GIESSE
TYMAN group

GENERAL TECHNICAL CATALOGUE



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Treatments and finishes

Base/Neutral

Neutral finish (code 000) means all products without a finish that cannot be subsequently painted/oxidized.
ase finishes (codes 005-006) are surface treatments that Giesse applies to products that will subsequently be painted or anodised.
Base Painting (code 005) is a passivation treatment free from Chromium VI which permits retaining the surface characteristics suited for subsequent painting.
Base Painting is ideal for both powder and liquid painting. It is compatible with all pre-treatments that include an acid-etching cleaning phase.
Base Oxidation (code 006) is instead a barrelling treatment suitable for subsequent anodic oxidation.

Resins

Plastic polymers are all the products made of polyamide.

Anodised Elox

Anodised/Elox means all the products with an oxidized and/or electro-colour finish.
Oxidation is achievable solely on products made of extruded aluminium.

Painted

Painted means all the products that are painted in the in-house painting system, using only thermosetting powder paints that are non-toxic and harmless, therefore non-polluting and environmentally friendly (free of TGIC).

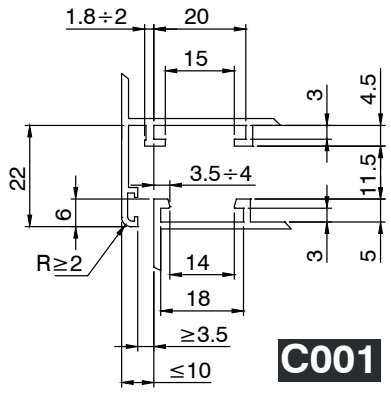
Trend/Gold/Brass

This group of finishes comprises Trend (prestige finishes for modern, stylish casements), gold oxidized, liquid painted or brass products.
Oxidation is achievable solely on products made of extruded aluminium.

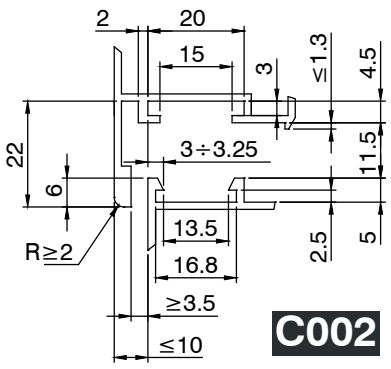
BASE/NEUTRAL	ANODISED/ELOX	PAINTED	TREND/GOLD/BRASS
000 raw/stainless steel/nylon 005 base primer 006 base oxidation 010 black nylon 501 matt black	020 silver 060 bronze 190 elettrogiesse 9	376 Giesse silver 379 metal grey 380 euro bronze 382 Giesse dark bronze 385 bronze Giesse 390 Euro Electro 5 410 pure white 9010 411 ~ Ral 9010 white, 25% Gloss 414 ~ Ral 1015 clear avory 415 ~ Ral 9003 bright white 420 ~ Ral 9001 cream white 430 ~ Ral 1013 pearl white 461 ~ Ral 3000 red 470 ~ Ral 9016 white 480 ~ Ral 6005 musk green 490 ~ Ral 8017 chocolate brown 500 ~ Ral 9005 black 510 mat green SFX 530 mat gray SFX 610 French white 9010 611 ~ Ral 9010 white 640 ~ Ral 8019 mat brown 641 ~ Ral 8019 mat brown 650 moss brown Grinz 660 moss green Grinz 670 mat brown SFX 680 ~ Ral 9002 white 700 ~ Ral 6029 Giesse Green 790 nickel white 960 ~ Ral 1247 dark brown 970 ~ Ral 9006 silver	040 gold 310 trend gold 325 trend nichelsat 348 trend BE nickelsat 349 liquid silver 350 trend cromosat 358 trend BE cromosat 375 antique silver 383 antique bronze

PLASTIC POLYMERS
542 pale grey 544 grey 560 white 590 black

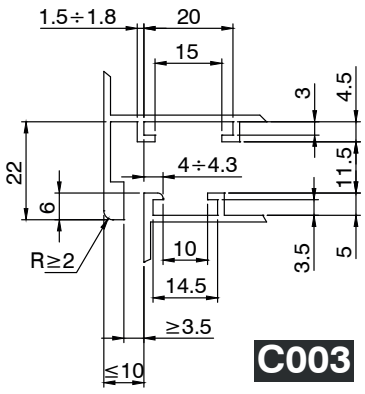
SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



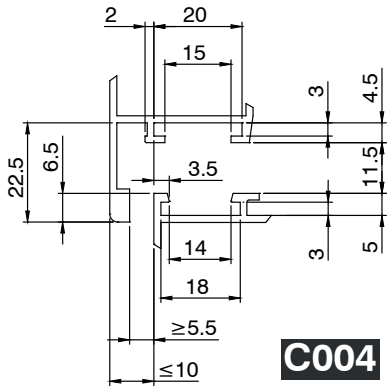
C001



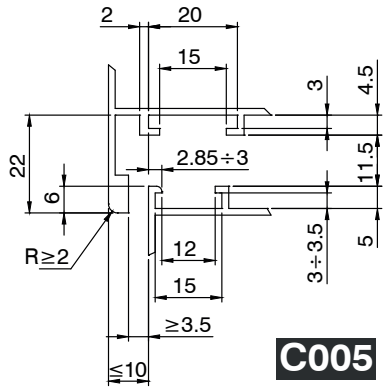
C002



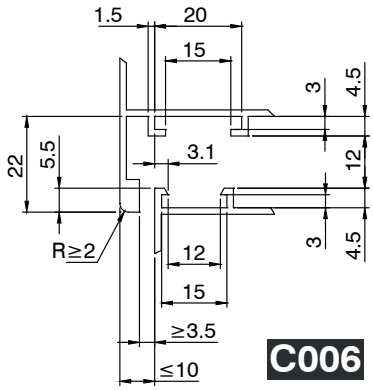
C003



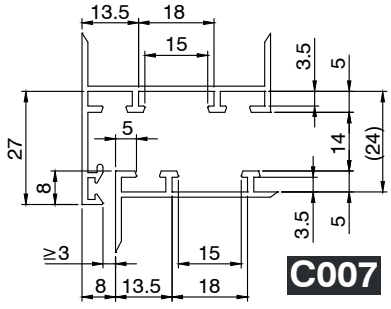
C004



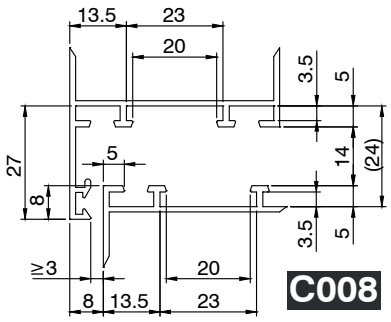
C005



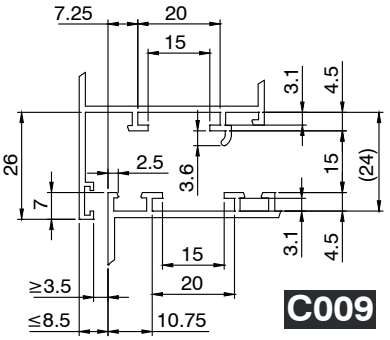
C006



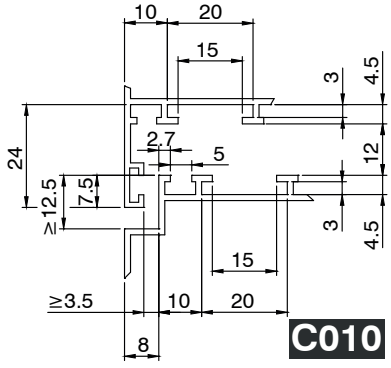
C007



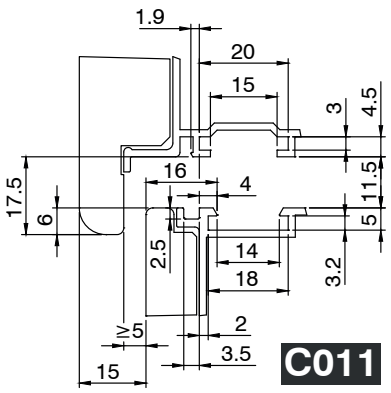
C008



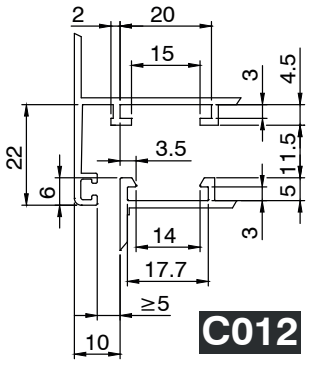
C009



C010

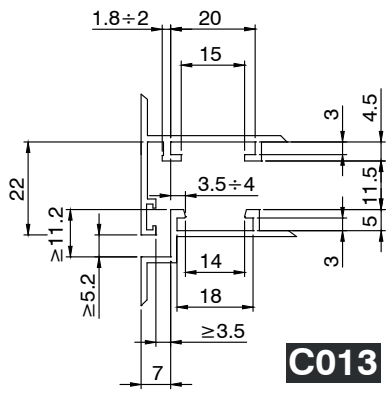


C011

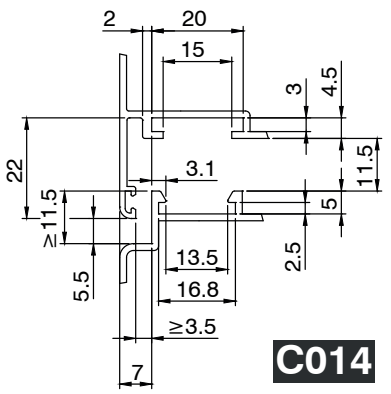


C012

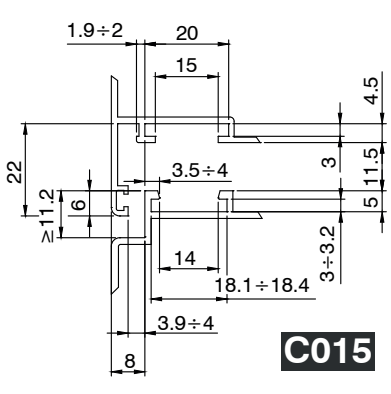
SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C



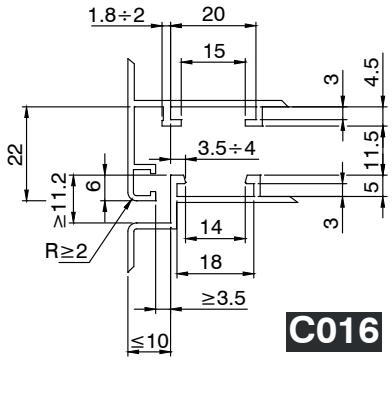
C013



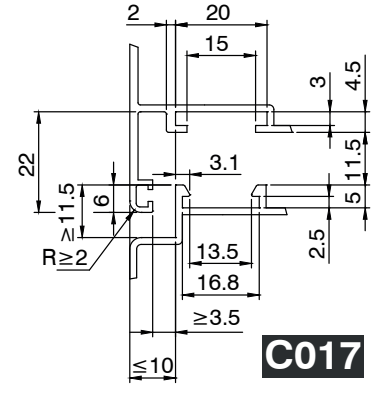
C014



C015



C016



C017

For an exact series/code match, see the on-line catalogue.

SIDE-HUNG TYPE PROFILE CROSS-SECTIONS C - COMPANIES - SERIES/SYSTEMS

C001
A.SER - CLASSICA
A.SER - MODENA
ADOPEN - AD 55
ADOPEN - AD 55T
AKFA GROUP - AKI65
ALCAR - AE0943
ALCAS - AW 50
ALCEMAR - MONACO
ALDOM - TB65LT
ALEXIA - ATLAS 65
ALEXIA - HT 54-72
ALLCO - EXPORT 45
ALLCO - EXPORT 50
ALLCO - EXPORT 50TT
ALLCO - K40 SORMONTO
ALPROF - T72
ALSISTEM - ECOSLIM 50 TT
ALSISTEM - ECOSLIM 62 TT
ALSISTEM - PLANET 45
ALSISTEM - PLANET 50 PLUS
ALSISTEM - PLANET 62 PLUS
ALSISTEM - PLANET 62 TT
ALSISTEM - PLANET 72 HT
ALSISTEM - PLANET 72 PLUS
ALUGOM - ALG 55 ESTANDAR
ALUGOM - ALG 65 OPTIMA
ALUGOM - ALG 65 OPTIMA HS
ALUGOM - ALG 75 MAXIMA
ALUGOM - ALG 75 MAXIMA HS
ALUMAFEL - UNNO
ALUMAFEL - UNNO-THERMIC
ALUMEC - SYNTHESIS 45
ALUMEC - SYNTHESIS 52
ALUMEC - SYNTHESIS-57
ALUMIL - M11500
ALUMIL - M9400
ALUMIL - S 77
ALUMIL - S60
ALUPROF - MB-70 HI
BURAK ALLUMINIUM - BM 72
CAPPELLO GROUP SPA - EK53TH
CAPPELLO GROUP SPA - EK58TH
CAPPELLO GROUP SPA - EK61TH
CORTIZO - COR 3500
CORTIZO - COR 60 HO
CORTIZO - COR 70 HO
CUHADAROGLU - DE 60
CUHADAROGLU - ST 70
CUHADAROGLU - ST 80
DOMAL HYDRO BUILDING SYSTEM IT - AVANTIS 70
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EX-TRATHERMIC 62
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAK-PA52
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAK-PA63
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S
DOMAL HYDRO BUILDING SYSTEM IT - PERFORMANCE 70
DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB 65
ENDER ALUMINYUM - EIN 55
ENDER ALUMINYUM - EIN 64
ENDER ALUMINYUM - EIN 74
ETA - START 410
ETA - START 470 TT
ETA - START 510
ETA - START 560 TT
ETA - START 640 TT
ETNALL - ET 45
EVEREST - 70000
EXTRUGAL - P45
FEAL - TERMO 65
FEAL - TERMO 85
FRESIA - PLANET 50 TT
GASTALDELLO - EL65LL-AS
GEAL - HP 600
GEAL - HP 600 ANTA STYLE
GEAL - HP 700
GEAL - HP 820
GEAL - HP SYSTEM SLIM
HILAL ALUMINYUM - H 55
INDINVEST - GOLD 400
INDINVEST - GOLD 450
INDINVEST - GOLD 450TT
INDINVEST - GOLD 500
INDINVEST - GOLD 600
INESPAL - A54 RPT
ITESAL - IT45 - RPT
ITESAL - IT61 - RPT
KAWNEER - ALCOA BRASIL - NG7
KRISTALL - KEEPER 61/68
MERIDIONALE ALLUMINIO - MA 72 HP
METRA - NC 65 STH HES
MEXALL - MX70
MV ABITHAL - ABITHAL-GREEN
ORIGINAL SYSTEM HYDRO BUILDING - R 72CE
PONZIO - WINDSTOP 45
PONZIO - WINDSTOP 45TT
PONZIO - WINDSTOP 55TT
PONZIO - WINDSTOP 65 THI
PONZIO - WS 75 AS
PROFILES - EKU 40
PROFILES - EKU 52TT
PROFILES - EKU 53
PROFILES - EKU 53TT
PROFILES - EKU 64TT
PROFILES - EKU 66TT
PROFILES - EKU 72TT
Q SYSTEM - Q57
QALEX - POLAR 47
SISTEM ALUMINYUM - W55 SERIES W1
TECHNAL - UNNO THERMIC
TECNO FORNITURE - PR50
TECNO FORNITURE - PR50 TT
TECNO FORNITURE - PR65 TT
TGP SISTEMI - TGP 45
TGP SISTEMI - TGP TH 52
TGP SISTEMI - TGP TH 60
TGP SISTEMI - TGP TH 68
TOMA - ATLANTIS 45
TOMA - ATLANTIS 55TT
TOMA - ATLANTIS 68TT
TOMA - TIERRE 640TH
TWIN SYSTEM - CX 600
TWIN SYSTEM - CX 650
TWIN SYSTEM - CX 700
ULUSAN - AW 50
ULUSAN - AWT 58
ULUSAN - AWT 64

C002
GIUGNI - GIUGNI TT
METRA - NC 50 STH
METRA - NC 50I
METRA - NC 55I
METRA - NC 65 STH
METRA - NC 72 STH

C003
ALUK - REVA 54
GUTMANN - S70
HEROAL - 110 ES
INSTALLUX - ESPACE 40
INSTALLUX - ESPACE 50
INSTALLUX - ESPACE 50TH
RESCARA INTERNATIONAL - P69
REYNAERS - CS 45 PA
REYNAERS - XS50
REYNAERS - XS68

C004
INDINVEST - PLATHINA 69
INDINVEST - PLATHINA 75

C005
ALUMAFEL - FORMA
ALUMAFEL - FORMA-THERMIC

C006
GULF EXTRUSION - 45 mm GULF
TECHNAL - FC

C007
ETA - ER 670
ETA - ER 730
ETA - ER 750 TT
ETNALL - TT 50
GASTALDELLO - NEWTEC 50
GASTALDELLO - NEWTEC 52
GASTALDELLO - NEWTEC 60
GASTALDELLO - NEWTEC 65
GASTALDELLO - NEWTEC 68
GASTALDELLO - NT 65
ORIGINAL SYSTEM HYDRO BUILDING - R 40
ORIGINAL SYSTEM HYDRO BUILDING - R 50TT
ORIGINAL SYSTEM HYDRO BUILDING - R 62TT
ORIGINAL SYSTEM HYDRO BUILDING - R 72TT
ORIGINAL SYSTEM HYDRO BUILDING - R 85TT
PONZIO - NEWTEC 50
PONZIO - NEWTEC 50 PERSIANE
PONZIO - NEWTEC 52
PONZIO - NEWTEC 60
PONZIO - NEWTEC 65
PONZIO - NEWTEC 68
TECNO FORNITURE - PR58
TECNO FORNITURE - PR66 TT
TOMA - RS 67TT
TWIN SYSTEM - RX 450
TWIN SYSTEM - RX 600
TWIN SYSTEM - RX 700
TWIN SYSTEM - RX 700 HP

C008
ORIGINAL SYSTEM HYDRO BUILDING - R 50
ORIGINAL SYSTEM HYDRO BUILDING - R 60TT

C009
ALLCO - ALL.CO 5S
ALLCO - ALLCO 5S TT
ALLCO - NEW AGE

C010
ETNALL - ET 40
ETNALL - ET 43
METRA - NUOVO NC40S
MV ABITHAL - ABITHAL POINT
PROFILATI - PE 40 SISTEMA1
PROFILATI - PE 50 SISTEMA1
PROFILATI - PE 58TT SORMONTO

C011
PROFILES - THERMOLEGNO

C012
DOMAL HYDRO BUILDING SYSTEM IT - AVANTIS 55

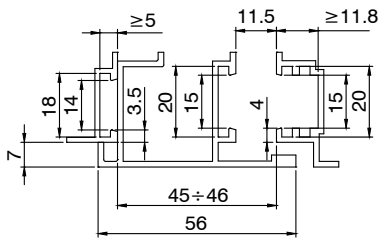
C013
ALUAR - A30-NEW DOORS
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EX-TRATHERMIC 62
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAK-PA52
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAK-PA63
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S
DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG
ETNALL - ET 45

C015
INDINVEST - GOLD 400
INDINVEST - GOLD450
INDINVEST - GOLD450 TT
INDINVEST - GOLD500 TT
PROFILES - EKU 53TT
PROFILES - EKU 60TT
PROFILES - EKU 80TT
TOMA - ATLANTIS 45 COMPLANARE
TOMA - ATLANTIS 55TT
TOMA - ATLANTIS 68TT

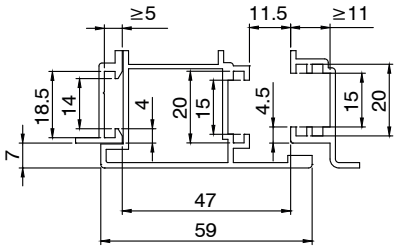
C016
ALLCO - EXPORT 51TT
DOMAL HYDRO BUILDING SYSTEM IT - TOP TB 65
ETA - START 410
ETA - START 470 TT
ETA - START 510

C017
METRA - NC 50 I
METRA - NC 50 STH
METRA - NC 65 STH
METRA - NC 72 STH

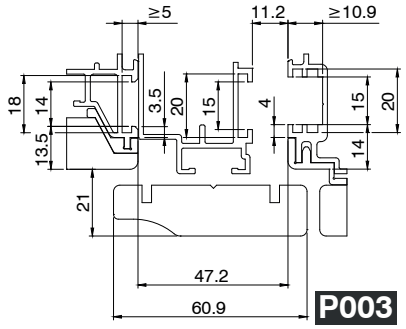
PIVOTING WINDOW TYPE PROFILE CROSS-SECTIONS P



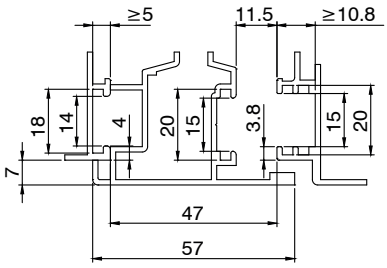
P001



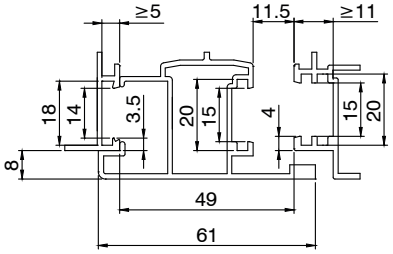
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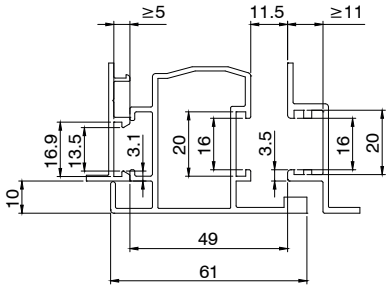
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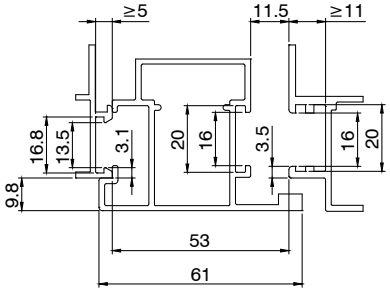
P004



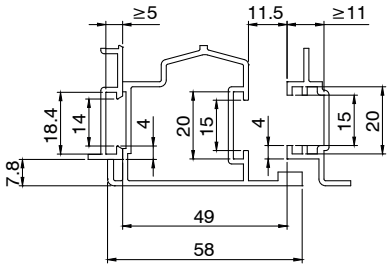
P005



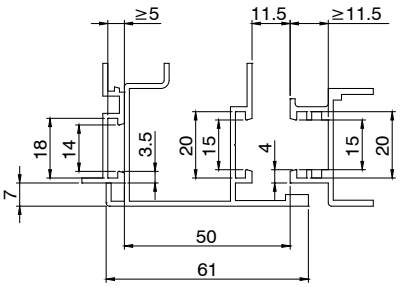
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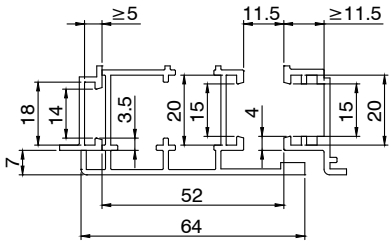
P007



P008



P009



P010

For an exact series/code match, see the on-line catalogue.

PIVOTING WINDOW TYPE PROFILE CROSS-SECTIONS P - COMPANIES - SERIES/SYSTEMS

P001
DOMAL HYDRO BUILDING SYSTEM IT - DOMAL EXTRATHERMIC 62
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAK-PA52
DOMAL HYDRO BUILDING SYSTEM IT - STOPPER PG

P002
ALLCO - EXPORT 45
ALLCO - EXPORT 50
ALLCO - EXPORT 50 TT
MERIDIONALE ALLUMINIO - MA 72 HP
PONZIO - WINDSTOP 55 TT

P004
MV ABITHAL - ABITHAL-GREEN
MV ABITHAL - EURO KEEPER 45

P005
INDINVEST - GOLD 400
INDINVEST - GOLD 450
INDINVEST - GOLD 450 TT
INDINVEST - GOLD 500
INDINVEST - GOLD 502 HC
INDINVEST - GOLD 600
TOMA - TIERRE 550 TH

P006
ALUMIL - MU 11500
METRA - NC 50 STH
METRA - NC 50 I

P007
METRA - NC 65 STH

P008
PROFILES - EKU 53
PROFILES - EKU 53 TT
PROFILES - EKU 64 TT
PROFILATI - EKU WOOD 72TT

P009
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAKPA63
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBREAKPA70S

P010
DOMAL HYDRO BUILDING SYSTEM IT - DOMALBRIGHT PA70S

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
00094U	3																											
00095U	3																											
00099U	3				■																							
00100U	3																											
00103U	5																											
00112N	26	■	■	■										■	■				■	■								
00115U	5	■	■											■		■	■		■	■		■	■			■	■	■
00119	5	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■		
001201	3	■	■											■		■	■		■	■		■	■			■	■	■
001202	3	■	■											■		■	■		■			■				■	■	■
00120U	3	■	■											■		■	■		■	■		■	■	■		■	■	■
00120U	396	■	■											■		■	■		■	■		■	■	■		■	■	■
001211	3	■	■											■			■		■	■							■	
001212	3	■	■											■			■		■	■							■	
00121U	3	■	■											■			■		■	■							■	
001221	3			■											■			■						■	■			
001222	3			■											■			■						■	■			
00122U	3			■											■			■						■	■			
001231	3			■											■													
001232	3			■											■													
00123U	3			■											■													
00126U	3									■																		
00127U	3									■																		
001281	3								■																			
001282	3								■																			
00128U	3								■																			
00128U	396								■																			
00129U	3								■																			
00130U	3																											
001341	3										■																	
001342	3										■																	
00134U	3										■																	
00135U	3										■																	
00136U	3				■																							
00137U	3																											
00142U	3																											
001431	3	■	■											■		■	■			■			■			■		
001432	3	■	■											■		■	■			■			■			■		
00143U	3	■	■											■		■	■			■			■			■		
0014411	3	■	■	■										■	■	■	■	■	■	■		■	■		■	■		
0014421	3	■	■	■										■	■	■	■	■	■	■		■	■		■	■		
00144N	3	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■		
00147N	3																											
00149U	7	■	■																									
00150U	7	■	■											■		■	■		■	■		■	■	■		■	■	
00151U	7	■	■											■					■	■							■	
00157U	7									■																		
00171	5																											
00180U	16																											
00227U	3																											
00240U	3											■																
00258U	3																											
002591	3																											
002592	3																											
00259U	3																											
002701	3																											
002702	3																											
00278U	3																											
00279U	3																											
002811	3																											
002812	3																											
00281U	3																											
002851	4																											
002852	4																											
00285U	4																											
00305	294			■											■													
00313	294	■	■											■		■			■				■			■		
00321010	297			■											■													
00322010	297																											
00323010	297			■						■								■						■				

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
00325	298																											
00326	298																											
00330	296	■	■								■									■								
00332	295																											
00334	298																											
00335	296																											
00336	295								■	■																		
00337	295								■	■																		
00338	295								■																			
00339	295								■																			
00340	295	■	■																									
00344	295	■	■											■		■			■				■				■	
00348	295									■																		
00349	295	■	■							■																		
00350	298	■	■						■																			
00351X	298	■	■																									
00352	298																											
00353	298																											
00355	298																											
00356	298	■	■																									
00357	295	■	■											■					■									
00360	301	■	■																	■								
00362	301																											
00363	301										■																	
00365	301	■	■													■							■					
00366	301	■	■													■							■					
00367	294	■	■													■							■					
00380	294																											
00397	299	■	■													■							■					
00398	299																											
00420	305																											
00425	305	■	■																	■								
00428N	305	■	■									■				■	■						■					
00429	305	■	■																									
00430N	305																											
00431	305	■	■									■														■		
00432	305	■	■																	■								
00443	305	■	■																				■					
00471	302			■											■													
00474	305								■																			
00475N	305								■																			
00476	303								■																			
00477	303									■																		
00479	305									■																		
00481	303																											
00484	305																											
00485	305										■																	
00486	305								■																			
00487	305									■																		
005271	4	■	■				■																					
005272	4	■	■				■																					
00527U	4	■	■				■																					
00529U	4	■	■				■							■					■	■								
00561	22	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
005641	4								■	■																		
005642	4								■	■																		
00564U	4								■	■																		
00591	22	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00598N	22	■	■											■		■	■		■				■	■		■		
00598N	396	■	■											■		■	■		■				■	■		■		
00599	22	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00599	396	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00600N	18	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00600N	396	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00600N	402	■	■	■										■	■	■	■	■	■	■		■	■	■	■	■	■	■
00601N	18	■	■											■					■								■	
00602N	18								■																			
00602N	396								■																			
00602N	402								■																			
00603N	18								■																			

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
00604N	18									■																		
00605N	18									■																		
00606N	18										■																	
00607N	18	■	■													■							■			■		
00609N	18				■		■																					
00612U	4							■																				
00681	19	■	■	■			■							■	■	■	■	■	■	■		■	■	■	■	■	■	
00681	396	■	■	■			■							■	■	■	■	■	■	■		■	■	■	■	■	■	
00682	19								■																			
00682	396								■																			
00684	19	■	■	■										■		■		■	■	■			■		■	■	■	
00685	19	■	■											■			■		■								■	■
00687	19									■																		
00688	19										■																	
00689	19																											
00690	19								■																			
00700	20	■	■											■		■	■		■	■		■	■	■		■	■	
00700	396	■	■											■		■	■		■	■		■	■	■		■	■	
00701	20								■																			
00701	396								■																			
00702	20																											
00703	20	■	■											■		■	■		■								■	■
00725	53	■	■					■								■	■			■			■					
00726	54								■																			
00750	50																											
00753	50																											
00755	51																											
00756	52																											
00757	50																											
00763	50																											
0078902	613																											
00801	563																											
0080201	613																											
00806	561																											
0083101	585																											
00859	564																											
0086401	314																											
0087302	584																											
00889N	347																											
00890N	347																											
00925N	24	■	■																									
00926N	24																											
00927N	24																											
00929N	24																											
00930	24																											
00940	25	■	■																									
00945	418																											
00946	419																											
00947	418	■	■	■		■	■							■	■	■		■										
00947	461	■	■	■		■	■							■	■	■		■										
00947	472	■	■	■		■	■							■	■	■		■										
00947	480	■	■	■		■	■							■	■	■		■										
00947	490	■	■	■		■	■							■	■	■		■										
00947	503	■	■	■		■	■							■	■	■		■										
00947	513	■	■	■		■	■							■	■	■		■										
00948	138	■	■	■	■	■	■						■	■	■	■	■	■										
00949	140	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
00949	407	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
00949	411	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
00949	415	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
00957	74																											
00958	76																											
00959	74																											
00959	401																											
00960	76	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
00960	358	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
00960	367	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
00960	375	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
00960	385	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
00961	76																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																	PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
00961	395																											
00962	76																											
0099611	134	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0099621	134	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
00997	132	■	■	■					■									■		■				■	■			
00998	132																											
01000U	79	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01001	85	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01002	81	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01004	116	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■	■	
01005	98																											
01006	116	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■	■	
01007	117	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01008	79	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01009	116	■	■											■					■							■		
01011	91	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01019	91	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0102001	138	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0102001	407	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0102001	411	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0102001	415	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0102101	138											■																
0102301	138	■	■													■							■					
01024U	89	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01025K	138	■	■	■			■							■	■	■		■	■	■			■	■	■	■		■
01026K	138	■	■											■		■			■									
01029K	140	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0103001	140											■																
01037	83	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01038	93	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01039	89	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01039	401	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01056	118	■	■	■					■		■			■	■	■		■	■	■		■	■			■	■	
01057R	83	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01058R	93	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0106101	140	■	■																									
0106101	411	■	■																									
0106101	415	■	■																									
01062	140								■																			
01063	188	■	■						■											■								
01064	95																											
01065	97																											
01076	95	■	■	■	■															■				■				
01078	100																											
01079	100																											
01083	95	■	■	■	■															■				■				
01084	95	■	■	■	■															■				■				
01084	401	■	■	■	■															■				■				
0108501	97	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0108501	358	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0108501	367	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0108501	375	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0108501	385	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
01086	97	■	■	■	■															■				■				
01086	395	■	■	■	■															■				■				
01087	97	■	■																									
01090K	79	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01091K	85	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01092K	81	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01094	79	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01094	401	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01108	79	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01109	79	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01111	100																											
01114	116																											
01116	116																											
01120	89	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01121	89	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01123	119																											
01125001	188	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■

		SIDE-HUNG CROSS-SECTIONS TYPE																	PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
01126	188	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
01127	425																											
01127	434																											
01128	425																											
01128	434																											
01129	113	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
01129	188	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
01129	425	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
01129	434	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
01130	85	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01131	119	■	■																	■								
01132	119	■	■											■														
01137	119	■	■											■					■									
01138	113	■	■	■	■	■	■	■	■	■	■			■	■	■	■	■	■	■		■	■	■	■	■	■	■
0114901	91	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01150001	188	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01151001	188	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01154001	108	■	■																	■								
01155001	108	■	■											■														
01157001	108	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01159001	108	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01160	446	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01161	446	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01162	446	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01163N	111	■	■											■														
01164N	108	■	■		■												■											
01165N	108																											
01166N	108	■	■											■		■				■						■		
011691	188																											
011692	188																											
011701	114																											
011702	114																											
01171	425																											
01171	434																											
01172	425																											
01172	434																											
01173N	108	■	■						■								■										■	
01174K	394	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01175K	394	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01175K	400	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01181K	291								■																			
01183K	290																											
01184K	291	■	■											■		■	■		■	■		■	■			■	■	■
01185K	291	■	■		■																							
01187	291	■	■											■		■	■		■	■		■	■			■	■	■
01188	291																											
01190	138								■																			
0119102	91	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0119102	358	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0119102	367	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0119102	375	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
0119102	385	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
01192	91	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01192	395	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01194	91	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01196	97																											
01207	394																											
01207	400																											
01209	91																											
01210	394																											
01213	283				■																							
01214	283				■																							
01215	280								■																			
01216	271								■																			
01220	651																											
01221	652																											
01224	301																											
01228	306	■	■																									
01230	188	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01239	674																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
01261	316																											
01266K	283																											
01267K	283	■	■		■																							
01268K	283																											
01269K	283				■																							
01274	653																											
01275	654																											
0127901	280																											
01280	283				■																							
01292	451	■	■						■	■				■												■		
01293	451	■	■	■					■		■			■	■	■		■					■					
01294N	449	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01295N	449	■	■	■					■		■			■	■	■		■	■				■			■		
01296	451	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01297	447	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01298	447	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01299	494																											
01299	516																											
01299	550																											
01300	447	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
01304	447	■	■	■					■	■	■			■	■	■			■			■	■			■		
0130501	280																											
0130601	280																											
0130701	280										■																	
01308	281																											
01314K	280	■	■	■								■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
0131501	280						■																					
0131601	280																											
01317	280								■	■																		
01317K	280								■																			
01318K	280								■	■																		
01319K	274								■																			
01320	266								■	■																		
01322	280	■	■	■										■	■	■	■	■	■	■		■	■	■		■	■	
01322K	280	■	■																	■								
0132501	281	■	■	■					■						■	■		■				■		■				
01326	266	■	■	■					■					■	■	■		■	■	■		■	■	■		■	■	
01328	280																											
01329	280										■																	
0133001	278										■																	
01331	280																											
01332	274																											
01333	274	■	■	■		■						■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
0133801	280																											
01339	280	■	■	■	■	■		■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01340K	280						■																					
01340N	280						■																					
01342K	280				■		■																					
01343K	280	■	■	■										■		■		■		■				■		■		
01344K	280								■																			
01345K	280									■																		
01347K	280	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01347K	397	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01347K	403	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01347K	408	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01347K	412	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01347K	416	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
01348K	280	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01348K	408	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01348K	412	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01348K	416	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01349K	280	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01349K	412	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01349K	416	■	■	■	■	■	■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
01350K	287	■	■	■	■		■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
01352K	274	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
01353K	280	■	■	■	■		■	■	■			■		■	■	■	■	■	■	■		■	■	■		■	■	■
01355K	317	■	■		■											■												
01356K	274																											
0135701	287								■	■																		

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
01362K	280	■	■	■	■									■		■	■	■		■			■	■	■	■		
01373	275																											
01391	287								■																			
01393	280																											
01394	275																											
01395	275	■	■																					■				
01396	280																											
01398	280																											
01399	275	■	■														■							■				
01400	280																											
01401	101	■	■						■											■								
01410	288				■																							
01416	58	■	■													■	■						■					
01420	56	■	■											■					■									
01421	56	■	■																	■								
01422	56																				■							
01424	56	■	■													■							■					
01427	56			■														■							■			
01428	56	■	■													■										■		
01429	56	■	■											■					■								■	
01439	56																											
01441	58																		■									
01443	58	■	■																	■								
01448	58																											
01449	58								■	■																		
01459	56	■	■	■										■		■		■	■	■	■		■	■	■	■	■	■
01464	56	■	■													■												
01640N	199	■	■	■					■	■					■											■		
01641N	199			■														■						■				
01642N	199	■	■	■			■		■					■	■	■	■	■	■	■			■	■		■		
01650N	198	■	■	■					■	■					■											■		
01651N	198			■														■						■				
01652N	198	■	■	■			■		■					■	■	■	■	■	■	■			■	■		■		
01700	354																											
01701N	196	■	■	■	■						■			■	■	■	■	■	■	■		■	■	■	■	■	■	
01704	195	■	■	■	■	■	■							■	■	■	■	■	■	■		■	■	■		■	■	
0170601	195								■	■																		
0170801	195	■	■	■			■		■	■				■	■	■	■	■	■	■		■	■	■		■	■	
01711	197																											
01717	317																											
01801	334																											
01950	338						■																					
01951	338																											
01952	338	■	■													■							■					
01954	338	■	■	■							■			■		■	■	■	■	■		■	■	■		■	■	
01955	338	■	■	■							■			■				■	■	■		■		■		■		
01956	338								■	■																		
01959	338																											
01960	338																											
01961	338																											
01969001	346																											
01971	335	■	■						■								■										■	
01972	335									■																		
01974	335	■	■		■						■																	
01976001	346																											
01977001	346																											
01978001	346																											
01979001	346																											
01984	443																											
01985	443																											
01986	443																											
01987	442																											
01988	443																											
0199002	343																											
0199102	343																											
02000	427																											
020021	427																											
020022	427																											
02003	430																											
02003	439																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
02006K	336																											
02009	435																											
02011	249			■											■			■						■	■			
02016	148																											
02025	102																											
02026	102																											
02027	102																											
02028	102																											
02029	102																											
02030K	350	■	■	■			■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02030K	463	■	■	■			■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02030K	482	■	■	■			■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02031K	350																											
02034K	350								■																			
02035	350									■																		
02036	342																											
02037	342																											
02038	351																											
02039	351																											
02040K	353	■	■	■	■	■						■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02041K	353	■	■	■	■	■						■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02042K	353								■																			
02043K	353								■																			
0204401	353									■																		
0204501	353									■																		
0204601	353										■																	
0204701	353										■																	
0204801	353																											
0204901	353																											
02050	102																											
0205101	17																											
0205201	353																											
0205301	353																											
02056	436																											
02058	436																											
02059	436																											
02061	436																											
02064	429																											
02064	436																											
02065	429																											
02065	436																											
02066	437																											
02067	438																											
02070	428																											
02071	255			■											■			■						■	■			
02072	255	■	■			■								■		■	■		■	■			■			■	■	■
02073	255										■																	
02074	255	■	■				■					■		■		■	■							■				
02075	255								■																			
02079	148																											
02080	258	■	■	■					■					■	■	■		■	■					■		■	■	
02081	258	■	■	■					■					■	■	■		■	■					■		■	■	
02082	258	■	■	■					■					■	■	■		■	■					■		■	■	
02083	258	■	■	■					■					■	■	■		■	■					■		■	■	
02085	267								■																			
02101	264																											
02102	264																											
02106N	241				■																							
02108	241	■	■									■		■		■			■	■		■	■			■		
02108K	241	■	■									■		■		■	■		■	■		■	■			■		
02111K	241	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■		
02111K	412	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■		
02111K	416	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■		
02111N	241	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■		
02112	241	■	■	■											■			■				■		■				
02112K	241	■	■	■											■			■				■		■				
02113	245	■	■	■	■				■		■	■		■	■	■	■	■	■	■		■	■	■		■	■	
02114	269	■	■	■	■						■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
02114K	269	■	■	■	■						■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
02114K	408	■	■	■	■						■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
02114K	412	■	■	■	■						■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
02114K	416	■	■	■	■						■	■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
02119	121																											
02121	241																											
02125	241	■	■																									
02125K	241	■	■																									
02129	290																											
02131	241								■																			
02131K	241								■																			
02132	241									■																		
02133	241																											
02134	241																											
02135	448	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
02136	448	■	■						■	■	■			■					■							■		
02138K	241																											
02140	269																											
02141	269								■																			
02141K	269								■																			
02142	269									■																		
02143N	268	■	■								■			■						■								
02144	266	■	■						■							■								■				
02145N	268	■	■			■								■		■	■		■	■		■	■			■	■	■
02146	269									■																		
02147	269																											
02148	615																											
02149	615																											
02150	262	■	■	■					■						■			■										
02151	262	■	■	■					■						■			■										
02153	244	■	■									■		■					■	■		■				■		
02156	249	■	■		■							■		■		■	■		■	■		■	■			■	■	
02158	262	■	■	■					■						■			■				■						
02159	266	■	■	■					■		■	■		■	■	■		■				■	■	■		■		
02161	269	■	■													■										■		
02162	269	■	■													■										■		
02163	269	■	■													■										■		
02164	241	■	■													■							■			■		
02165	241	■	■								■			■		■	■		■			■				■		
02165K	241	■	■								■			■		■	■		■			■				■		
02166K	246			■											■			■						■	■			
02167K	267	■	■	■	■						■	■		■		■		■	■	■		■	■			■	■	
02168K	246	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■	■	
02168K	412	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■	■	
02168K	416	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■		■	■	
02170	260	■	■	■					■						■	■		■										
02177K	255	■	■		■		■					■		■		■			■	■		■	■			■	■	
02178	249	■	■		■							■		■		■	■		■	■		■	■			■	■	
02179	250				■																							
02180	263	■	■	■	■		■	■	■	■		■		■	■	■		■	■	■		■	■	■		■	■	
02181	263	■	■	■	■		■	■	■	■	■	■		■	■	■		■	■	■		■	■	■		■	■	
02182	263	■	■	■	■		■	■	■	■	■	■		■	■	■		■	■	■		■	■	■		■	■	
02183	266	■	■	■	■		■	■	■	■	■	■		■	■	■		■	■	■		■	■	■		■	■	
02185	260																											
02186K	251	■	■											■					■									
02187	271	■	■	■	■		■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02187K	271	■	■	■	■		■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02188K	267	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■	■	■	■	
02188K	408	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■	■	■	■	
02188K	412	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■	■	■	■	
02188K	416	■	■	■	■						■	■		■		■	■	■	■	■		■	■	■	■	■	■	
02189K	249	■	■	■	■		■					■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02191K	249	■	■		■							■		■		■	■		■	■		■	■	■		■	■	
0219301	249																											
02195K	249			■											■			■						■	■			
02196	317	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
02197K	292	■	■																								■	
02198	257								■	■																		
02198K	257								■																			
02199	257	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■		
02215K	276																											
02223K	292	■	■													■				■			■	■				

CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
02229K	286	■	■	■	■			■						■		■	■		■	■	■	■	■	■		■	■	
0223001	286	■	■	■			■		■			■		■	■	■	■	■	■	■		■	■	■		■	■	
02234K	505	■	■	■	■									■		■	■	■	■	■	■		■	■			■	
02235	120	■	■	■	■		■	■	■	■	■			■	■	■	■	■	■	■		■	■	■		■	■	
02235	401	■	■	■	■		■	■	■	■	■			■	■	■	■	■	■	■		■	■	■		■	■	
02236	121	■	■		■									■		■							■				■	
02237	193	■	■	■			■		■					■	■											■	■	
02240	193	■	■	■										■	■	■			■			■	■			■		
02241	193	■	■	■										■	■	■			■			■	■			■		
02243	193	■	■	■										■	■	■			■	■		■	■			■		
02245	193	■	■	■			■		■						■											■		
02246	193	■	■	■										■	■	■			■			■	■			■		
02248	125																											
02250	125	■	■	■			■		■						■											■		
02251K	110	■	■						■					■					■									■
02251K	126	■	■						■					■					■									■
02252K	110	■	■				■									■				■		■				■		
02252K	126	■	■				■									■				■		■				■		
02253K	110	■	■	■										■	■	■							■			■		
02253K	126	■	■	■										■	■	■							■			■		
02254K	110	■	■																	■								
02254K	126	■	■																	■								
02255K	110	■	■						■											■						■		
02255K	126	■	■						■											■						■		
02256K	290																											
02256N	290																											
02257	290																											
02258K	290																											
02259	190	■	■																	■								
02260	125	■	■													■							■					
02261	125	■	■													■							■					
02262	121																											
02270	290																											
02270K	290																											
02271	290																											
02282	316	■	■																									
02290	646																											
02296	125	■	■											■					■									
02301	312																											
02304	655																											
02307	121	■	■	■							■			■	■	■		■	■	■		■	■	■		■		
02309	317										■																	
02309	412										■																	
02309	416										■																	
02314	316	■	■	■	■									■	■	■		■	■				■	■				
02315K	274	■	■	■			■							■	■	■		■	■	■		■	■	■		■		
02317	195			■														■						■				
02319	307	■	■																	■								
02320	274																											
02326	308																											
02328	316	■	■									■				■							■			■		
02331	319																											
02332	319																											
02336	317	■	■	■	■		■		■			■		■	■	■	■	■	■	■		■	■	■		■	■	
02336	412	■	■	■	■		■		■			■		■	■	■	■	■	■	■		■	■	■		■	■	
02336	416	■	■	■	■		■		■			■		■	■	■	■	■	■	■		■	■	■		■	■	
02337	280	■	■	■	■									■	■	■		■	■	■		■	■	■		■	■	
02340	262	■	■	■					■						■			■				■						
02341	596																											
02352	317	■	■	■	■		■	■				■		■	■	■		■	■	■		■	■	■		■	■	
02353	125								■		■																	
02354	316								■	■																		
02357	316	■	■		■									■		■			■			■	■					
02359	316																											
02360	316	■	■						■	■																		
02365	309								■	■																		
02366	317								■	■																		
02367	672								■	■																		
02368	301	■	■						■	■																		
02377	125								■		■																	

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																	PIVOTING CROSS-SECTIONS TYPE								
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
02379	125	■	■																			■						
02380	301																											
02382N	125	■	■	■			■				■			■	■	■		■	■	■		■	■			■	■	
02383	125																											
02385	121								■																			
02385K	121								■																			
02386	121									■																		
02387	121	■	■	■	■		■	■			■			■	■	■	■	■	■	■		■	■	■	■	■	■	
02387K	121	■	■	■	■		■	■			■			■	■	■	■	■	■	■		■	■	■	■	■	■	
02390	317																											
02394	313																											
02403	190																											
02407	190																											
02408	190	■	■		■												■											
02414	151	■	■																									
02415	128	■	■	■					■									■		■				■	■			
02416	128																											
02422	154																											
0243001	157																											
02431	157	■	■																									
02456	155	■	■						■					■		■			■	■		■	■			■	■	
02458	150																											
02473N	181																											
02474N	181																											
02476	130	■	■																									
02481N	179																											
02482N	179																											
02483	179																											
02485	131	■	■	■					■							■				■						■		
02486	131	■	■	■					■							■		■		■				■		■		
02487	181																											
02491	135	■	■														■			■								
0249201	136																											
02494	136																											
02500	136																											
02505	181	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■	■	
02518N	181																											
02521N	181																											
02522N	179																											
02541N	181																											
02542N	179																											
02543	182								■																			
02544	182								■																			
02545	182	■	■	■					■					■	■	■		■	■	■		■	■			■	■	
02546	182	■	■	■					■					■	■	■		■	■	■		■	■			■	■	
02547	182	■	■	■					■					■	■	■		■	■	■		■	■			■	■	
02548	182	■	■	■					■					■	■	■		■	■	■		■	■			■	■	
02553N	181																											
02558N	181																											
02559N	181																											
02560N	179																											
02563	152	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■	■	
02571K	290																											
02574K	290																											
02577K	290																											
02578K	290																											
02579K	290								■																			
02581K	242																											
02582K	242																											
02585K	247																											
02587K	247																											
02589K	290																											
0259701	603																											
02603	201	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02604	201	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02609	200	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■	■	
02610	200	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02611	200	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02612	621																											
02616	609																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
02632	567																											
02633	561																											
02636	567																											
02638	567																											
02668	203	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02669	203	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02670	203	■	■	■			■		■	■	■			■	■	■		■	■	■		■	■			■		
02675	607																											
02676	607																											
02677	607																											
02679	607																											
02682	607																											
02691	605																											
02701	617																											
0272001	635																											
0272101	635																											
0272201	635																											
0272301	635																											
0272401	635																											
0272501	635																											
0272601	635																											
0272701	635																											
0272801	635																											
02742	256	■	■			■								■		■	■		■	■			■			■	■	■
02743	256										■																	
02744	256	■	■				■					■		■		■	■							■				
02745	256								■																			
02760	642																											
02761	642																											
02762	130	■	■						■																			
02762	641	■	■						■																			
02763	130																											
02763	641																											
02764	643																											
02765	644																											
02770	640																											
02792	149	■	■																									
02800K	350																											
0288201	574																											
0289201	574																											
0289401	582																											
0289501	586																											
02914	561																											
02915	563																											
02966N	592																											
02967V	593																											
0297802	580																											
0298201	572																											
02985	563																											
0298802	580																											
0299101	611																											
0299202	572																											
02996	593																											
02997	621																											
02998	621																											
03000	587	■	■																									
03018N	600																											
03041	570																											
03043	598																											
0304911	134	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
0304921	134	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
03050	598																											
03055	599																											
03056	191																											
03058	615																											
03061	673																											
03062	673																											
03063L	615																											
03064	598																											
03068	615																											

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
03069L	615																											
03079	567																											
03082	615																											
03083	615																											
03084	615																											
03085	615																											
03087	615																											
03088	615																											
03088L	615																											
03092	615																											
03098	615																											
03104	561																											
03105	563																											
03106	645																											
03108	645																											
03114	645																											
03115	567																											
03116	563																											
03118	563																											
03119X	567																											
03120	563																											
03121	569																											
03122	564																											
03123	567																											
03124	656																											
03125	563																											
03132	567																											
03133	563																											
03136N	563																											
03137N	563	■	■																							■		
03138	567																											
03139	563																											
03140	657																											
03141N	563																											
03143	658																											
03144	659																											
03145	647																											
03146N	561																											
03147N	561																											
03148N	561	■	■														■											
03149	316	■	■																									
03150	660																											
03151N	569																											
0315202	565																											
03155	674																											
03156	672																											
03166	661																											
03172	618																											
03177	618																											
03178	561																											
03183	563																											
03185N	662																											
03194	663																											
03195N	316	■	■																	■								
03196	672																											
03199X	648																											
03200	649																											
03203	318																											
03237	46	■	■	■	■	■	■		■	■				■	■	■	■	■	■			■	■	■	■	■		■
0323901	43	■	■	■					■					■	■	■	■		■				■					
0324001	43	■	■	■					■									■					■			■		
0324101	43	■	■	■	■				■									■						■			■	
0324201	43	■	■	■														■										
03280	452	■	■	■					■	■	■			■	■	■			■			■	■			■		
03288	448	■	■	■					■	■	■			■	■	■		■	■			■	■			■		
03289	563																											
03290	561																											
03291	563																											
03297	561																											
03298	563																											

CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
03314	664																											
03319	567																											
03324	561																											
03325	563																											
03326	608																											
0332701	608																											
0332801	608																											
0333001	603																											
0333101	603																											
0333301	603																											
03336	610																											
03336L	610																											
03337	609																											
03338	609																											
0334001	619																											
03345	619																											
03346	615																											
03351	588																											
03352	590																											
03353	589																											
03360V	600																											
03361V	602																											
03384	665																											
03389	609																											
03390	563																											
03391	567																											
03397	563																											
03398	561																											
03462	666																											
03463	301																											
03467	667																											
03471	563																											
03472	563																											
03473	561																											
03474	122																											
03474K	122																											
03475K	122	■	■	■	■				■					■		■	■			■			■	■		■		
03479	668																											
03482	621																											
03483	621																											
03485	669																											
03491	670																											
03507	671																											
03524N	271	■	■											■			■			■								
03525	271								■																			
03526N	271									■																		
03528	550	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
03529	569																											
03534	563																											
03535	463	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
03535	482	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
03536	72																											
03539	569																											
03546	66																											
03547	66																											
03556	567																											
03557	563																											
03733	621																											
03734	621																											
03900	47																											
03901	266																											
03930	608																											
03947	608																											
0395301	70	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
03954	71	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	461	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	472	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	480	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	490	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	503	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
0395501	513	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
0395501	548	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
03962	69	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
03963	68	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■	■	■	■	
03978	650																											
03985	608																											
04000	360	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04000	369	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04005	368	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04005	386	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04007	359	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04007	376	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04009	377	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04009	387	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04012	505	■	■	■												■	■	■					■			■		
04014K	494																											
04014K	505																											
04014K	516																											
04014K	550																											
04017K	270								■																			
04017K	531								■																			
04019K	270	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■		■	■	
04019K	397	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■		■	■	
04019K	494	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■		■	■	
04019K	505	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■		■	■	
04019K	516	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■		■	■	
04020K	270	■	■	■	■		■				■			■	■	■	■	■	■	■		■	■	■		■	■	■
04020K	494	■	■	■	■		■				■			■	■	■	■	■	■	■		■	■	■		■	■	■
04020K	505	■	■	■	■		■				■			■	■	■	■	■	■	■		■	■	■		■	■	■
04020K	516	■	■	■	■		■				■			■	■	■	■	■	■	■		■	■	■		■	■	■
04023K	270			■														■						■				
04023K	522			■														■						■				
04024K	463	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04024K	473	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04024K	482	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04024K	494	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04024K	505	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04024K	516	■	■	■	■									■	■	■	■	■	■	■		■	■	■		■	■	■
04026K	494	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■		■	■	
04026K	505	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■		■	■	
04026K	516	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■		■	■	
04026K	550	■	■	■	■		■	■						■	■	■		■	■	■		■	■	■		■	■	
04027K	274	■	■	■	■		■	■						■	■	■	■	■	■	■	■	■	■	■		■	■	■
04027K	403	■	■	■	■		■	■						■	■	■	■	■	■	■	■	■	■	■		■	■	■
04027K	408	■	■	■	■		■	■						■	■	■	■	■	■	■	■	■	■	■		■	■	■
04027K	412	■	■	■	■		■	■						■	■	■	■	■	■	■	■	■	■	■		■	■	■
04027K	416	■	■	■	■		■	■						■	■	■	■	■	■	■	■	■	■	■		■	■	■
04030K	274	■	■	■	■		■		■	■		■		■	■	■	■	■	■	■		■	■	■	■	■	■	■
04031K	285	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
0404101	285																											
04042K	274	■	■														■											
04045K	252	■	■																	■								
04046K	285	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	
04047K	277	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04048	397																											
04048	403																											
04049	274																											
04050	274																											
04052	275	■	■														■											
04054	275																											
04067	274																											
04070	194	■	■	■										■	■	■		■	■	■		■	■			■	■	
04071N	190	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■			■	■	
0407601	194										■																	
04080	190	■	■	■	■		■		■					■	■	■			■			■	■			■		
04082	144																											
04083	144	■	■														■			■								
04084	144	■	■																	■								
04085	127																											
04086	144																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
04087	144																											
04088	144	■	■																	■								
04089	146																											
04091	103																											
04091	109																											
04093	141	■	■																	■								
04094	141	■	■																	■								
04096	158	■	■																									
04097001	103																											
04097001	109																											
04098001	103	■	■																									
04098001	109	■	■																									
04099001	103	■	■		■									■		■	■			■						■	■	
04099001	109	■	■		■									■		■	■			■						■	■	
04104	103																											
04104	109																											
04105	103																											
04105	109																											
04106	144																											
04107	378	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04107	388	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04108	141	■	■																									
04109	621																											
04134	285																											
04143	144																											
04144	144																											
04145	144																											
04146	144																											
04147	144																											
04148	144																											
04149	144																											
04151	144																											
04152	144																											
04153	61	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04153	407	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04153	411	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04153	415	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04154	61	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04154	407	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04154	411	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04154	415	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04155	61	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04155	407	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04155	411	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04155	415	■	■	■	■	■	■	■	■		■	■	■	■		■	■	■	■	■		■	■	■	■	■	■	■
04156	61	■	■	■					■																			
04156	407	■	■	■					■																			
04156	411	■	■	■					■																			
04156	415	■	■	■					■																			
04164	61	■	■																									
04202	492	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04202	514	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04202	540	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04203	492	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04203	514	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04203	540	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
042061	502	■	■											■		■	■		■	■		■	■			■	■	■
042062	502	■	■											■		■	■		■	■		■	■			■	■	■
042071	502	■	■											■		■	■		■	■		■	■			■	■	■
042072	502	■	■											■		■	■		■	■		■	■			■	■	■
042091	502	■	■													■							■			■		
042092	502	■	■													■							■			■		
0421101	556	■	■	■			■	■				■		■	■	■		■	■	■		■	■	■		■	■	
0421701	556										■																	
0422101	556	■	■	■			■	■						■	■	■		■	■	■		■	■	■		■	■	
04222	492																											
0422301	556	■	■									■				■										■		
0422701	556										■																	
0422901	530								■																			
0423001	530								■																			

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
04231	249								■																			
0424001	557																											
0424101	557	■	■	■								■		■	■	■		■	■	■		■	■	■		■		
0424601	557									■																		
0424701	557										■																	
0426001	243																											
04265K	243								■																			
04266	243									■																		
04267	243										■																	
04274K	243	■	■		■							■		■		■	■		■	■		■	■	■		■	■	
04277K	243						■																					
04278K	243			■											■			■						■				
04280	253	■	■		■		■					■		■		■			■	■		■	■			■	■	
04282K	253	■	■		■		■					■		■		■			■	■		■	■			■	■	
04284	364	■	■	■	■											■	■	■						■	■	■		
04284	372	■	■	■	■											■	■	■						■	■	■		
04284	382	■	■	■	■											■	■	■						■	■	■		
04284	391	■	■	■	■											■	■	■						■	■	■		
04284	423	■	■	■	■											■	■	■						■	■	■		
04284	492	■	■	■	■											■	■	■						■	■	■		
04284	514	■	■	■	■											■	■	■						■	■	■		
04284	540	■	■	■	■											■	■	■						■	■	■		
04285	364	■	■	■	■											■	■	■						■	■	■		
04285	382	■	■	■	■											■	■	■						■	■	■		
04285	423	■	■	■	■											■	■	■						■	■	■		
04285	492	■	■	■	■											■	■	■						■	■	■		
04285	514	■	■	■	■											■	■	■						■	■	■		
04285	540	■	■	■	■											■	■	■						■	■	■		
04287	253			■														■						■				
04300	361	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04300	379	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04301K	397	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	463	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	473	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	482	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	494	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	505	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	516	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	522	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	541	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
04301K	550	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■		■	■	■
0430601	557																											
0430701	557										■																	
04308K	531								■																			
04311	494	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■	■		■	■	
04311	505	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■	■		■	■	
04311	516	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■	■		■	■	
04311	531	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■	■		■	■	
04311	550	■	■	■	■		■	■	■	■	■			■	■	■		■	■	■		■	■	■		■	■	
04329	549	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
04330	549	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
04339	549	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
04340	549	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
04344	492	■	■	■	■											■	■	■						■		■		
04344	514	■	■	■	■											■	■	■						■		■		
04344	540	■	■	■	■											■	■	■						■		■		
04345	492	■	■	■	■											■	■	■						■		■		
04345	514	■	■	■	■											■	■	■						■		■		
04345	540	■	■	■	■											■	■	■						■		■		
04347	246								■																			
04352	549																											
04353	492	■	■	■													■	■						■				
043541	9	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043541	396	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043541	406	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043541	410	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043541	464	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043542	9	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043542	396	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043542	406	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	

CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																	PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
043542	410	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043542	464	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	362	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	370	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	380	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	389	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	422	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043551	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	362	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	370	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	380	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	389	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	422	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043552	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043561	362	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043561	380	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043561	422	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043561	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043562	362	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043562	380	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043562	422	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043562	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04357	463	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04357	482	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04358	287	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043591	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
043592	460	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04362	13	■	■																									
04362	402	■	■																									
04363	13	■	■																									
04363	402	■	■																									
04371	461	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	472	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	480	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	490	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	503	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	513	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	539	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04371	548	■	■	■	■	■	■	■					■	■	■	■	■	■	■	■		■	■	■	■	■	■	■
04380	530								■																			
04395	65																											
04395	421																											
04396	65																											
04396	421																											
04397	65																											
04397	421																											
04398	65																											
04398	421																											
04399	65																											
044001	15	■	■											■		■	■		■	■		■	■			■	■	■
044001	506	■	■											■		■	■		■	■		■	■			■	■	■
044002	15	■	■											■		■	■		■	■		■	■			■	■	■
044002	506	■	■											■		■	■		■	■		■	■			■	■	■
04406	505	■	■													■							■			■		
04407	505	■	■																									
04409	505	■	■	■												■		■					■	■		■		
04411	505																											
04423	532							■																				
044241	11	■	■	■																								
044241	396	■	■	■																								
044241	414	■	■	■																								
044241	483	■	■	■																								
044242	11	■	■	■																								
044242	396	■	■	■																								
044242	414	■	■	■																								
044242	483	■	■	■																								
044251	363	■	■	■																								
044251	371	■	■	■																								
044251	381	■	■	■																								
044251	390	■	■	■																								

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
044251	479	■	■	■																								
044252	363	■	■	■																								
044252	371	■	■	■																								
044252	381	■	■	■																								
044252	390	■	■	■																								
044252	479	■	■	■																								
044261	363	■	■	■																								
044261	381	■	■	■																								
044261	479	■	■	■																								
044262	363	■	■	■																								
044262	381	■	■	■																								
044262	479	■	■	■																								
04462N	176																											
04463N	176																											
04464N	176																											
04465N	176																											
04466N	176																											
04467N	176																											
04469N	173																											
04470N	173																											
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04472N	173																											
04473N	173																											
04474N	173																											
04476N	157	■	■																									
04490N	173	■	■																									
04491N	173																											
04492N	173																											
04493N	173																											
04494N	173	■	■																									
04495N	173																											
04496N	174																											
04497N	174																											
04498N	174																											
04499N	174																											
04500N	174																											
0450701	555										■																	
0451601	555																											
0451801	555											■																
0452901	555								■	■																		
0453001	603	■	■																									
04538	567																											
04542	563																											
04545	567																											
04546	563																											
04548	567																											
04549	563																											
04559	568																											
04560	561																											
04561	567																											
04563	563																											
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0457701	603																											
0457901	603																											
0458001	603																											
0458101	603																											
0458201	603																											
0458301	603																											
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0459001	603																											
0459101	603																											
0459201	603																											
0459401	603																											
04598	606																											
04600	563																											
04607N	176																											
0461301	163																											

CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
0461401	163																											
0461501	163	■	■																									
04616	165	■	■																									
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0461901	163																											
0462001	163																											
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04623	165																											
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04630	170	■	■											■										■				
04633	176																											
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04635	178																											
04636	176																											
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04639	170																											
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04643	171																											
04645	162	■	■											■										■				
04646	162	■	■											■			■							■				
04647	176																											
04648K	531								■																			
04649	162	■	■																									
04650	162	■	■																									
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04653N	173	■	■																									
04654N	173	■	■																									
04655	170	■	■														■							■				
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04662K	277																											
04663K	277																											
04664K	277	■	■																									
04665N	176																											
04666N	178																											
04667N	178																											
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04677K	276																											
04679K	276																											
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04688	610																											
04690	610																											
0469401	611																											
0469501	603																											
04698	162																											
04699	162																											
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04704	472	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704	480	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704	490	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704	503	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704	513	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704	548	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04704010	461	■	■		■																							
04704010	472	■	■		■																							
04704010	480	■	■		■																							
04704010	490	■	■		■																							
04704010	503	■	■		■																							
04704010	548	■	■		■																							
0470501	461	■	■		■	■	■							■	■	■	■	■										
0470501	472	■	■		■	■	■							■	■	■	■	■										
0470501	480	■	■		■	■	■							■	■	■	■	■										
0470501	490	■	■		■	■	■							■	■	■	■	■										
0470501	503	■	■		■	■	■							■	■	■	■	■										
0470501	513	■	■		■	■	■							■	■	■	■	■										

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
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04706N	472	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04706N	480	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04706N	490	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04706N	503	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04706N	513	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04706N	548	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
0470701	461	■	■		■	■	■							■	■	■	■	■										
0470701	472	■	■		■	■	■							■	■	■	■	■										
0470701	480	■	■		■	■	■							■	■	■	■	■										
0470701	490	■	■		■	■	■							■	■	■	■	■										
0470701	503	■	■		■	■	■							■	■	■	■	■										
0470701	513	■	■		■	■	■							■	■	■	■	■										
04709	538																											
04711	364	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711	372	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711	382	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711	391	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711	423	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711	489	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	
04711010	489	■	■		■																							
04718	512	■	■											■			■		■									
04721	528								■																			
04721	532								■																			
04727	551	■	■																									
04728	495	■	■	■	■																			■				
04728	542	■	■	■	■																			■				
04739	547	■	■	■	■		■	■						■	■	■	■	■	■	■			■	■		■	■	
04766N	529								■																			
04767V	529								■																			
04768N	529								■																			
04770K	463	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	473	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	482	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	494	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	505	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	516	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04770K	541	■	■	■	■		■	■						■	■	■	■	■	■	■		■	■	■	■	■	■	■
04777K	397	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	463	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	473	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	482	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	494	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	505	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	516	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04777K	541	■	■	■	■		■	■				■		■	■	■	■	■	■	■		■	■	■	■	■	■	
04778	550																											
04850	167																											
04851	167																											
04852	167	■	■																									
04854	166																											
04855	166	■	■																									
04859	170	■	■																									
04860	170	■	■																									
04861	170	■	■																									
04862	170	■	■																									
04863	170	■	■																									
04865	603																											
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0489701	613																											
0489901	613																											
0490201	613																											
04902L1	613																											
0490301	613																											
0490401	613																											

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CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
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0491001	613																											
04912L1	613																											
0491301	613																											
0491601	613																											
0491701	613																											
0491902	613																											
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0499202	603																											
04994L1	613																											
0499902	603																											
05003	611																											
0500401	603																											
050061	87																											
050062	87																											
050071	87				■																							
050072	87																											
05008	87				■																							
050081	87				■																							
05011	606																											
05051	47	■	■	■			■		■	■				■	■	■	■	■	■	■			■		■	■	■	
05052	46	■	■	■			■		■	■				■	■	■		■	■	■			■		■	■	■	
05053	47	■	■	■			■		■	■				■	■	■	■	■	■	■			■		■	■	■	
05054	47	■	■							■																		
05095	39	■	■																									
05096	39	■	■						■																			
05097	39	■	■																									
05098	39	■	■																									
05120V	38	■	■	■	■	■	■		■					■	■	■		■	■				■	■	■	■	■	■
05121V	38	■	■	■	■		■		■					■	■	■		■	■				■	■	■	■	■	■
05122V	38	■	■		■																							
05123V	38				■																							
05124V	38																											
05125V	38																											
05126V	38	■	■	■				■	■	■				■	■	■	■	■	■			■	■	■	■	■	■	
05127V	38	■	■	■				■	■	■				■	■	■	■	■	■			■	■	■	■	■	■	
05128V	38	■	■	■					■	■								■									■	
05129V	38	■	■						■	■				■														■
05130V	38	■	■													■							■					
05131V	38	■	■													■							■					
05132V	38																											
05134V	38	■	■	■										■	■				■	■								
05135V	38	■	■	■										■	■				■	■								■
05136V	38	■	■	■					■	■					■	■		■					■			■		
05137V	38	■	■	■					■	■					■	■		■					■			■		
05138V	38					■																						
05139V	38					■																						
05158V	32													■														
05159V	32																											
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05161V	32	■	■	■	■	■	■		■					■	■	■		■	■				■	■	■	■	■	
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05163V	32				■																							
05164V	32																											
05165V	32																											
05166V	32	■	■	■				■	■	■				■	■	■	■	■	■			■	■	■	■	■	■	
05167V	32	■	■	■				■	■	■				■	■	■	■	■	■			■	■	■	■	■	■	
05168V	32	■	■	■					■	■								■									■	
05169V	32	■	■						■	■				■														■
05170V	32	■	■													■							■					
05171V	32	■	■													■							■					
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05174V	32	■	■	■										■	■				■	■								■
05175V	32	■	■	■										■	■				■	■								■
05176V	32	■	■	■					■	■					■	■		■					■			■		
05177V	32	■	■	■					■	■					■	■		■					■			■		

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
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05182N	35																											
05195	39	■	■																			■						
05196	39	■	■						■	■																		
05197	39	■	■			■																						
05198	39	■	■																									
05199	39																											
0520001	40	■	■			■			■					■		■								■		■		
0520101	40	■	■			■			■					■										■		■		
0520201	40	■	■			■			■	■												■						
0520301	40	■	■			■			■	■												■						
0520401	42	■	■							■				■												■		
0520501	42	■	■							■												■						
05241	45																											
05242	45																											
05243	45	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■		■	■	■	■	■	■	■
05244	45	■	■	■	■	■	■	■	■	■				■	■	■	■	■	■	■		■	■	■	■	■	■	■
05261	63																											
052621	63																											
052622	63																											
05289	473													■	■	■	■	■										
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052921	470													■	■	■	■	■										
052922	470													■	■	■	■	■										
05293	471													■	■	■	■	■										
05294	287	■	■	■																								
05300	41	■	■																									
05301	41	■	■																									
05302	41	■	■																									
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05560	63																											
05979	176																											
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06014	592																											
0601801	580																											
06019	578																											
06020	626																											
06021	626																											
06024	626																											

CODE / PROFILE CROSS-SECTIONS TYPE

		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
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06041	624																											
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06052	576																											
06054	578																											
06112	638																											
06113	638																											
06168	29																											
06169	29																											
06170	29	■	■	■		■	■		■					■	■	■		■	■				■	■	■	■	■	
06171	29	■	■	■	■	■	■		■					■	■	■		■	■				■	■	■	■	■	
06172	29				■																							
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06177	29	■	■	■				■	■	■				■	■	■	■	■	■			■	■	■	■	■	■	
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06231	638																											
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06233	638																											
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06342	638																											
06343	638																											
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		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
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06493	639																											
06500	310	■	■	■			■		■	■	■	■		■	■	■		■	■	■		■	■			■		
06501	310	■	■	■			■		■	■	■	■		■	■			■	■	■		■				■		
06502	310	■	■	■					■		■	■								■								
06503	563																											
06504	561																											
06510	311	■	■	■			■		■	■	■	■		■	■	■		■	■	■		■	■			■		
06512	563																											
06521	300																											
06523	300																											
06528	301																											
06529	301																											
06532	300																											
06533	300																											
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06535	300																											

CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
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		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
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CODE / PROFILE CROSS-SECTIONS TYPE

Code	Pag	SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
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		SIDE-HUNG CROSS-SECTIONS TYPE																PIVOTING CROSS-SECTIONS TYPE									
Code	Pag	C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	P001	P002	P003	P004	P005	P006	P007	P008	P009	P010
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90086	605																											
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GIESSE
TYMAN group

HINGES FOR DOORS AND WINDOWS





FLASH BASE HINGES

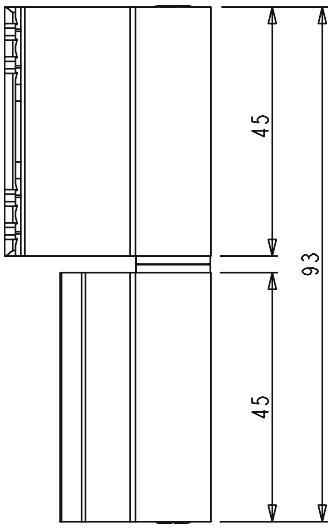
Functions
Two-handed hinge for aluminium casement window and door fixtures with central gasket seal.

Online data sheet

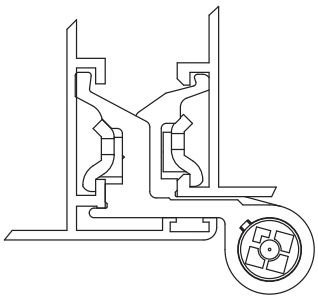
Technical Features
Supplied preassembled to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The FLASH BASE hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been assembled.
The particular geometry of the hinge and of the plate enables swift and simple application to the already assembled fixture, and faultless positioning of the hinge when fixing the screws.
Hinges 00120 00122 00123 00128 and 00259 are certified to EN1935:2002 and classified for windows typified by average intensity of use (use category 2* - average use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles).
* Complies with EN 1935

Materials
Extruded aluminium hinge bodies
Stainless steel pin, screws and fixing plates
Polyamide bushes

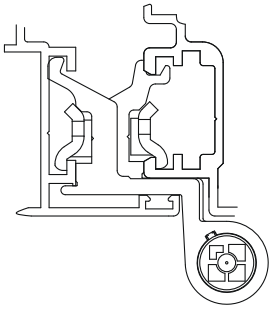
Capacities
With 2 FLASH BASE hinges: 75 kg
With 3 FLASH BASE hinges: 85 kg
assuming fixtures of 2000 mm height and 1000 mm width.



Side profile cross-section



third sash cross-section



Item code	Description	PROFILE CROSS - SECTION	Pre-assembled	Hand	Flush opening	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00094U	FLASH BASE HINGE	see Where Used					X		X	X	20
00095U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
00099U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
00100U	FLASH BASE HINGE	see Where Used					X	X	X		20
001201	FLASH BASE HINGE	C001	X	RX				X	X	X	50
001202	FLASH BASE HINGE	C001	X	LX				X	X	X	50
00120U	FLASH BASE HINGE	C001					X	X	X	X	20
001211	FLASH BASE HINGE	see Where Used	X	RX		X		X	X	X	50
001212	FLASH BASE HINGE	see Where Used	X	LX		X		X	X	X	50
00121U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
001221	FLASH BASE HINGE	C002	X	RX				X	X	X	50
001222	FLASH BASE HINGE	C002	X	LX				X	X	X	50
00122U	FLASH BASE HINGE	C002					X	X	X	X	20
001231	FLASH BASE HINGE	see Where Used	X	RX		X		X	X	X	50
001232	FLASH BASE HINGE	see Where Used	X	LX		X		X	X	X	50
00123U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00126U	FLASH BASE HINGE	C008					X	X	X	X	20
00127U	FLASH BASE HINGE	C008				X	X	X	X	X	20
001281	FLASH BASE HINGE	C007	X	RX				X	X	X	50
001282	FLASH BASE HINGE	C007	X	LX				X	X	X	50
00128U	FLASH BASE HINGE	C007					X	X	X	X	20
00129U	FLASH BASE HINGE	C007				X	X	X	X	X	20
00130U	FLASH BASE HINGE	C005					X	X	X	X	20
001341	FLASH BASE HINGE	C009	X	RX				X	X	X	50
001342	FLASH BASE HINGE	C009	X	LX				X	X	X	50
00134U	FLASH BASE HINGE	C009					X	X	X	X	20
00135U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
00136U	FLASH BASE HINGE	C003					X	X	X	X	20
00137U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
00142U	FLASH BASE HINGE	see Where Used					X	X	X		20
001431	FLASH BASE HINGE	C015	X	RX		X		X	X	X	50
001432	FLASH BASE HINGE	C015	X	LX		X		X	X	X	50
00143U	FLASH BASE HINGE	C015				X	X	X	X	X	20
0014411	FLASH BASE HINGE	C001-C002-C013-C014-C015-C016-C017	X	RX		X		X	X		50
0014421	FLASH BASE HINGE	C001-C002-C013-C014-C015-C016-C017	X	LX		X		X	X		50
00144N	FLASH BASE HINGE	C001-C002-C013-C014-C015-C016-C017				X	X	X	X	X	20
00147N	FLASH BASE HINGE	C003					X	X	X		20
00227U	FLASH BASE HINGE	see Where Used						X	X		20
00240U	FLASH BASE HINGE	C011					X	X	X	X	20
00258U	FLASH BASE HINGE	see Where Used						X	X	X	20
002591	FLASH BASE HINGE	C010	X	RX		X		X	X	X	50
002592	FLASH BASE HINGE	C010	X	LX		X		X	X	X	50
00259U	FLASH BASE HINGE	C010				X	X	X	X	X	20
002701	FLASH BASE HINGE	see Where Used	X	RX			X	X	X	X	50
002702	FLASH BASE HINGE	see Where Used	X	LX			X	X	X	X	50
00278U	FLASH BASE HINGE	see Where Used			X		X	X	X	X	20
00279U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
002811	FLASH BASE HINGE	see Where Used				X			X		50
002812	FLASH BASE HINGE	see Where Used				X			X		50
00281U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20

HINGES FOR WINDOWS

Item code	Description	PROFILE CROSS - SECTION	Pre-assembled	Hand	Flush opening	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
002851	FLASH BASE HINGE	see Where Used	X	RX				X	X		50
002852	FLASH BASE HINGE	see Where Used	X	LX				X	X		50
00285U	FLASH BASE HINGE	see Where Used					X	X	X	X	20
005271	FLASH BASE HINGE	C001-C005	X	RX				X	X	X	50
005272	FLASH BASE HINGE	C001-C005	X	LX				X	X	X	50
00527U	FLASH BASE HINGE	C001-C005					X		X		20
00529U	FLASH BASE HINGE	see Where Used				X	X	X	X	X	20
005641	FLASH BASE HINGE	see Where Used	X	RX	X			X	X		50
005642	FLASH BASE HINGE	see Where Used	X	LX	X			X	X		50
00564U	FLASH BASE HINGE	see Where Used			X			X	X	X	20
00612U	FLASH BASE HINGE	see Where Used					X	X	X	X	20

Note: For the «Third sash» hinges, check the correct series on Where-used.



FLASH BASE 3-WING HINGE

Functions

Two-handed 3-wing hinge, for lightweight window and door fixtures made with channel profile.

Online data sheet

Technical Features

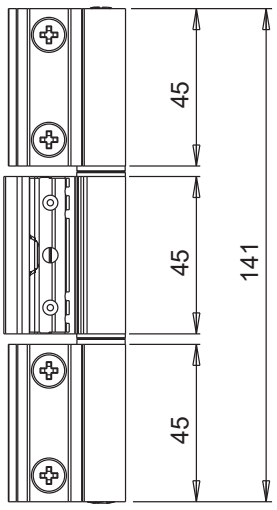
Two-handed three wing hinge, suitable for lightweight door fixtures and bottom hung or projecting type windows.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.

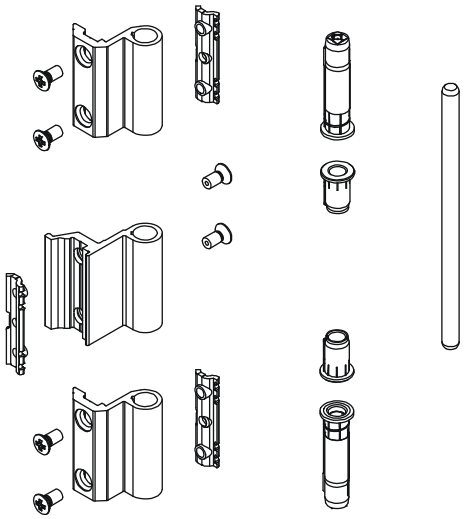
Materials

Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

Capacities

85 kg with 2 hinges
100 kg with 3 hinges





Item code	Description	PROFILE CROSS - SECTION	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00103U	FLASH BASE 3-WING HINGE	C003	85	100	X				20
00115U	FLASH BASE 3-WING HINGE	C001	85	100	X	X	X		20
00119	FLASH BASE 3-WING HINGE	C001-C002-C013-C014-C015-C016-C017	85	100	X		X		20
00171	FLASH BASE 3-WING HINGE	see Where Used	85	100	X		X		20



FLASH HINGES

Functions

Two-handed adjustable hinge for aluminium casement window and door fixtures with central gasket seal.

Online data sheet

Technical Features

Supplied preassembled to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The burglar-proof pin, made of forged stainless steel, features a collar mid-way along its length that prevents any forcible attempt at removal.
Special fixing plates, preassembled with the hinge bodies (Giesse RAPID system), enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The FLASH hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been assembled.
The particular geometry of the hinge and of the plate enables swift and simple application to the already assembled fixture, and faultless positioning of the hinge when fixing the screws.

Adjustments

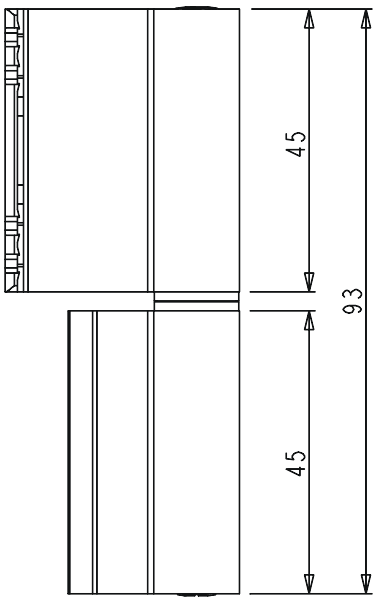
The hinge features an eccentric pin which, when adjusted by rotation in the respective bush, provides a compression and distance adjustment of ±0.3 mm.

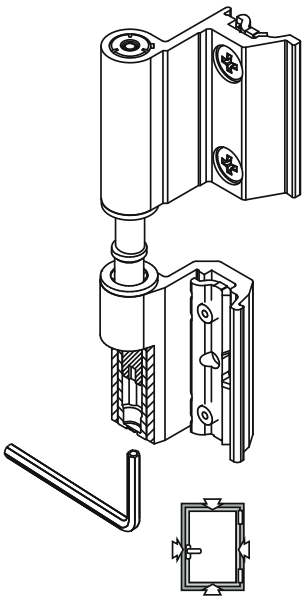
Materials

Extruded aluminium hinge bodies
Stainless steel pin, screws and fixing plates
Polyamide bushes

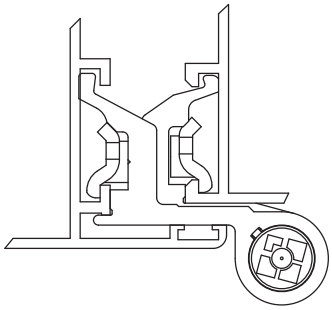
Capacities

With 2 FLASH BASE hinges: 75 kg
With 3 FLASH BASE hinges: 85 kg
assuming fixtures of 2000 mm height and 1000 mm width.

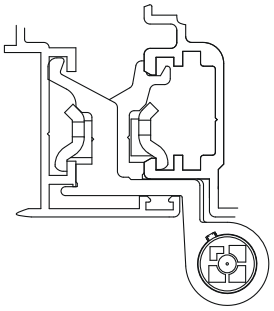




Side profile cross-section



third sash cross-section



Item code	Description	PROFILE CROSS - SECTION	Third sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00149U	FLASH HINGE	see Where Used		X	X	X	X	20
00150U	FLASH HINGE	C001		X	X	X	X	20
00151U	FLASH HINGE	see Where Used	X	X	X	X	X	20
00157U	FLASH HINGE	C008	X	X		X	X	20

Note: For the «Third sash» hinges, check the correct series on Where-used.



SASH HINGE SET FOR CHIC 3D 100

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

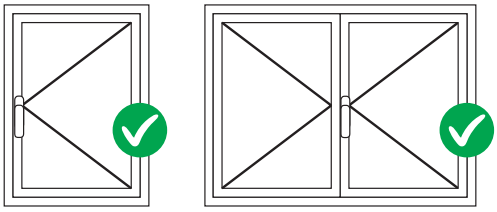
Online data sheet

Technical Features

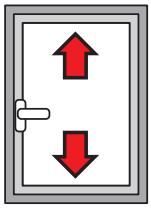
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

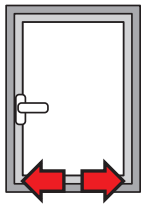
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel



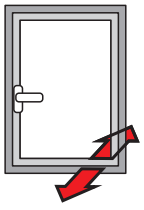
ADJUSTMENTS [mm]



Height:
+2.5 / -1

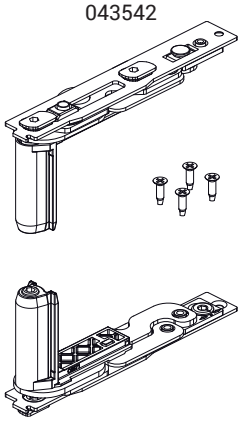


Side:
+1.5 / -1.5

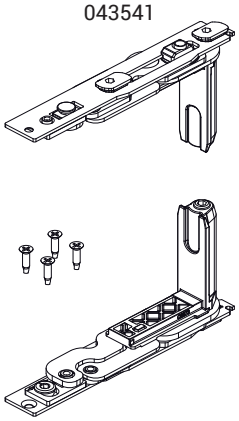


Hinge compression:
+1.4 / -0.6

043542



043541



Adjustments

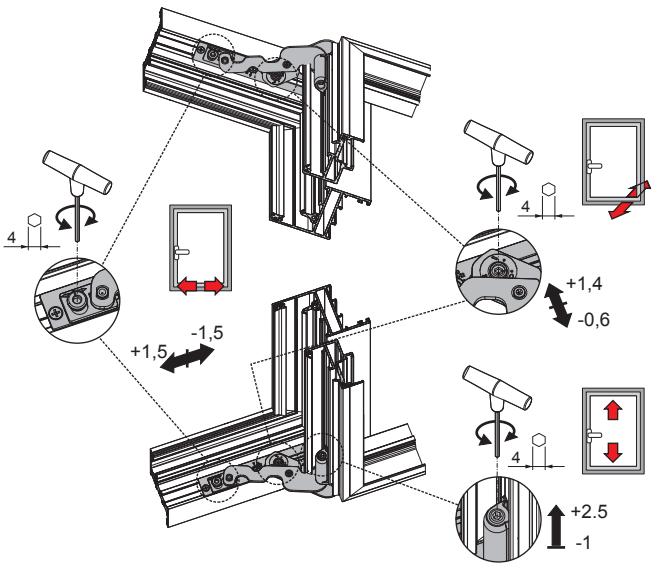


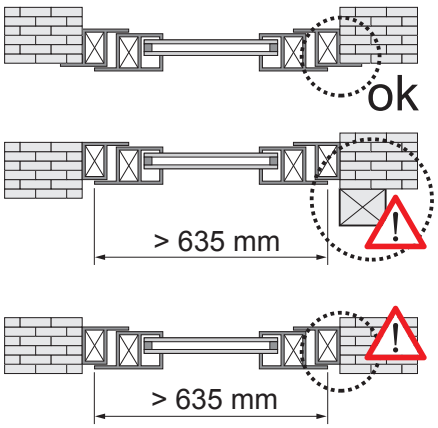
Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					
600											
160											

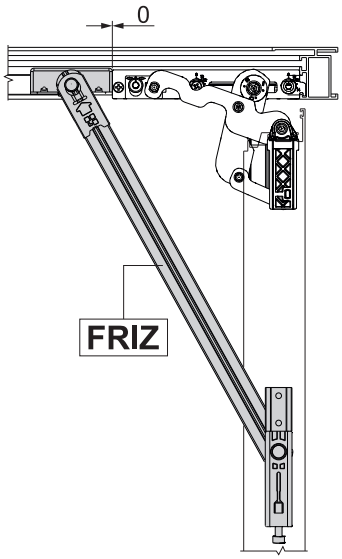
Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					
600											
160											

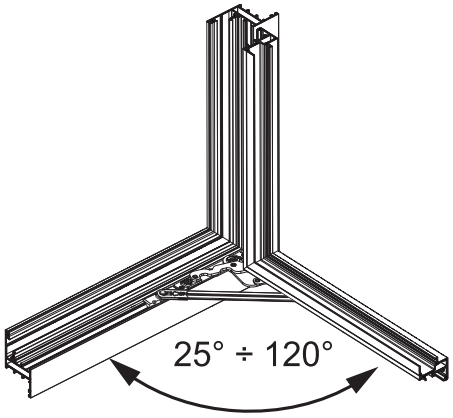
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	LX	X				10



SASH HINGE SET FOR CHIC 3D 130

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

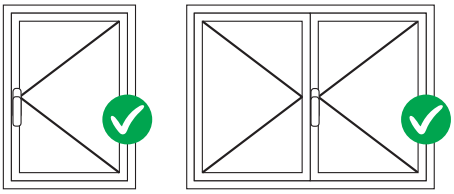
Online data sheet

Technical Features

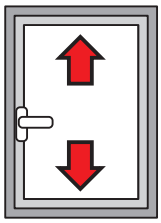
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

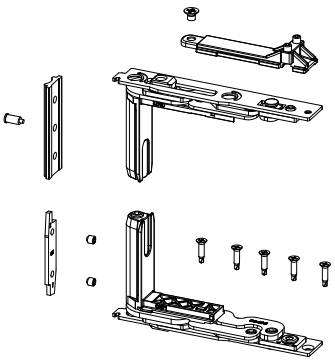


ADJUSTMENTS [mm]

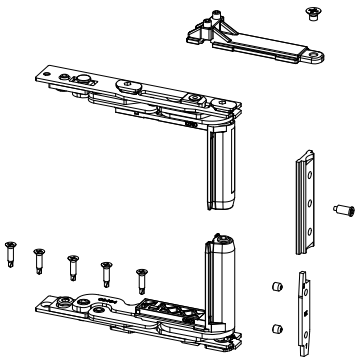


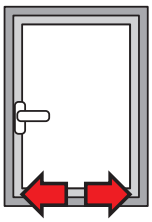
Height:
+2.5 / -1

044242



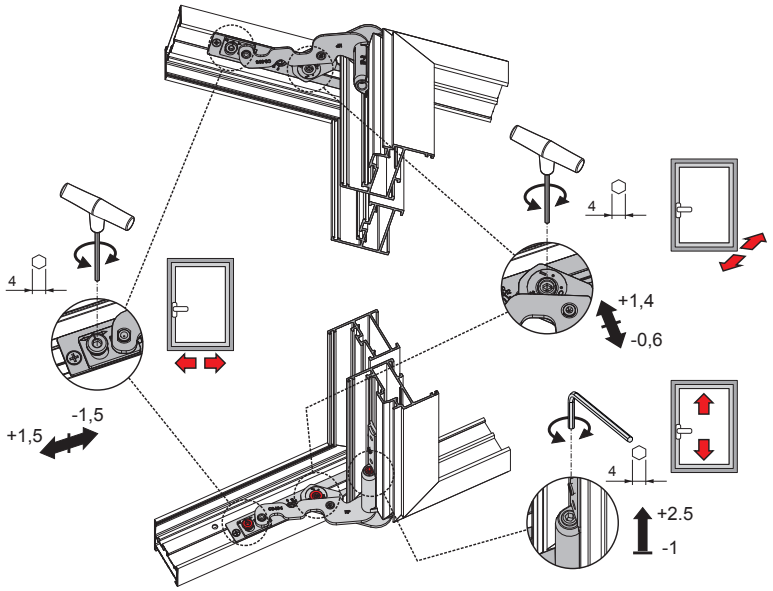
044241

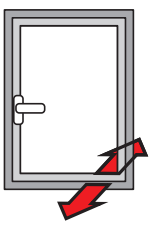




Side:
+1.5 / -1.5

Adjustments





Hinge compression:
+1.4 / -0.6

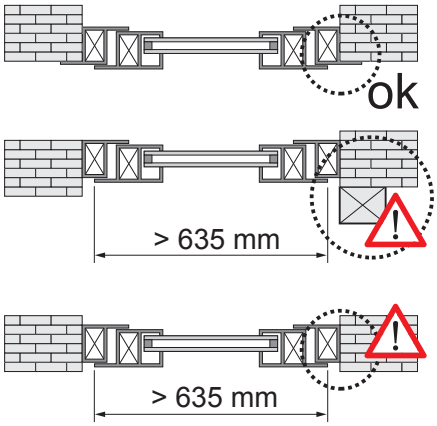
Table of maximum glass thickness [mm]

600 / 200	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	35	29	25	22	19	17	16	14	13	12	12	
2700	37	31	26	23	20	18	17	15	14	13	12	
2600	39	32	28	24	21	19	18	16	15	14	13	12
2500	43	35	30	27	24	21	19	18	16	15	14	13
2400	43	35	30	27	24	21	19	18	16	15	14	13
2300	44	37	32	28	25	22	20	18	17	16	15	14
2200	46	39	33	29	26	23	21	19	18	17	15	14
2100	49	40	35	30	27	24	22	20	19	17	16	15
2000	51	43	36	32	28	26	23	21	20	18	17	16
1900	54	45	38	34	30	27	24	22	21	19	18	17
1800	57	47	40	35	31	28	26	24	22	20	19	18
1700	60	50	43	38	33	30	27	25	23	21	20	18
1600	60	53	46	40	35	32	29	27	25	23	21	18
1500	60	57	49	43	38	34	31	28	26	24	21	18
1400	60	60	52	46	40	36	33	30	28	24	21	18
1300	60	60	56	49	44	39	36	33	28	24	21	18
1200	60	60	60	53	47	43	39	33	28	24	21	
1100	60	60	60	58	52	46	39	33	28	24		
1000	60	60	60	60	57	47	39	33	28			
900	60	60	60	60	58	47	39	33				
800	60	60	60	60	58	47	39					
700	60	60	60	60	58	47						

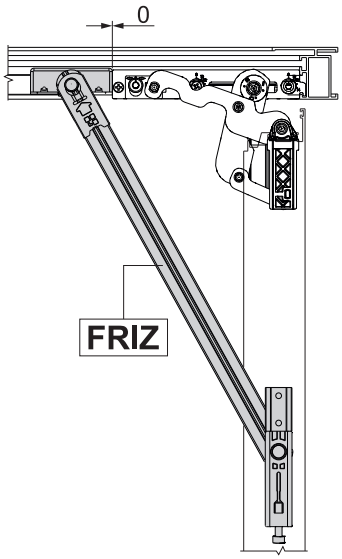
Table of maximum load capacity [kg]

600 / 200	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	124	124	124	124	124	124	124	124	124	124	124	
2700	126	126	126	126	126	126	126	126	126	126	126	
2600	128	128	128	128	128	128	128	128	128	128	128	128
2500	130	130	130	130	130	130	130	130	130	130	130	130
2400	130	130	130	130	130	130	130	130	130	130	130	130
2300	130	130	130	130	130	130	130	130	130	130	130	130
2200	130	130	130	130	130	130	130	130	130	130	130	130
2100	130	130	130	130	130	130	130	130	130	130	130	130
2000	130	130	130	130	130	130	130	130	130	130	130	130
1900	130	130	130	130	130	130	130	130	130	130	130	130
1800	130	130	130	130	130	130	130	130	130	130	130	130
1700	130	130	130	130	130	130	130	130	130	130	130	127
1600	130	130	130	130	130	130	130	130	130	130	127	119
1500	130	130	130	130	130	130	130	130	130	128	119	112
1400	130	130	130	130	130	130	130	130	129	119	111	104
1300	130	130	130	130	130	130	130	129	119	111	103	97
1200	130	130	130	130	130	130	130	119	110	102	95	
1100	130	130	130	130	130	130	119	109	101	94		
1000	130	130	130	130	130	119	108	99	92			
900	130	130	130	130	119	107	98	90				
800	130	130	130	119	106	95	87					
700	130	130	119	104	93	84						

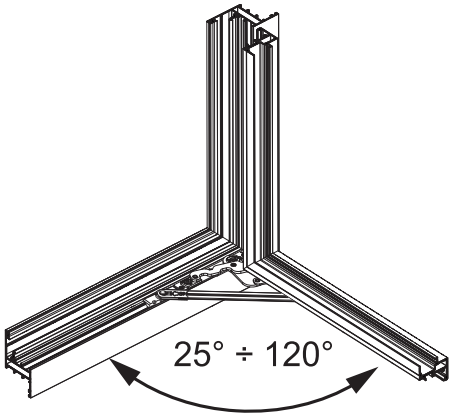
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044241	CHIC - SASH HINGE SET	C001	RX	X				10
044242	CHIC - SASH HINGE SET	C001	LX	X				10



CHIC HINGES FOR BOTTOM-HUNG WINDOWS

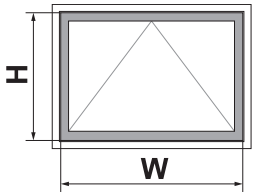
Functions
Hinge set for concealed Bottom-hung window.

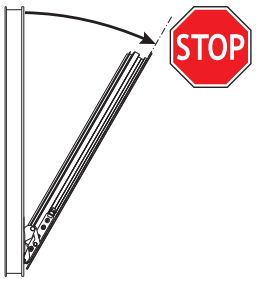
Online data sheet

Technical Features
Total opening of the 180° hinge to facilitate its assembly.
Fixing on the frame without machining, by means of pre-assembled cams.
Sash height (+2.5 ÷ -0.5 mm) and compression (+1.4 ÷ -0.6 mm) adjustment, micrometric and independent of each other.
The hinge is completed by 2 raising components that improve its stability.
Maximum load capacity (*) 250 kg
Minimum height (*) 3,000 mm
(*) these are a consequence of the opening limiter used (see the opening limiters table).
Maximum width 2,500 mm. Over 1,500 and 2,000 mm it is necessary to use no. 1 or no. 2 Raising components 04363 (see Raising component use scheme).

Materials
GS Silver PLUS zamak sash support
Connecting brackets, hinge plates and cams in zinc plated steel
AISI 304 stainless steel pins and screws
Grey polyamide raising component

CHIC BOTTOM HUNG



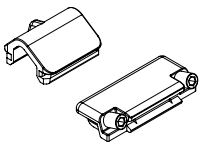


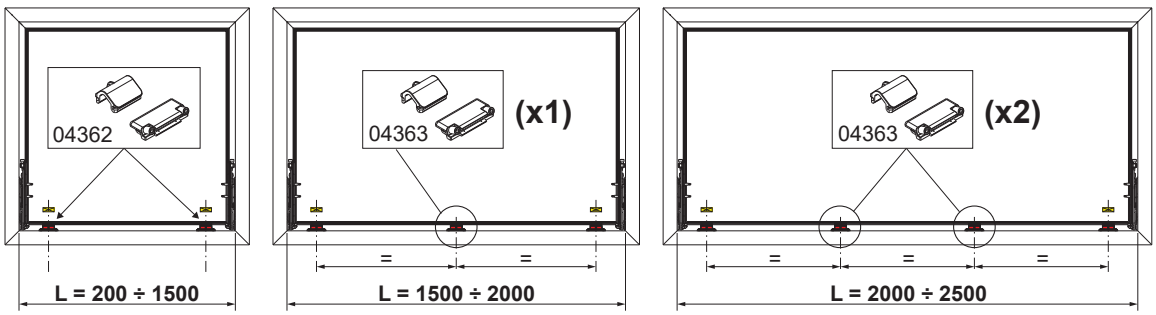
Compulsory: opening limiter.

Description	Item code	Capacities	W (mm)	H (mm)
RALLENTY (150mm)	02041K	50 kg	200÷2500	400÷1500
RALLENTY (250mm)	02040K	80 kg	200÷2500	570÷2500
FRIZ (140mm)	02800K	130 kg	200÷2500	420÷2500
FRIZ (300mm)	02030K	130 kg	200÷2500	580÷2500
FUTURA HP	01175K	250 kg	780÷2500	600÷3000

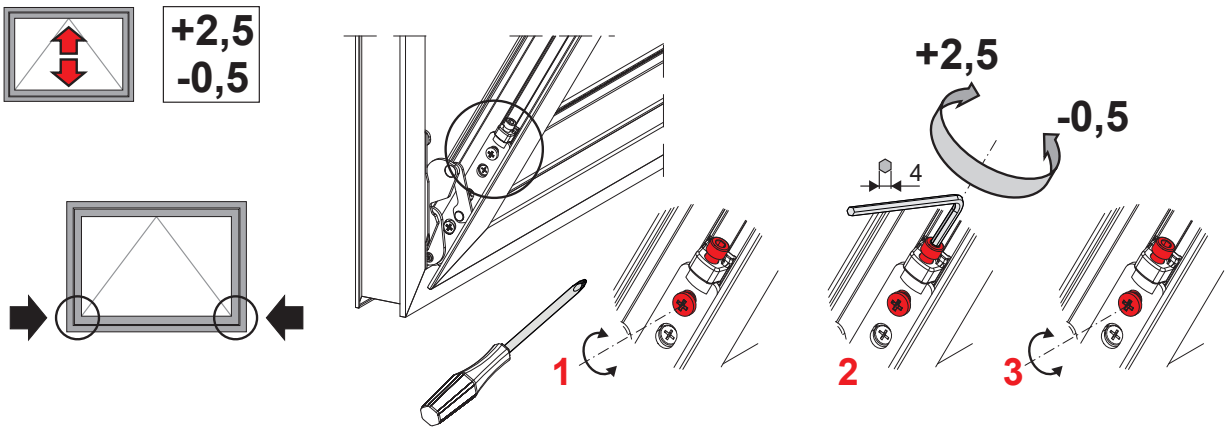
Raising component use

04363

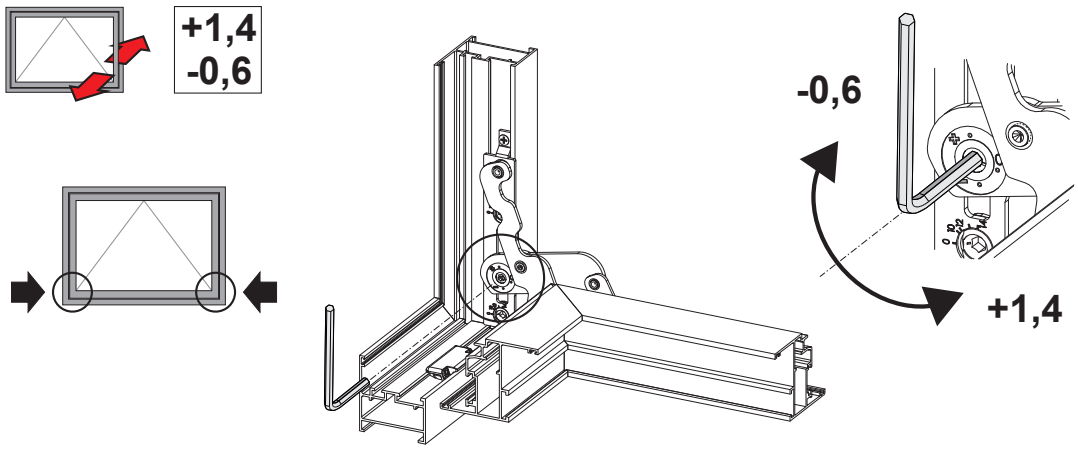




Height adjustment



Compression adjustment



Item code	Description	Note	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04362	CHIC - BOTTOM-HUNG WINDOW HINGE KIT	pair	see Where Used	X				10
04363	CHIC - BOTTOM-HUNG WINDOW RAISING COMPONENT			X				10

INVISIBLE SASH HINGE KIT



Functions

FUTURA 3D 170 HP Invisible hinge set (top and bottom) for side-hung sash or secondary sash combined with turn-and-tilt sash.

Online data sheet

Technical Features

The product is designed for sash profiles with smooth channel.
In the case of profiles with undercut channel, shims item 04406 (1.5 mm) or item 04407 (2 mm) must be used.

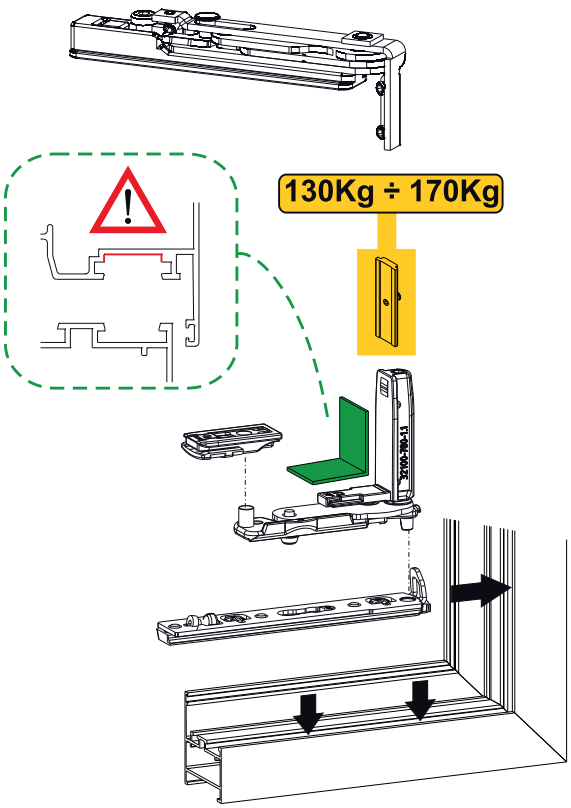
Materials

Hinge in stainless steel and zamak, pin and grub screws in stainless steel
Polyamide bushes

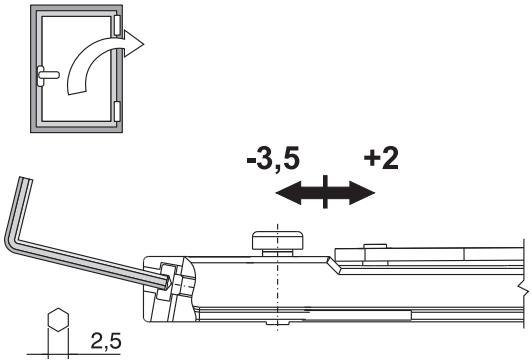
Capacities

The product has a nominal load capacity of 130 kg.
For higher load capacities up to 170 kg, reinforcement kit item 04409 or item 04411 is required.

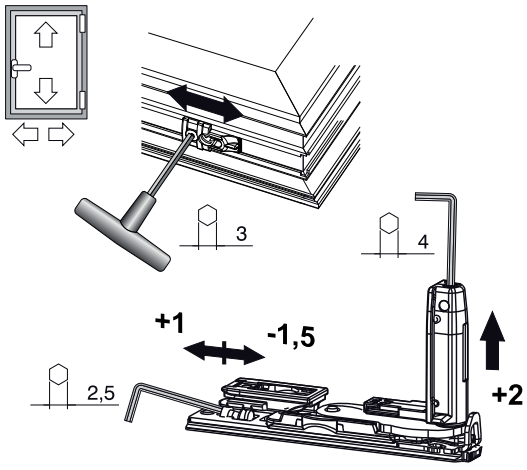
Assembly



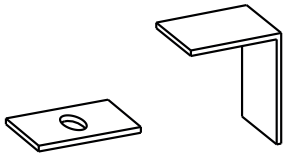
Sash drop adjustment



Side and vertical adjustment



Shims for FUTURA 3D 170 HP Invisible



Futura 3D Invisible <130 kg
Maximum allowable thickness of glass

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	36	31	27	24	22	20	18	17	15	14	14	13	
2400	45	41	38	32	28	25	23	21	19	17	16	15	14	13	
2300	47	43	39	34	30	26	24	21	20	18	17	16	15	14	
2200	50	45	41	35	31	28	25	23	21	19	18	17	15	15	
2100	50	47	43	37	33	29	26	24	22	20	19	17	16	15	
2000	50	50	46	39	34	30	27	25	23	21	20	18	17	16	
1900	50	50	48	41	36	32	29	26	24	22	21	19	18	17	
1800	50	50	50	44	38	34	31	28	25	24	22	20	19	18	
1700	50	50	50	46	41	36	33	30	27	25	23	22	20	19	
1600	50	50	50	50	43	39	35	32	29	27	25	23	22	19	
1500	50	50	50	50	46	41	37	34	31	29	27	25	22	19	
1400	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1300	50	50	50	50	50	48	43	39	36	33	29	25	22		
1200	50	50	50	50	50	50	47	43	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Futura 3D Invisible <130 kg
Maximum permissible load capacity

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2400	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2300	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2200	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2100	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2000	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1900	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1600	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1500	130	130	130	130	130	130	130	130	130	130	130	130	130	121	114
1400	130	130	130	130	130	130	130	130	130	130	130	130	121	113	106
1300	130	130	130	130	130	130	130	130	130	130	130	120	111	104	
1200	130	130	130	130	130	130	130	130	130	130	119	110	102		
1100	130	130	130	130	130	130	130	130	130	118	108	100			
1000	130	130	130	130	130	130	130	130	117	106	98				
900	130	130	130	130	130	130	130	116	104	95					
800	130	130	130	130	130	130	114	101	91						
700	130	130	130	130	111	98	87								
600															

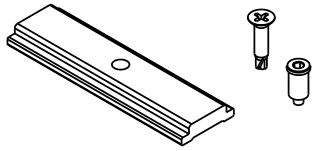
Futura 3D Invisible 130kg - 170 kg
Maximum allowable thickness of glass

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	47	40	35	31	28	26	24	22	20	19	18	17	
2400	45	41	49	42	37	33	30	27	25	23	21	20	18	17	
2300	47	43	50	44	39	34	31	28	26	24	22	21	19	18	
2200	50	45	50	46	40	36	32	29	27	25	23	22	20	19	
2100	50	47	50	49	43	38	34	31	28	26	24	23	21	19	
2000	50	50	50	50	45	40	36	33	30	28	26	24	22	19	
1900	50	50	50	50	47	42	38	34	31	29	27	25	22	19	
1800	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1700	50	50	50	50	50	47	43	39	35	33	29	25	22	19	
1600	50	50	50	50	50	50	45	41	38	33	29	25	22	19	
1500	50	50	50	50	50	50	49	44	39	33	29	25	22	19	
1400	50	50	50	50	50	50	50	47	39	33	29	25	22	19	
1300	50	50	50	50	50	50	50	47	39	33	29	25	22		
1200	50	50	50	50	50	50	50	47	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Futura 3D Invisible 130kg - 170 kg
Maximum permissible load capacity

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2400	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2300	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2200	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2100	130	130	170	170	170	170	170	170	170	170	170	170	170	163	
2000	130	130	170	170	170	170	170	170	170	170	170	170	165	154	
1900	130	130	170	170	170	170	170	170	170	170	170	167	156	146	
1800	130	130	170	170	170	170	170	170	170	170	170	158	147	138	
1700	130	130	170	170	170	170	170	170	170	170	160	149	139	130	
1600	130	130	170	170	170	170	170	170	170	163	150	139	130	122	
1500	130	130	170	170	170	170	170	170	165	152	140	130	121	114	
1400	130	130	170	170	170	170	170	169	154	141	130	121	113	106	
1300	130	130	170	170	170	170	170	156	142	130	120	111	104		
1200	130	130	170	170	170	170	159	143	130	119	110	102			
1100	130	130	170	170	170	163	144	130	118	108	100				
1000	130	130	170	170	167	146	130	117	106	98					
900	130	130	170	170	149	130	116	104	95						
800	130	130	165	152	130	114	101	91							
700	130	130	142	130	111	98	87								
600															

Reinforcement for FUTURA 3D 170 HP Invisible



Item code	Description	Notes	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044001	INVISIBLE SASH HINGE KIT		C001	RX	X				10
044002	INVISIBLE SASH HINGE KIT		C001	LX	X				10



FAST HINGES

Functions

Reversible hinge made with the extended leaf to allow opening the sash to open flush in the case of aluminium windows with a central gasket.

Online data sheet

Technical Features

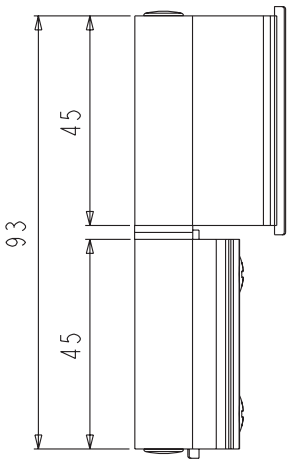
It is equipped with a steel pin, carried in two polyamide bushings, which ensure a reliable expanding action.
The extended leaf allows the sash to lie flush against the adjoining sash when opened to 180°.

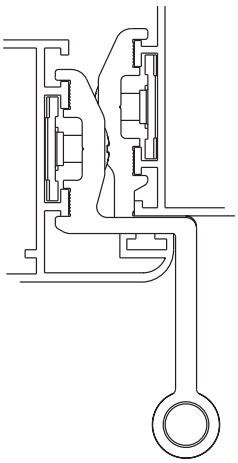
Materials

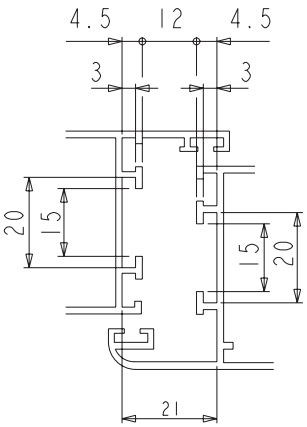
Hinge in extruded aluminium
Zinc-coated steel pin
Screws and plates, stainless steel
Black polyamide bushes

Parts

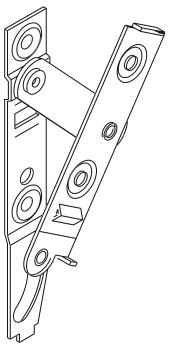
2 rectangular fixing plates
4 TGS M5 x 10 screws, crosshead







Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces for package
00180U	FAST HINGE, OUTWARD OPENING PE 40	C010	X	X			20



HINGES FOR BOTTOM-HUNG WINDOWS

Functions

Hinge for bottom-hung windows, fast assembly and secure fixing.
Enables opening a bottom-hung window without any hinges being exposed to view.

Online data sheet

Technical Features

It is fixed with cams and plates and requires no adaptation or modification of seals for assembly.
Enables bottom-hung opening of the sash to an angle of 32°.
Given its application and operation internally of the groove, bottom hung window fixtures can be assembled without any hinges exposed to view.

Materials

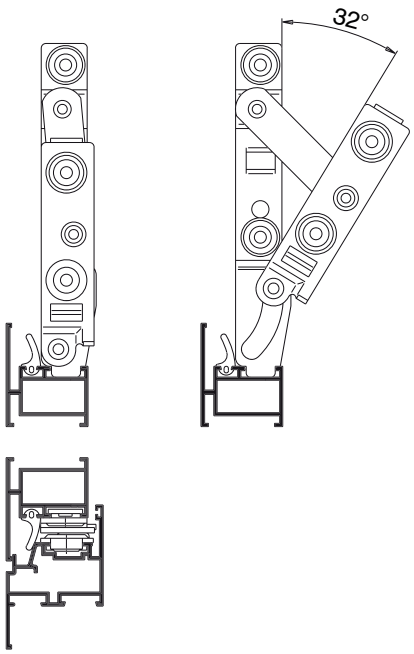
Hinge and plates of zinc-nickel plated steel
Stainless steel plates
Screws and long plates of zinc-nickel plated steel

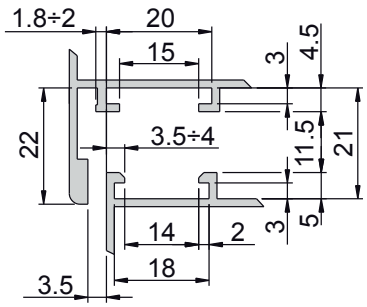
Parts

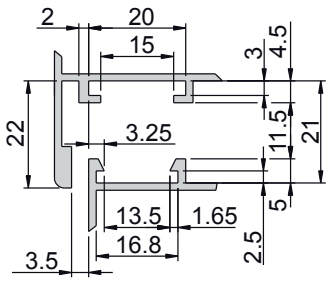
8 TSP M5x8 screws
4 threaded cam plates
2 long threaded plates

Capacities

with 2 hinges:
20 kg assuming fixtures of maximum height 700 mm
Minimum height 170 mm







Item code	Description	Note	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0205101	HINGES FOR BOTTOM-HUNG WINDOWS	pair	C001	X				10



BRIDGE 2 HINGES

Functions

Clamp hinge for lightweight windows and door fixtures made with channel profile.

Online data sheet

Technical Features

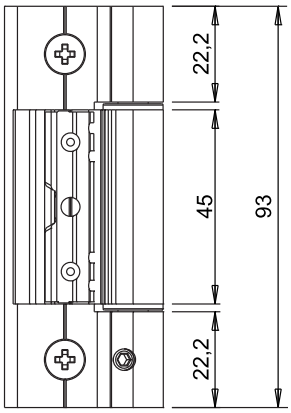
Two-handed hinge suitable for lightweight door fixtures and bottom hung or projecting type windows.
Supplied preassembled (except the plate for fixing the hinge on the frame side) to enable fast installation and faultless positioning of the hinge on already assembled fixtures.
The special shape of fixing plate fitted to the sash (Giesse RAPID system) guarantees the firmest possible attachment of the hinge to the profile.
Removable pin allowing separation of sash from frame without detaching the hinge from the profile.

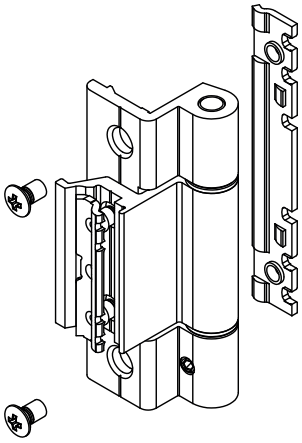
Materials

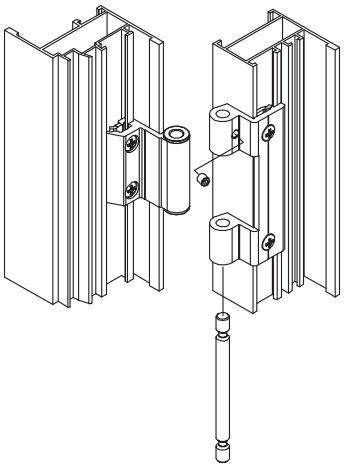
Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

Capacities

90 kg with 2 hinges
100 kg with 3 hinges







Item code	Description	PROFILE CROSS - SECTION	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00600N	BRIDGE 2 HINGE	C001-C002		90	100	X	X	X	X	20
00601N	BRIDGE 2 HINGE	C001	x	90	100	X	X	X	X	20
00602N	BRIDGE 2 HINGE	C007		90	100	X	X	X	X	20
00603N	BRIDGE 2 HINGE		x	90	100	X	X	X	X	20
00604N	BRIDGE 2 HINGE	C008		90	100	X	X	X	X	20
00605N	BRIDGE 2 HINGE		x	90	100		X	X	X	20
00606N	BRIDGE 2 HINGE	C009		90	100	X	X	X	X	20
00607N	BRIDGE 2 HINGE		x	90	100	X	X	X	X	20
00609N	BRIDGE 2 HINGE	C005		90	100	X	X	X		20

Note: For the «Third sash» hinges, check the correct series on Where-used.



CELERA HINGES

Functions

Clamp door hinge for profile with channel.
Side adjustment with door installed.

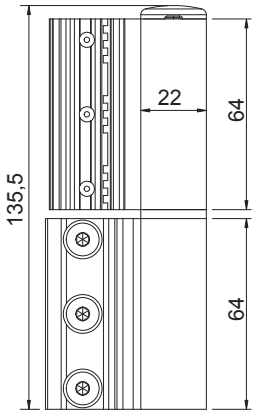
Online data sheet

Technical Features

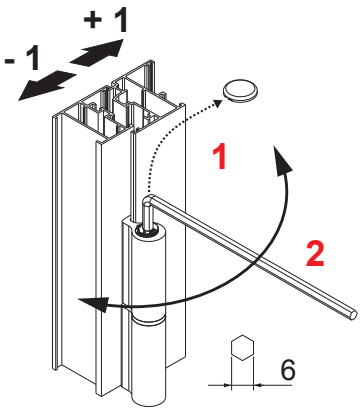
This hinge is suitable for doors subject to intensive use with high resistance to fatigue and wear.
Fixing plates of special geometry guarantee the firmest possible attachment on the profile channel.
The CELERA hinge is fitted extremely quickly to the sash and frame, even when the fixture has already been installed, thanks to the fixing plates that are pre-assembled to the hinge bodies (Giesse RAPID system).
It is therefore possible to apply an additional hinge (for example in the center) even after installation without having to dismantle the sash.
Side adjustment (±1 mm), obtainable by turning the eccentric bush in the sash hinge using a 6mm hex wrench.

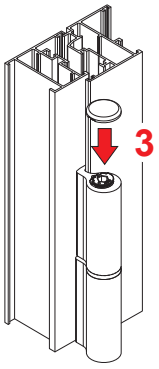
Materials

Extruded aluminium hinge bodies
Ø10 pin, fixing plates and fixing screws, all stainless steel
Eccentric bush, adjustment locking element and washer made of acetal resin
Polyamide cap



Side adjustment





Item code	Description	PROFILE CROSS - SECTION	Flush opening	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00681	CELERA HINGE	C001 - C002 - C005			100	120	CLASS 12	X	X	X		20
00682	CELERA HINGE	C007			100	120	-	X	X	X		20
00684	CELERA HINGE	see Where Used	X		100	120	CLASS 12	X	X	X		20
00685	CELERA HINGE	see Where Used			90	110	-	X	X	X		20
00687	CELERA HINGE	C008			90	110	-	X	X	X		20
00688	CELERA HINGE	C009			100	120	-	X	X	X		20
00689	CELERA HINGE	see Where Used			100	120	-	X	X	X		20
00690	CELERA HINGE	see Where Used		X	80	100	-	X	X	X	X	20



FULCRA HINGES

Functions

Clamp door hinge for profile with channel and adjustable in three directions (height, width and compression).
Thanks to the innovative adjustment system (patented) the two hinge bodies are always kept in line regardless of the sideways shift performed.

Online data sheet

Technical Features

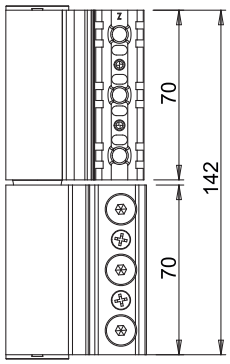
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
The innovative adjustment system (patented) makes it easier and more accurate to align the sash to the frame, always ensuring the perfect alignment of the two hinge bodies.
Fixing plates of special geometry guarantee the firmest possible attachment on both sides of the profile channel.
The additional strengthening screws on the frame plate increase the slip resistance.
The height adjustment device also acts as an axial bearing, increasing the resistance to fatigue of the hinge (durability grade 7* - 200,000 opening cycles).
Adjustments in the three directions:
- Side adjustment (+/- 2 mm.), using an Allen key on the eccentric pin, then locking it in the desired position by means of two grub screws.
- Height adjustment (0/+ 3 mm.), using an Allen key on the grub screw integral with the frame hinge body.
- Compression adjustment (+/- 0,5 mm.), obtainable by turning the eccentric bush in the frame hinge body.
(*) Complies with EN1935

Materials

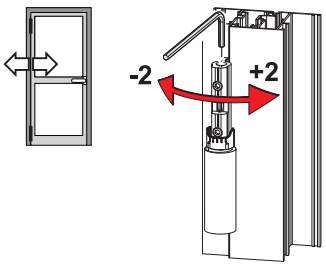
Extruded aluminium hinge bodies
Stainless steel pin
Zamak grub screw for vertical adjustment with sealed galvanised finish
Stainless steel fixing plates, grub screws and screws
Eccentric technopolymer bush
Polyamide plugs and centering bushing

Capacities

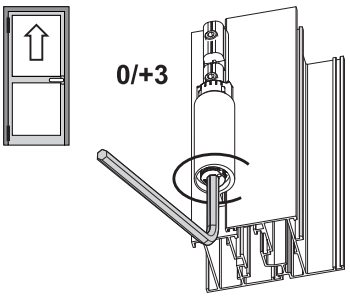
120 kg with 2 hinges
150 kg with 3 hinges
CE Mark in compliance EN1935



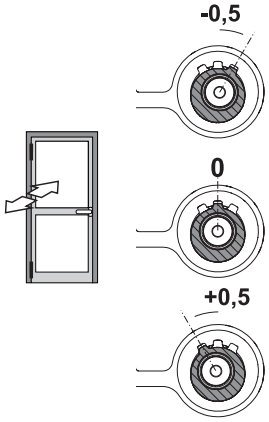
Side adjustment



Height adjustment



Compression adjustment



Item code	Description	PROFILE CROSS - SECTION	Flush opening	Opening	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00700	FULCRA HINGE EURO GROOVE	C001	-	Internal	120	150	Class 13	X	X	X	X	10
00701	FULCRA HINGE R40	C007-C008	-	Internal	120	150	Class 12	X	X	X	X	10
00702	FULCRA HINGE OUTWARD OPENING EURO GROOVE	see Where Used	Yes	External	100	120	Class 11	X	X	X	X	10
00703	FULCRA ALU 16 HINGE	see Where Used	-	Internal	110	130	Class 12	X	X	X		10



FLASH XXL HINGES

Functions

Clamp door hinge for profile with channel, adjustable in two directions with door installed.
For combination with aluminium covers purchased separately from the hinge.

Online data sheet

Technical Features

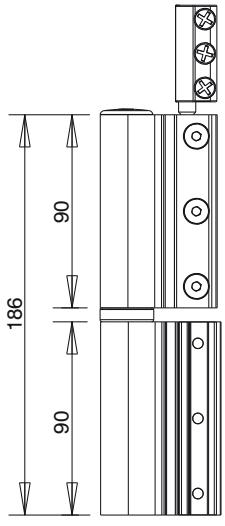
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
The thrust bearing located between the two hinge bodies increases resistance of the hinge to fatigue and wear (durability grade 7* - 200,000 test cycles).
The frame hinge leaf is fixed to the profile with self-tapping screws passing through the hinge body, to increase the stability of the system.
Totally or partially removable pin, allowing assembly of sash to frame even in situations where space is markedly restricted.
Adjustments in two directions with door installed:
- side adjustment (±1 mm), obtainable by turning the eccentric bush in the sash part of the hinge with special key item 03900.
- height adjustment (-2/+4 mm) obtainable by means of sash lift support block supplied with the hinge, to be positioned against the top hinge sash leaf
The hinge is to be coupled to the covers for the sash hinge and frame hinge (art. 00599), can be painted and coated, sold separately. Fitting the cover on completing installation avoids damaging the visible parts of the hinge during assembly, transport and installation.
Special preload plate supplied with the product, to be positioned against the sash part of the bottom hinge, guaranteeing correct alignment of sash and frame under high loading conditions.
The plate can also be purchased separately (item 00591) as a replacement for the standard plates supplied with the hinge, when assembling doors with three hinges, including a centrally positioned third hinge.
* Complies with EN 1935

Materials

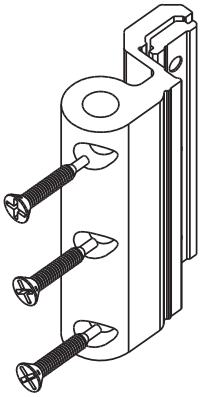
Extruded aluminium hinge bodies, anodized black
Ø10 pin, thrust bearing, screws and grub screw, all stainless steel
Eccentric bush, acetal resin
Extruded aluminium fixing plates
Extruded aluminium preload plate
Lift support block, diecast zamak
Height adjustment grub screw, zinc-coated steel
Polyamide cap
Extruded aluminium cover

Capacities

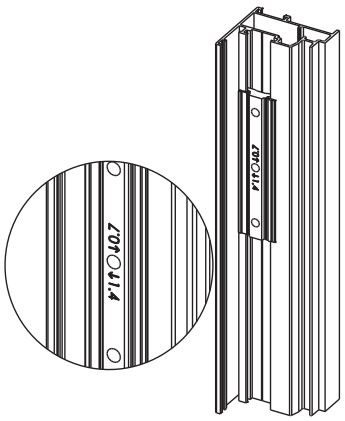
160 kg with 2 hinges
180 kg with 3 hinges
CE Mark in compliance EN1935



Self-tapping screws

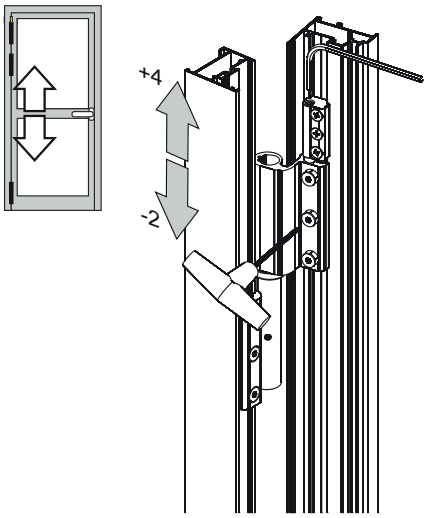


Preload plate

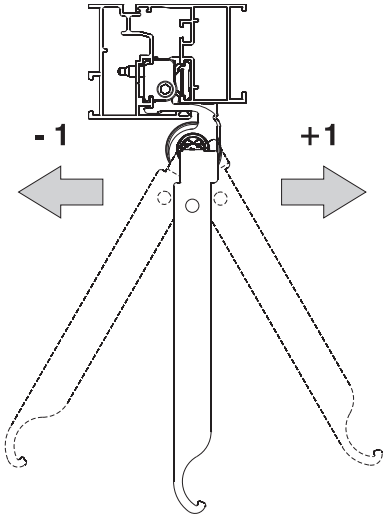


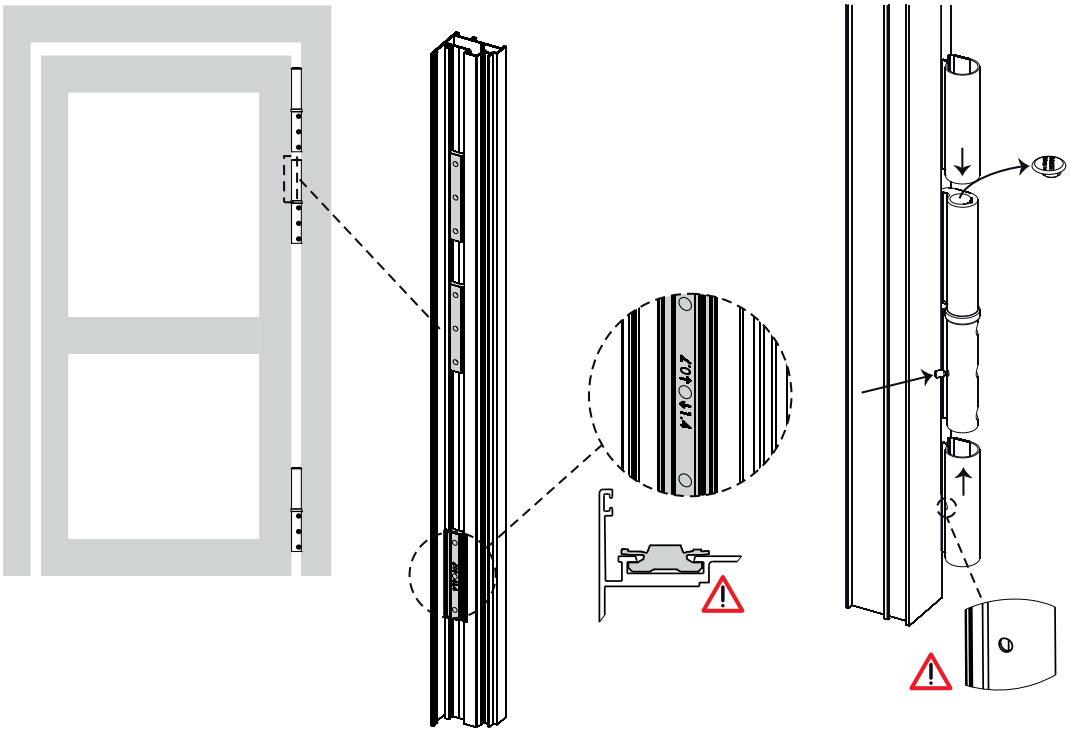
CLAMP DOOR HINGES

Height adjustment



Side adjustment





Item code	Description	PROFILE CROSS - SECTION	Step	Flush opening	Third sash	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00561	FLASH XXL FIXING PLATES	C001	-	-	-	-	-	-	X				10
00591	FLASH XXL PRE-LOAD FIXING PLATES	C001-C002	-	-	-	-	-	-	X				10
00598N	FLASH XXL HINGE	C001	8 mm max	-	-	160	180	Class 14		X			20
00599	COVER, FLASH XXL HINGE	C001	-	-	-	-	-	-	X	X	X	X	20



FLASH XLR HINGES

Functions

Clamp door hinge for profile with channel.
Adjustable in two directions.

Online data sheet

Technical Features

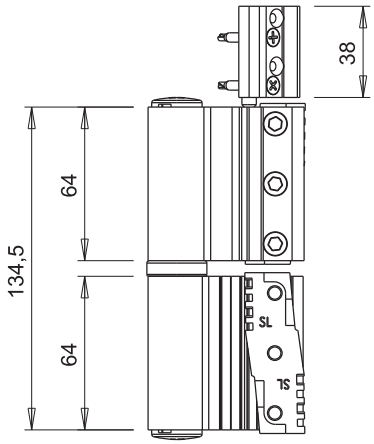
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Fixing plates of special geometry, insertable from the side into the channel of the sash and frame profiles when already assembled, guarantee the firmest possible attachment to the profile.
The thrust bearing located between the two hinge bodies increases resistance of the hinge to fatigue and wear (durability grade 7* - 200,000 test cycles).
Adjustments in two directions with door installed:
- side adjustment (±2 mm), obtainable by turning the eccentric bushes in the hinges with special key item 03900
- height adjustment (-2/+4 mm) obtainable by means of sash lift support block supplied with the hinge, to be positioned against the sash leaf.
* Complies with EN 1935

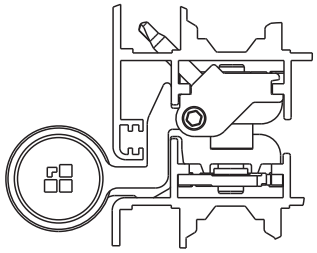
Materials

Extruded aluminium hinge bodies
Ø10 pin, thrust bearing, fixing plates and fixing screws, all stainless steel
Lift support block, extruded aluminium
Height adjustment grub screw, stainless steel
Eccentric bushes, acetal resin
Polyamide caps

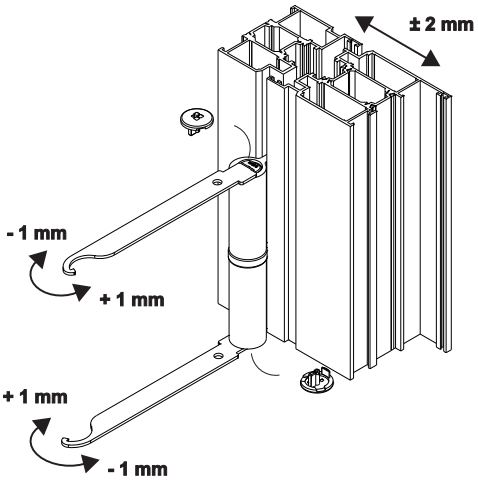
Capacities

120 kg with 2 hinges
140 kg with 3 hinges

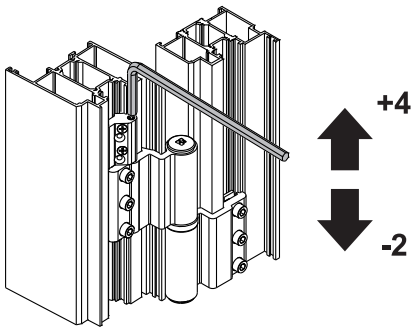




Side adjustment

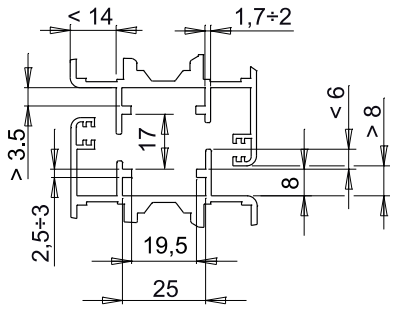


Height adjustment

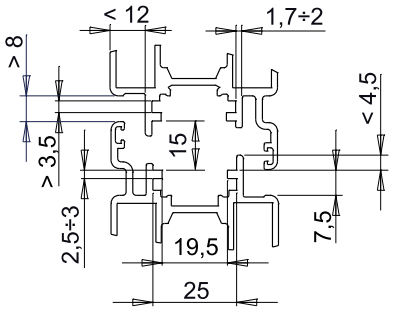


CLAMP DOOR HINGES

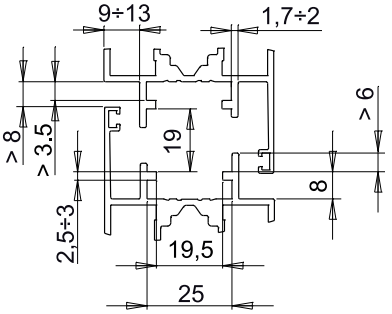
Section 1



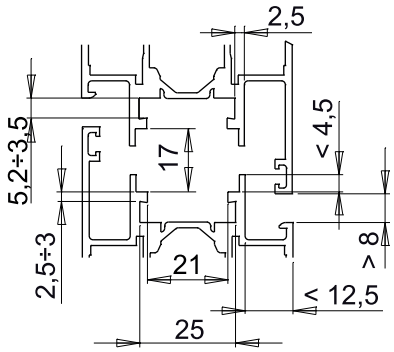
Section 2



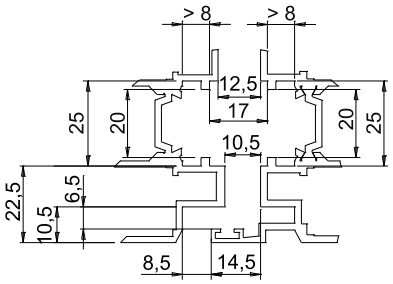
Section 3



Section 5



Section 6



Item code	Description	Application reference section	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00925N	FLASH XLR HINGE	section 1	120	140	X	X	X		20
00926N	FLASH XLR HINGE	section 2	120	140	X	X	X		20
00927N	FLASH XLR HINGE	section 3	120	140	X	X	X		20
00929N	FLASH XLR HINGE	section 5	120	140	X	X	X		20
00930	FLASH XLR HINGE	section 6	120	140	X	X	X		20



FLASH SLR HINGES

Functions

Clamp door hinge for profile with channel.
Adjustable in one direction.

Online data sheet

Technical Features

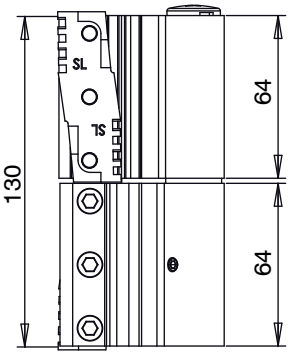
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use).
Fixing plates of special geometry, insertable from the side into the channel of the sash and frame profiles when already assembled, guarantee the firmest possible attachment to the profile.
Side adjustment (±1 mm) obtainable with door installed by turning the eccentric bush in the sash part of the hinge with special key item 03900.
With the removable pin, the sash can be separated from the frame without lifting (e.g. where space is restricted).
* Complies with EN 1935

Materials

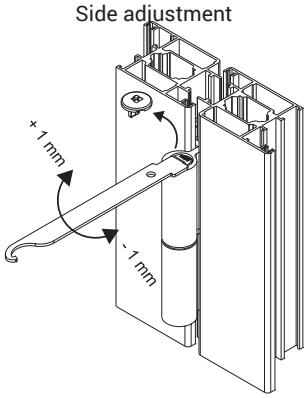
Extruded aluminium hinge bodies
Ø10 pin, fixing plates and fixing screws, all stainless steel
Eccentric bush and washer, acetal resin
Polyamide cap

Capacities

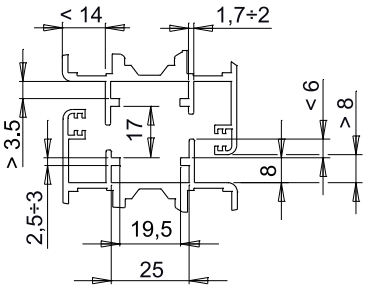
120 kg with 2 hinges
140 kg with 3 hinges

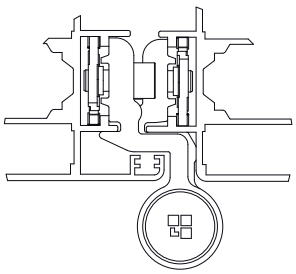


Side adjustment



Section 1





Item code	Description	Application reference section	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00940	FLASH SLR HINGE	section 1	120	140	X	X	X		20



BRIDGE HINGES

Functions
Front mounting clamp hinge, for lightweight doors and windows.

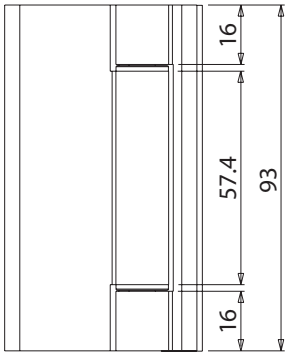
Online data sheet

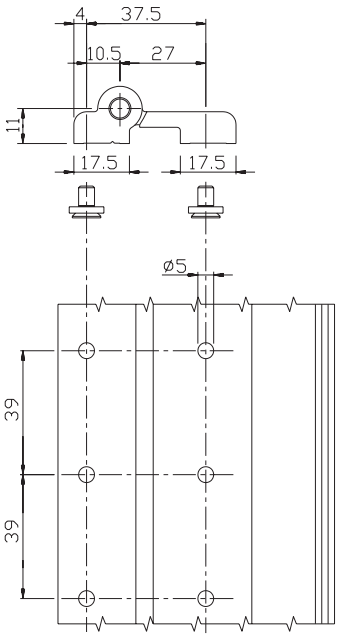
Technical Features
With a completely removable pin, the sash can be separated from the frame without detaching the hinge from the profile.
The pin is held fast internally of the hinge body by a grubscrew, accessible only when the sash is open.
Fixing to the hinge is by means of the plates, supplied with the hinge, which are inserted into the hollow section and/or the shoulder of the profile.
The profile is drilled with the aid of template item 03218.

Materials
Extruded aluminium hinge bodies
Pin, fixing plates, screws and grub screw, all stainless steel
Acetal resin bushes

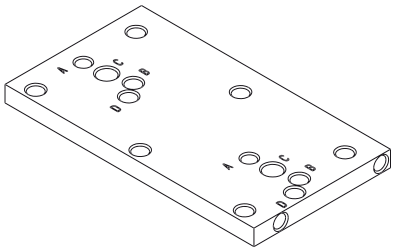
Parts
2 fixing plates
6 TPS M5x10 screws
1 Grub screw M5x6

Capacities
75 kg with 2 hinges
85 kg with 3 hinges

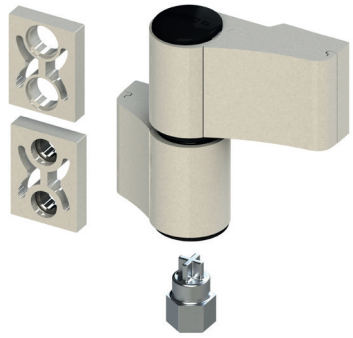




Profile machining template item 03218



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00112N	SURFACE MOUNTING BRIDGE HINGE		X	X	X		20



DOMINA CLASSIC HINGE

Functions

Surface mounting hinge, 2 or 3 wing version for heavy doors made of aluminium.
Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Online data sheet

Technical Features

Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles).
Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustments in three directions:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the adjustment screw located in the sash hinge cartridge
- micrometric vertical adjustment (0-4 mm) with door installed, obtainable by turning the grub screw located at the bottom of the frame part of the hinge, using the special adapter supplied with the product
- compression adjustment (± 0.5 mm), obtainable by turning the eccentric bush in the frame part of the hinge to the angular position required.
Screw-cover plates fixed to hinge using pull screws driven from the inside (for locking purposes use clip item 05051), removable only with the sash open (tamper-proof).
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237 and item 05052
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
* Complies with EN 1935

Ask to your sales rep for product availability.

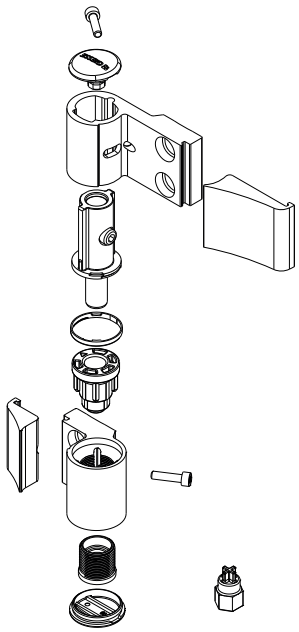
Materials

Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø11 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Eccentric cartridge, cover ring and vertical set-screw, acetal resin
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps

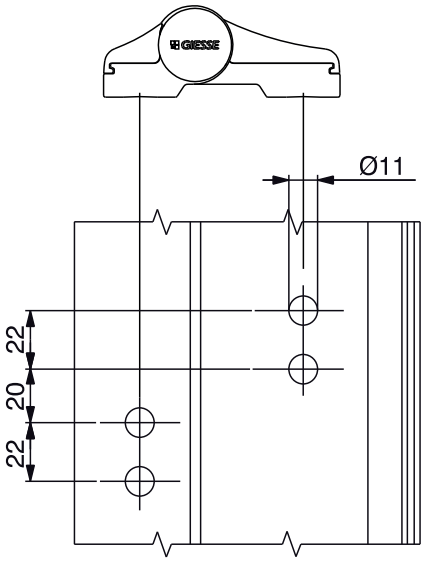
Capacities

Up to 120 kg with two 2-wing hinges
Up to 140 kg with three 2-wing hinges
Up to 160 kg with two 3-wing hinges
Up to 180 kg with three 3-wing hinges
CE Mark in compliance EN1935

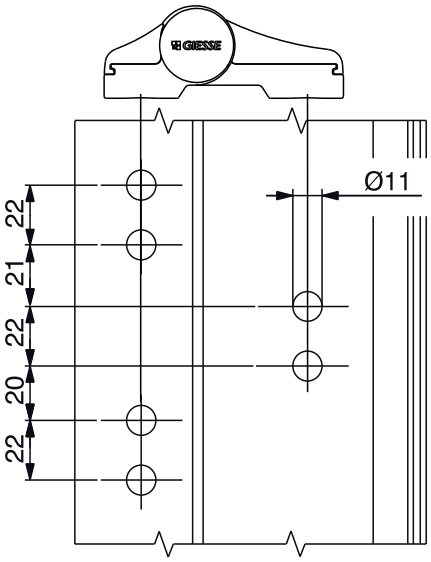
FRONTAL APPLICATION DOOR HINGES



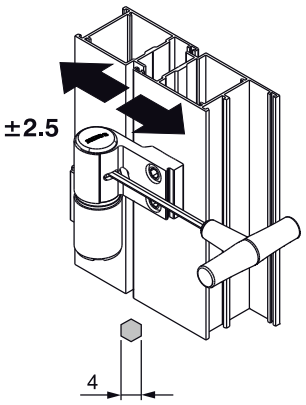
Machining on profile (2 wings)



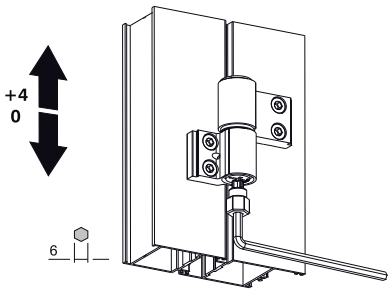
Machining on profile (3 wings)



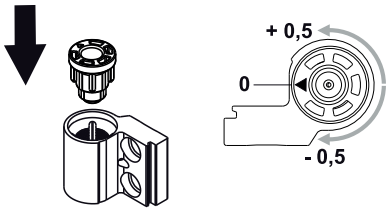
Side adjustment



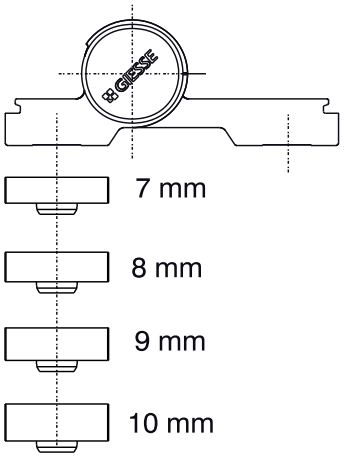
Height adjustment



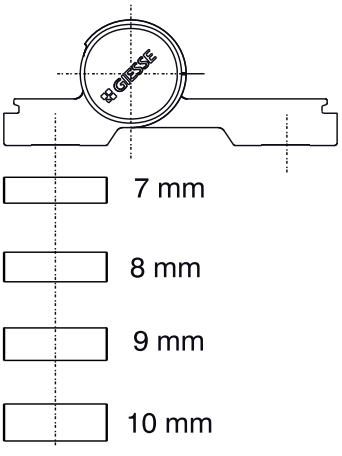
Compression adjustment



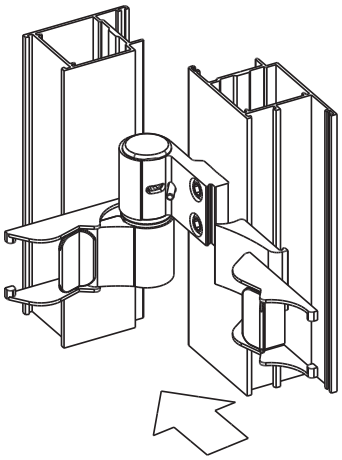
Steps with bushes

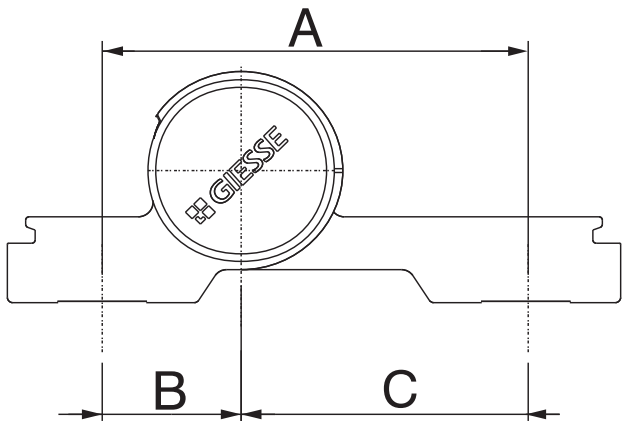


Steps without bushes

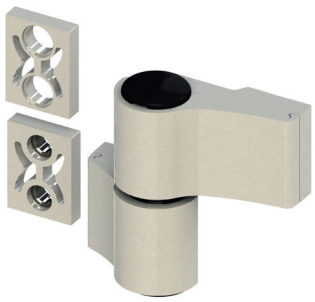


Use of locking clips





Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06170	DOMINA CLASSIC	2 leaf	62,5	20,5	42	120	140	Class 13	X	X	X	X	10
06171	DOMINA CLASSIC	3 leaf	62,5	20,5	42	160	180	Class 14	X	X	X		10
06172	DOMINA CLASSIC	2 leaf	70,5	20,5	50	100	120	Class 12	X	X	X		10
06173	DOMINA CLASSIC	3 leaf	70,5	20,5	50	120	140	Class 13	X	X	X		10
06174	DOMINA CLASSIC	2 leaf	78	20,5	57,5	100	120	Class 12	X	X	X		10
06175	DOMINA CLASSIC	3 leaf	78	20,5	57,5	120	140	Class 13	X	X	X		10
06176	DOMINA CLASSIC	2 leaf	84	42	42	100	120	Class 12	X	X	X		10
06177	DOMINA CLASSIC	3 leaf	84	42	42	120	140	Class 13	X	X	X		10
06178	DOMINA CLASSIC	2 leaf	92	42	50	80	100	Class 11	X	X	X		10
06179	DOMINA CLASSIC	3 leaf	92	42	50	100	120	Class 12	X	X	X		10
06180	DOMINA CLASSIC	2 leaf	99,5	42	57,5	80	100	Class 11	X	X	X		10
06181	DOMINA CLASSIC	3 leaf	99,5	42	57,5	100	120	Class 12	X	X	X		10
06168	INDUSTRIAL DOMINA CLASSIC	2 leaf	62,5	20,5	42	120	140	Class 13	X	X	X		20
06169	INDUSTRIAL DOMINA CLASSIC	3 leaf	62,5	20,5	42	160	180	Class 14	X		X		20



DOMINA HP HINGE

Functions

Surface mounting hinge, 2 or 3 wing version (Giesse patent) for heavy doors made of aluminium.
Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Online data sheet

Technical Features

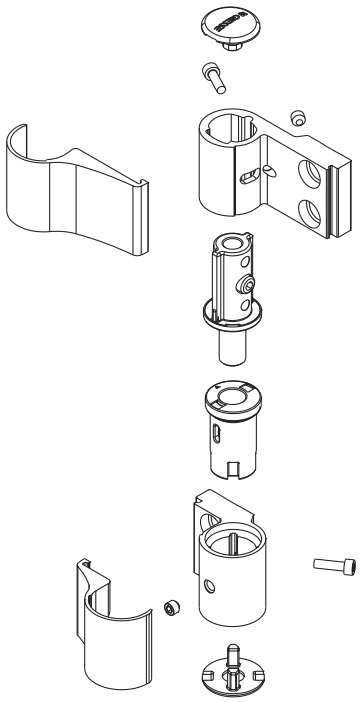
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw on the sash hinge locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm) obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The locking grub screw, located on the frame hinge, locks the compression adjustment leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the hinge. Insertion of the lower plug guarantees that the height adjustment is maintained.
The internal parts of the hinge are completely preassembled in two groups:
• pin cartridge for side adjustment
• cartridge with thrust bush for height and compression adjustments
Screw-cover plates fixed to hinge using pull screws driven from the inside, removable only with the sash open (tamper-proof).
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237, item 05052 and item 03286 (for c/c distance 55.5).
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
* Complies with EN 1935

Materials

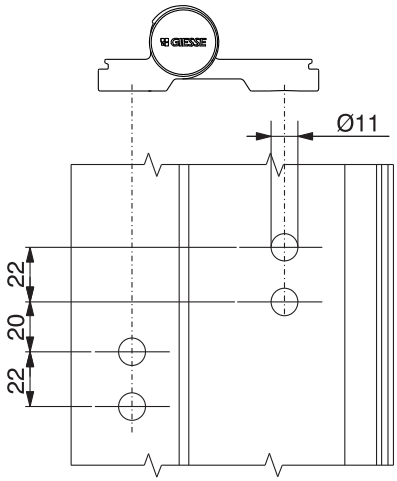
Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge and bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Thrust bush, acetal resin
Grub screws and vertical adjustment setscrew, stainless steel
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps

Capacities

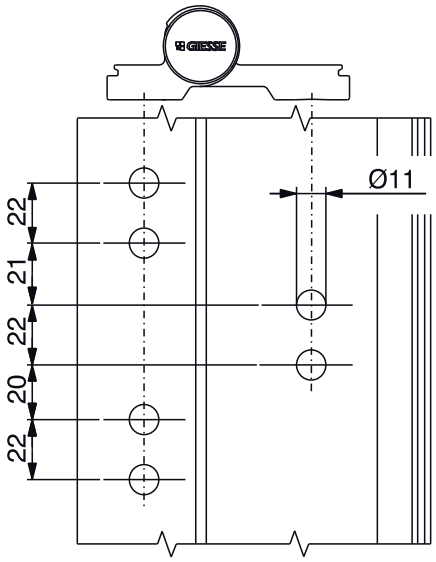
Up to 160 kg with two 2-wing hinges
Up to 180 kg with three 2-wing hinges
Up to 180 kg with two 3-wing hinges
Up to 200 kg with three 3-wing hinges
CE Mark in compliance EN1935



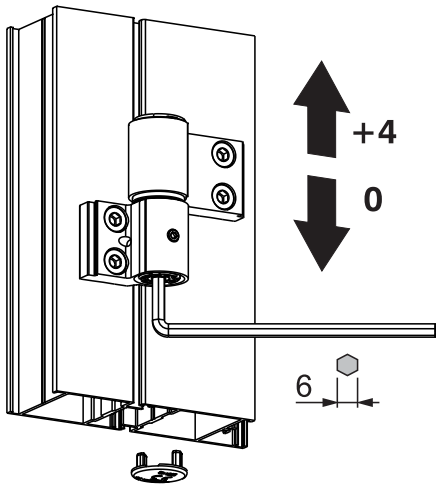
Preparation of profile for two-leaf hinge



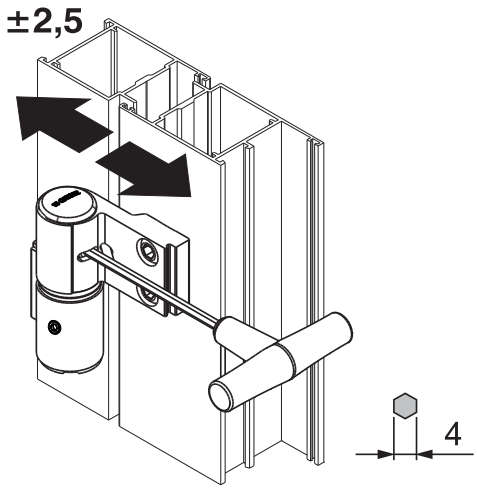
Machining on profile for three-wing hinge



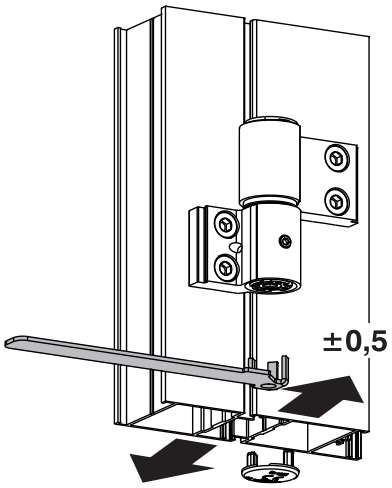
Height adjustment



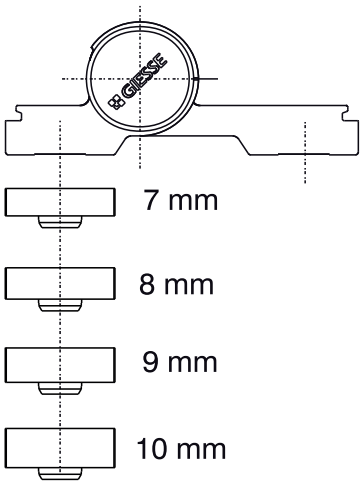
Side adjustment



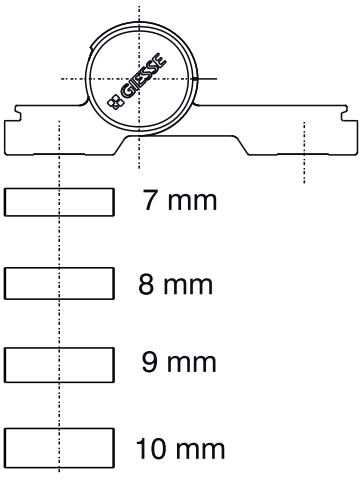
Compression adjustment



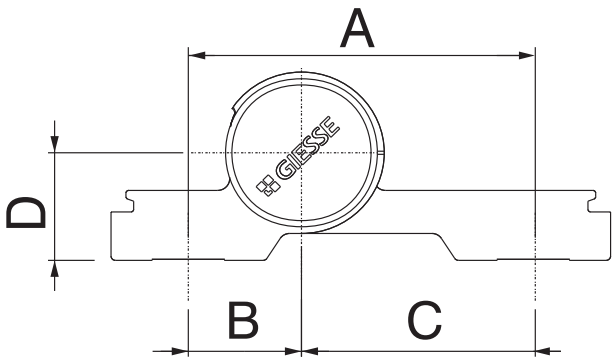
Steps with bushes



Steps without bushes



FRONTAL APPLICATION DOOR HINGES



Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05158V	DOMINA HP	2 leaf	55,5	13,5	42		120	140	Class 12	X	X	X		10
05159V	DOMINA HP	2 leaf	55,5	13,5	42	28	120	140	Class 12	X	X	X		10
05160V	DOMINA HP	2 leaf	62,5	20,5	42		160	180	Class 14	X	X	X	X	10
05161V	DOMINA HP	3 leaf	62,5	20,5	42		180	200	Class 14	X	X	X	X	10
05162V	DOMINA HP	2 leaf	70,5	20,5	50		120	140	Class 13	X	X	X	X	10
05163V	DOMINA HP	3 leaf	70,5	20,5	50		140	160	Class 12		X	X	X	10
05164V	DOMINA HP	2 leaf	78	20,5	57,5		120	140	Class 13	X	X	X	X	10
05165V	DOMINA HP	3 leaf	78	20,5	57,5		140	160	Class 12		X	X	X	10
05166V	DOMINA HP	2 leaf	84	42	42		120	140	Class 13	X	X	X	X	10
05167V	DOMINA HP	3 leaf	84	42	42		140	160	Class 12	X	X	X	X	10
05168V	DOMINA HP	2 leaf	92	42	50		100	120	Class 12	X	X	X	X	10
05169V	DOMINA HP	3 leaf	92	42	50		120	140	Class 12		X	X	X	10
05170V	DOMINA HP	2 leaf	99,5	42	57,5		100	120	Class 12	X	X	X		10
05171V	DOMINA HP	3 leaf	99,5	42	57,5		120	140	Class 12	X	X	X		10
05172V	DOMINA HP	2 leaf	62,5	20,5	42	36	160	180	Class 13	X	X	X		10
05174V	DOMINA HP	2 leaf	62,5	20,5	42	27	160	180	Class 13	X	X	X		10
05175V	DOMINA HP	3 leaf	62,5	20,5	42	27	180	200	Class 14	X	X	X		10
05176V	DOMINA HP	2 leaf	62,5	20,5	42	28	160	180	Class 13	X	X	X		10
05177V	DOMINA HP	3 leaf	62,5	20,5	42	28	180	200	Class 14	X	X	X		10
05178V	DOMINA HP	2 leaf	62,5	20,5	42	30	160	180	Class 13	X	X	X		10
05179V	DOMINA HP	3 leaf	62,5	20,5	42	30	180	200	Class 14	X	X	X		10



DOMINA HP HINGE, CORNER

Functions

Surface mounting corner hinge, 2-wing version for heavy doors made of aluminium.
Adjustable in three directions.
For combination with counterplate kit, with expansion dowels for single-groove profiles and with M12 direct fixing screw for thermal break profile (sash side only).

Online data sheet

Technical Features

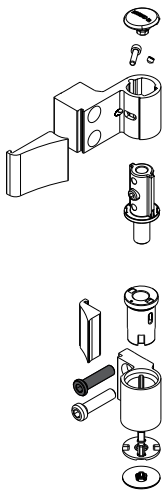
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw, located on the sash hinge, locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm), obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The special plug locks the compression adjustment, leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the frame part of the hinge
The frame hinge component is equipped with centering bushes.
The internal parts of the hinge are completely preassembled in two groups:
- pin cartridge for side adjustment
- cartridge with thrust bush for height and compression adjustments
The screw concealer plate of the frame hinge leaf cannot be removed from the outside and the screw concealer plate of the sash hinge leaf is secured by a pull screw driven from the inside, likewise removable only with the sash open (tamper-proof).
The hinge can be combined with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill template item 05050.
The hinge is supplied with two M8 screws of dissimilar length that replace those supplied with the kit selected for fixing to the frame profile.
The locking clip, item 05051, facilitates the operation of fixing the screw-cover plates to the hinge.
* Complies with EN 1935

Materials

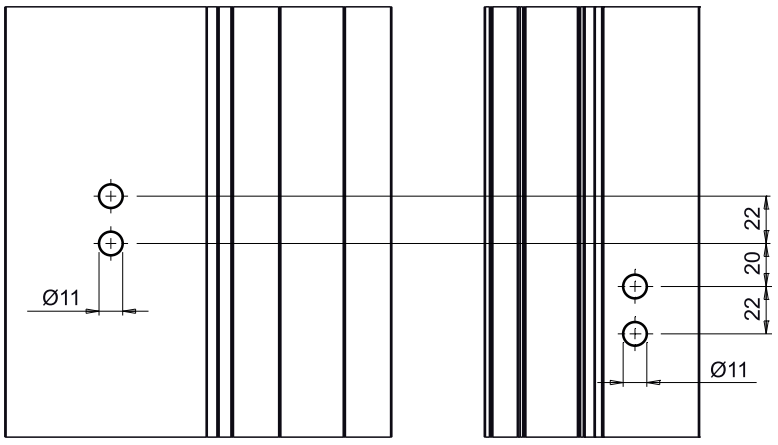
Extruded aluminium hinge bodies and screw-cover plates
Zamak pin cartridge and eccentric bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Centering bushes, zinc-coated steel
Thrust bush, acetal resin
Grub screw and vertical adjustment setscrew, stainless steel
Polyamide concealer caps
Screw concealer plate fixing screws, zinc-coated steel

Capacities

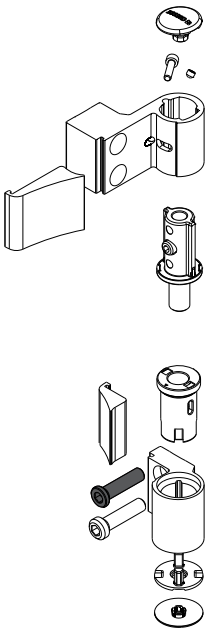
120 kg with two hinges
140 kg with three hinges



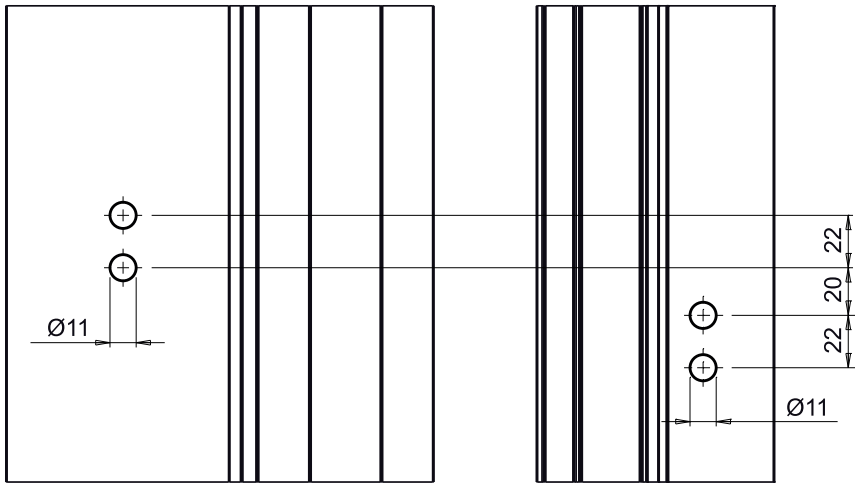
Machining on profile



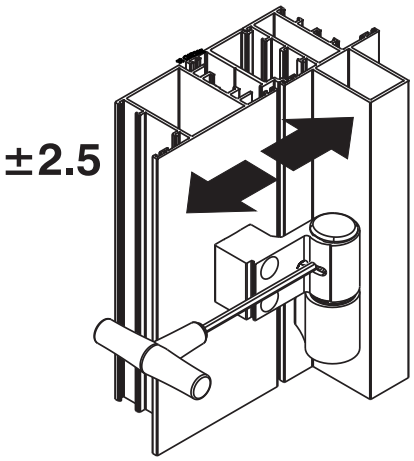
FRONTAL APPLICATION DOOR HINGES



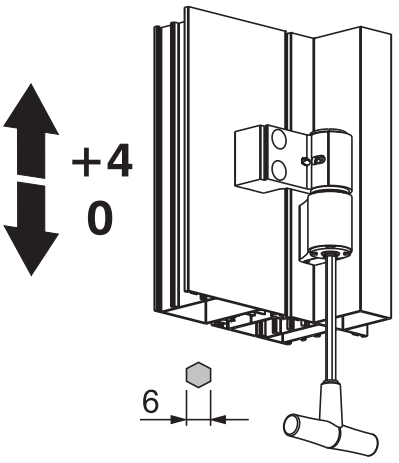
Machining on profile



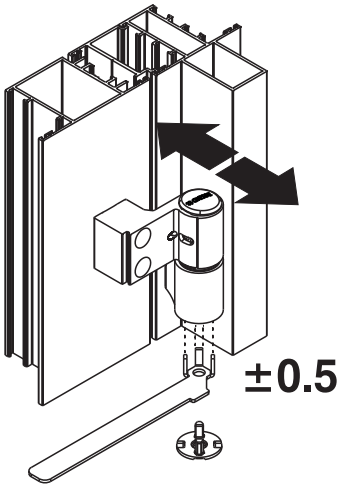
Side adjustment

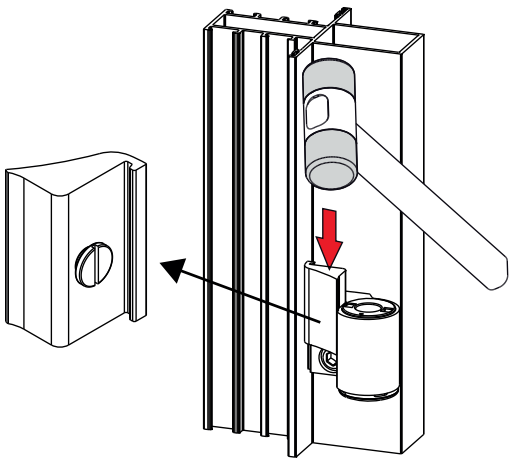


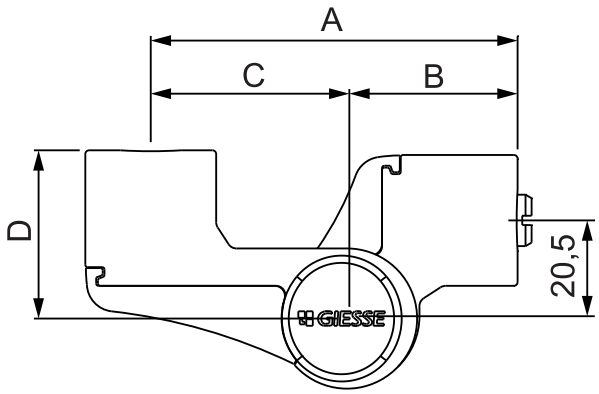
Height adjustment



Compression adjustment







Item code	Description	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	load capacity 2 hinges [kg]	load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05180N	DOMINA HP CORNER	2 leaf	62,5	20,5	42		120	140	Class 13	X	X	X		10
05182N	DOMINA HP CORNER	2 leaf	78,5	36,5	42	36	120	140	Class 13		X	X		10



DOMINA HP HINGE, COVER

Functions

Surface mounting hinge, 2 or 3 wing version (Giesse patent) for heavy doors made of aluminium.
Adjustable in three directions.
For combination with paintable covers purchased separately.
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screw for thermal break profiles.

Online data sheet

Technical Features

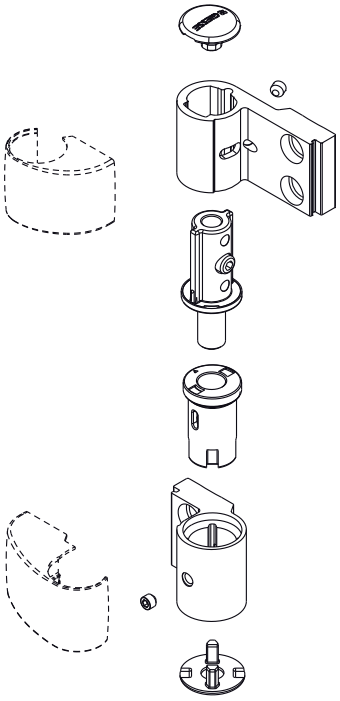
Hinge suitable for doors subject to intensive use (use category 4* - heavy duty use) with high resistance to fatigue and wear (durability grade 7* - 200,000 test cycles). Ideal for the assembly of doors characterized by large dimensions, heavy weight and intensive use.
Adjustable in 3 directions with or without door installed:
- micrometric side adjustment (±2.5 mm) with door installed, obtainable by turning the side adjustment screw located in the sash hinge cartridge. The locking grub screw on the sash hinge locks the side adjustment cartridge in the chosen position.
- compression micrometric adjustment (±0.5 mm) obtainable by turning the bushing of the frame hinge (adjuster key art.05053). The locking grub screw, located on the frame hinge, locks the compression adjustment leaving access to the height adjustment.
- micrometric vertical adjustment (0/+4 mm), obtainable by turning the grub screw located at the bottom of the frame hinge. Insertion of the lower plug guarantees that the height adjustment is maintained.
The internal parts of the hinge are completely preassembled in two groups:
• pin cartridge for side adjustment
• cartridge with thrust bush for height and compression adjustments
For combination with counterplate kit, with expansion dowels for single sealed unit profiles and with M12 direct fixing screws for thermal break profiles.
Profile can be prepared with Ø11 mm holes (for all fixing systems) using drill templates item 03237 and item 05052.
The hinge does not have screw-cover plates and is used in combination with paintable covers (purchased separately), secured to the hinge by pull screws driven from the inside and removable only with the sash open (tamper-proof).
When applied to a non-flush profile, the hinge is fitted in combination with shim steps selected according to the type of fixing used for the profile:
- steps with centering bushes: for counterplate kit and expansion dowels for single sealed unit profile
- steps without centering bushes: for M12 direct fixing screws.
and to the relative extruded aluminium concealer which combines with the cover to encase the hinge completely.
* Complies with EN 1935

Materials

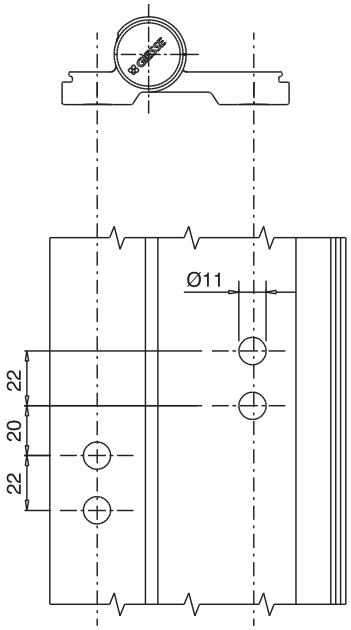
Hinge
Extruded aluminium hinge bodies, anodized black
Zamak pin cartridge and bush cartridge with GS Silver Plus finish (up to 500 h corrosion resistance)
Ø12 pin, stainless steel
Side adjustment screw made of treated steel ensuring high resistance to corrosion
Thrust bush, acetal resin
Grub screws and vertical adjustment setscrew, stainless steel
Screw concealer plate fixing screws, zinc-coated steel
Polyamide concealer caps
Cover
Zamak covering for hinge
Cover for extruded aluminium shim steps
Hinge cover fixing screws, zinc-coated steel

Capacities

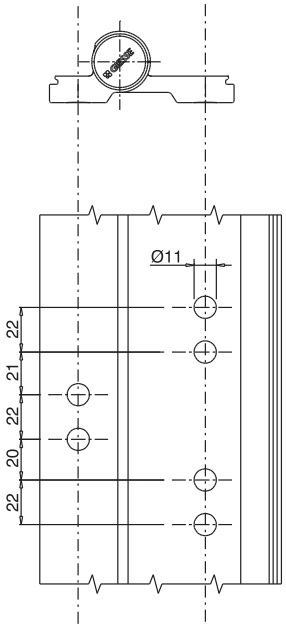
Up to 160 kg with two 2-wing hinges
Up to 180 kg with three 2-wing hinges
Up to 180 kg with two 3-wing hinges
Up to 200 kg with three 3-wing hinges
CE Mark in compliance EN1935



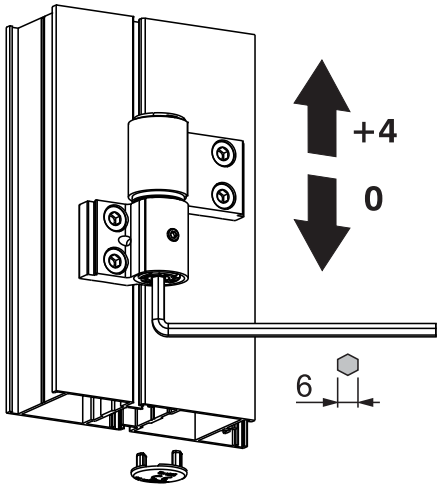
Preparation of profiles for 2-wing hinge



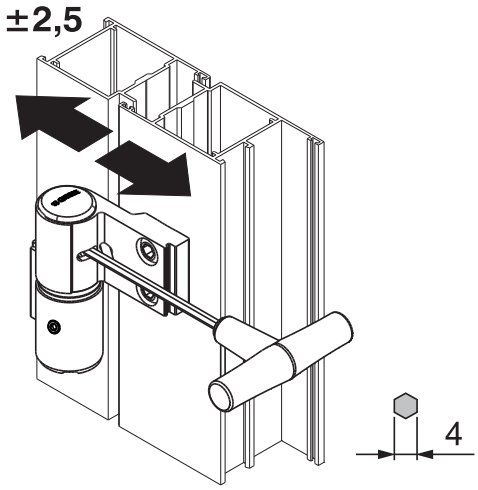
Preparation of profiles for 3-wing hinge



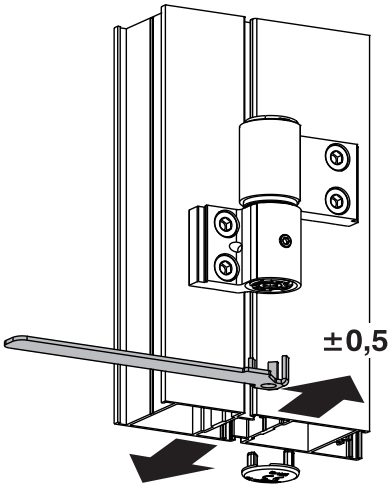
Height adjustment



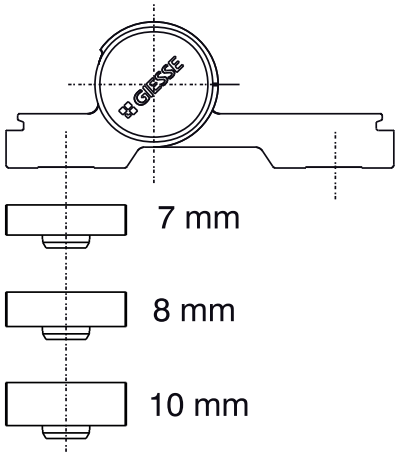
Side adjustment



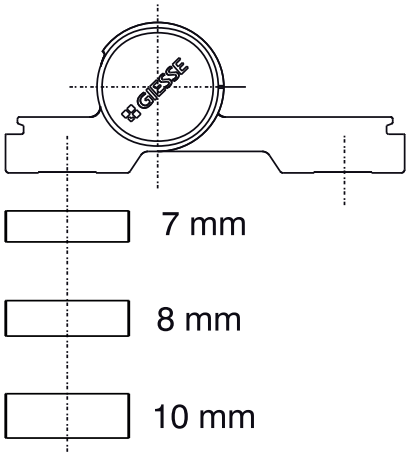
Compression adjustment



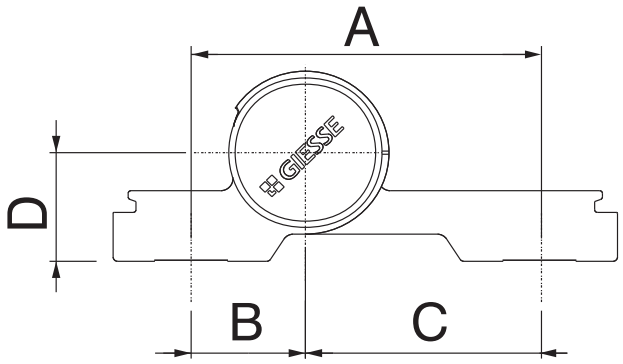
Steps with bushes



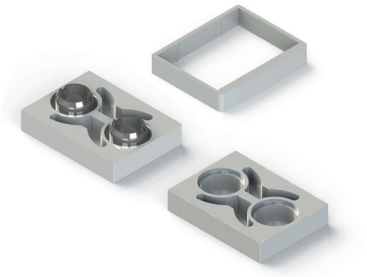
Steps without bushes



FRONTAL APPLICATION DOOR HINGES



Item code	Description	COVER code	Version	C/C distance A [mm]	B [mm]	C [mm]	Lift D [mm]	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	CE marking	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05120V	DOMINA HP COVER	06120N	2 leaf	62,5	20,5	42		160	180	Class 14		X			10
05121V	DOMINA HP COVER	06121N	3 leaf	62,5	20,5	42		180	200	Class 14		X			10
05122V	DOMINA HP COVER	06122N	2 leaf	70,5	20,5	50		120	140	Class 13		X			10
05123V	DOMINA HP COVER	06123N	3 leaf	70,5	20,5	50		140	160	Class 12		X			10
05124V	DOMINA HP COVER	06124N	2 leaf	78	20,5	57,5		120	140	Class 13		X			10
05125V	DOMINA HP COVER	06125N	3 leaf	78	20,5	57,5		140	160	Class 12		X			10
05126V	DOMINA HP COVER	06126N	2 leaf	84	42	42		120	140	Class 13		X			10
05127V	DOMINA HP COVER	06127N	3 leaf	84	42	42		140	160	Class 12		X			10
05128V	DOMINA HP COVER	06128N	2 leaf	92	42	50		100	120	Class 12		X			10
05129V	DOMINA HP COVER	06129N	3 leaf	92	42	50		120	140	Class 12		X			10
05130V	DOMINA HP COVER	06130N	2 leaf	99,5	42	57,5		100	120	Class 12		X			10
05131V	DOMINA HP COVER	06131N	3 leaf	99,5	42	57,5		120	140	Class 12		X			10
05132V	DOMINA HP COVER	06132N	2 leaf	62,5	20,5	42	36	160	180	Class 13		X			10
05134V	DOMINA HP COVER	06134N	2 leaf	62,5	20,5	42	27	160	180	Class 13		X			10
05135V	DOMINA HP COVER	06135N	3 leaf	62,5	20,5	42	27	180	200	Class 14		X			10
05136V	DOMINA HP COVER	06136N	2 leaf	62,5	20,5	42	28	160	180	Class 13		X			10
05137V	DOMINA HP COVER	06137N	3 leaf	62,5	20,5	42	28	180	200	Class 14		X			10
05138V	DOMINA HP COVER	06138N	2 leaf	62,5	20,5	42	30	160	180	Class 13		X			10
05139V	DOMINA HP COVER	06139N	3 leaf	62,5	20,5	42	30	180	200	Class 14		X			10



DOMINA STEPS

Functions

Steps for combination with DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges for application to non-flush profiles.

Online data sheet

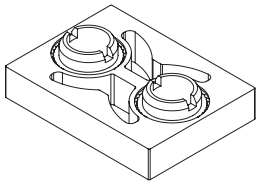
Technical Features

Steps of 7, 8, 9, 10 and 12 mm height for combination with hinges of the DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC range, flush version, designed to compensate for the step in the profile.
Compatible with C/C distances starting from 62,5mm.
Available in two versions:
• with centering bushes, used in combination with counterplate kit and expansion dowels for single sealed unit profiles
• without centering bushes, designed to accept M12 direct fixing screw for thermal break profile
The step, when used in combination with the Cover version hinge, is finished with the relative step concealer.

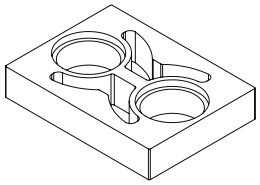
Materials

Extruded aluminium step
Centering bushes, zinc-coated steel; hinge bodies and screw-cover plates, extruded aluminium
Extruded aluminium cover

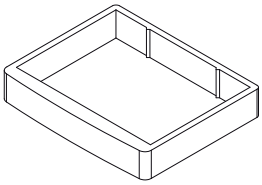
Step with bushes

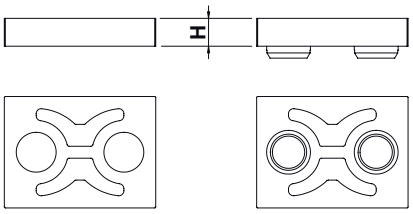


Step without bushes



Step cover





Item code	Description	H [mm]	Hinges HP	Hinges COVER	Hinges CLASSIC	Fixing with M12 screw	Fixing with Counterplate	Fixing with Expansion dowels	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05095	STEP 7 WITHOUT BUSHES	7	x	x	x	x			X	X	X		10
05096	STEP 8 WITHOUT BUSHES	8	x	x	x	x			X	X	X		10
05097	STEP 10 WITHOUT BUSHES	10	x	x	x	x			X	X	X		10
05098	STEP 9 WITHOUT BUSHES	9	x		x	x			X	X	X		10
05195	STEP 7 WITH BUSHES	7	x	x	x		x	x	X	X	X	X	10
05196	STEP 8 WITH BUSHES	8	x	x	x		x	x	X	X	X	X	10
05197	STEP 10 WITH BUSHES	10	x	x	x		x	x	X	X	X	X	10
05198	STEP 9 WITH BUSHES	9	x	x	x		x	x	X	X	X	X	10
05199	STEP 12 WITH BUSHINGS	12	x				x	x	X		X		10
06195N	COVER STEP COVER	7		x							X		10
06196N	COVER STEP COVER	8		x							X		10
06197N	COVER STEP COVER	10		x							X		10



COUNTERPLATE KIT

Functions

Counterplate inserted in the hollow section of the tubular profile for fixing Domina HP, Domina HP Cover and Domina Classic hinges.

Online data sheet

Technical Features

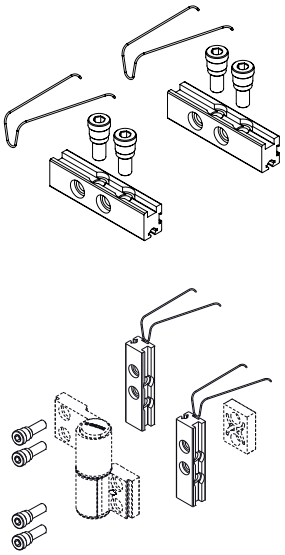
Available in version for 2 and 3 wing hinge, flush and with step, the kit comprises:
- two extruded aluminium fixing plates size 15x20 mm can be used on both sides to allow the greatest possible number of applications
- retaining springs
- M8x28 fixing screws with special hexagon head

When fitting the hinge with counterplates, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052, item 03286 (specifically for c/c distance 55.5) and item 05050 (specifically for corner hinges).
The frame mounted fixing plate of the 3-leaf version is longer than the plate supplied with the 2-leaf version, so that both of the two leaves can be secured using just the one component.

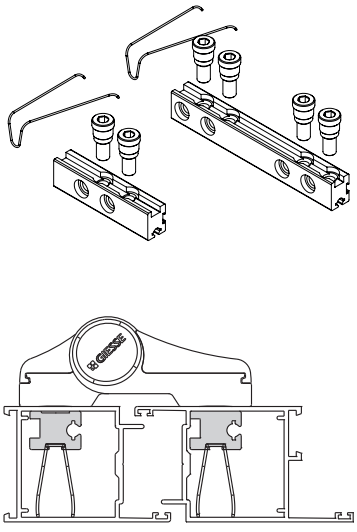
Materials

Extruded aluminium fixing plates
Retaining springs made of spring steel
Fixing screws, zinc-coated steel

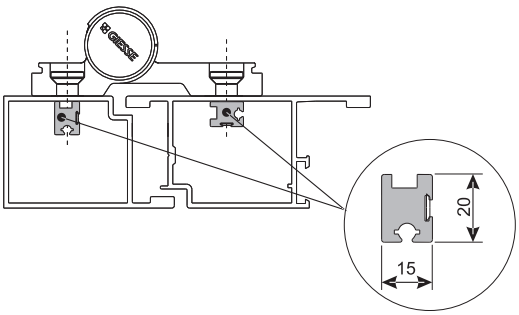
Two-wing version



Three-wing version



Application to profile



Item code	Description	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0520001	COUNTERPLATE KIT	for 2-wing hinge	X				10
0520101	COUNTERPLATE KIT	for 3-wing hinge	X				10
0520201	COUNTERPLATE KIT	for 2-wing hinge with step	X				10
0520301	COUNTERPLATE KIT	for 3-wing hinge with step	X				10



DIRECT FIXING SCREWS

Functions

M12 screw for direct fixing of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges to thermal break profiles.

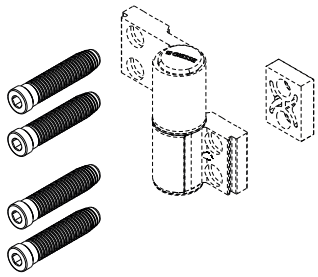
Online data sheet

Technical Features

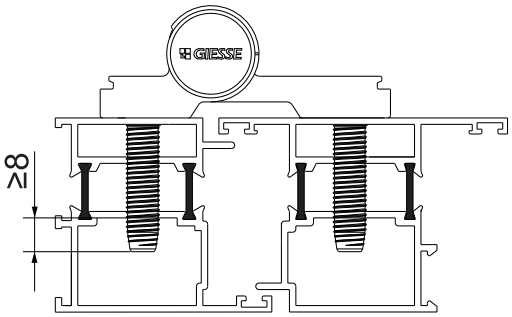
Using the M12 direct fixing screw, DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges can be fitted to thermal break type profiles without using counterplates located internally of the hollow section (*).
Available in four different lengths:
W = 55 mm
W = 65 mm
W = 75 mm
W = 90 mm
When fitting hinges with the direct fixing screw, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052 and item 05050 (specifically for corner hinges).
(*) Except for Domina HP and Domina HP Cover hinge, c/c distance 55.5

Materials

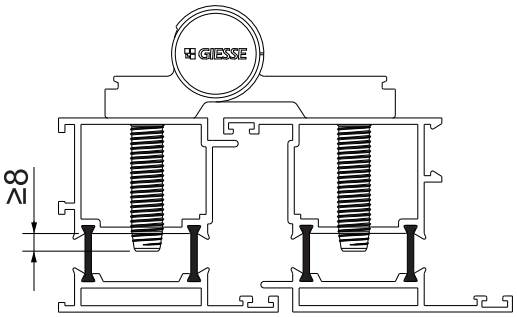
Zinc-coated steel fixing screw



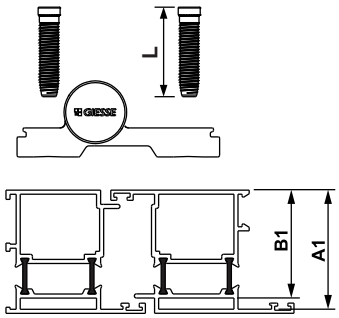
Outward opening



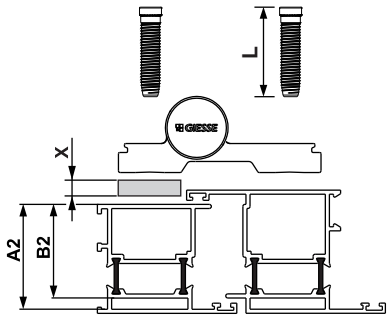
Inward opening



Flush hinge



Hinge combined with step
X: 7 - 8 - 9 - 10 mm



Item code	Description	L [mm]	A1 [mm]	B1 [mm]	A2 [mm]	B2 [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05300	DIRECT FIXING SCREW M12x55	55	≥ 42	≤ 34	≥ 42-X	≤ 34-X	X				20
05301	DIRECT FIXING SCREW M12x65	65	≥ 52	≤ 44	≥ 52-X	≤ 44-X	X				20
05302	DIRECT FIXING SCREW M12x75	75	≥ 62	≤ 54	≥ 62-X	≤ 54-X	X				20
05303	DIRECT FIXING SCREW M12x90	90	≥ 77	≤ 69	≥ 77-X	≤ 69-X	X				20



EXPANSION DOWELS

Functions

Expansion dowels for rapid fixing of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges to profile without thermal break.

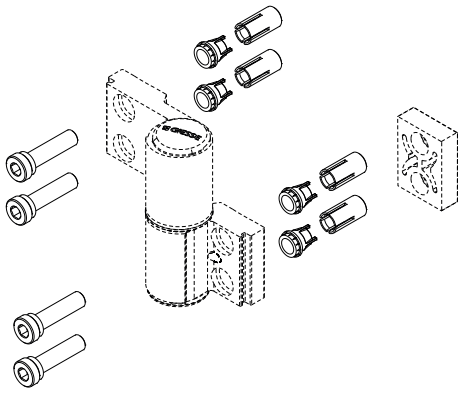
Online data sheet

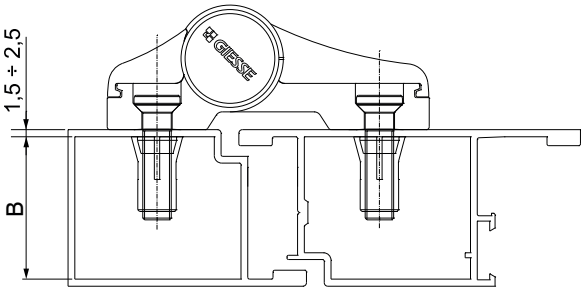
Technical Features

Fixing system for Domina HP, HP Cover and Domina Classic hinges comprising plug, special expansion bush to be located at the holes of the hinge leaf, and M8 screw with special socket head driven by hex key (*).
When fitting plugs, the profile must be prepared by drilling a Ø11 mm hole with the aid of machining templates item 03237, item 05052 and item 05050 (specifically for corner hinges).
(*) Except for HP, HP Cover and Classic hinge, c/c distance 55.5.

Materials

Plug and screw with special head, zinc-coated steel
Expansion bush, zamak





Item code	Description	B [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0520401	EXPANDING PLUG FOR single sealed unit PROFILE - DOMINA HP, DOMINA HP COVER AND DOMINA CLASSIC FLUSH/ONE-PIECE	≥ 30	X				20
0520501	EXPANDING PLUG FOR single sealed unit PROFILE - DOMINA HP, DOMINA HP COVER AND DOMINA CLASSIC WITH STEP	≥ 30	X				20



TT PROFILE SPACERS

Functions

Telescopic spacers for assembly of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges in combination with counterplate kit, for fixing to thermal break profiles with outward opening.

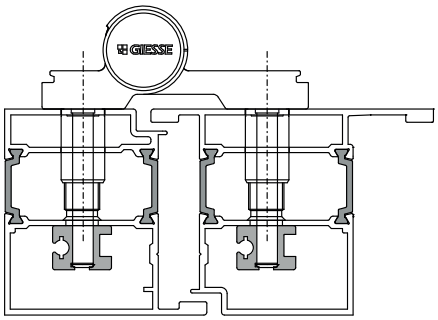
Online data sheet

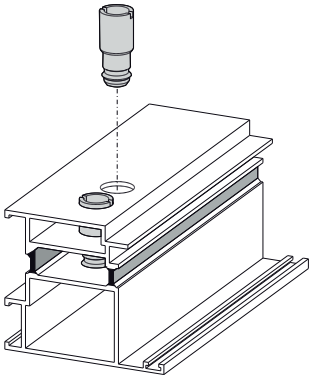
Technical Features

To fit spacers, the holes on the external part of the profile must be enlarged from Ø11 mm to Ø15 mm with the aid of drill bit item 03238.
Each spacer is supplied together with 2 screws of length as specified in the table.
The range comprises four items differing one from another in terms of their adjustment range (see table).

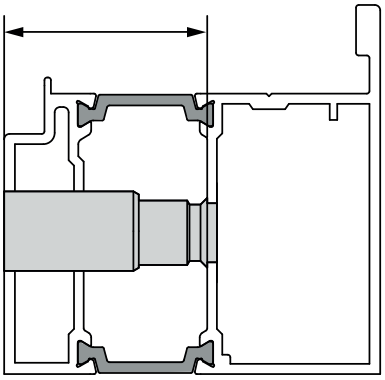
Materials

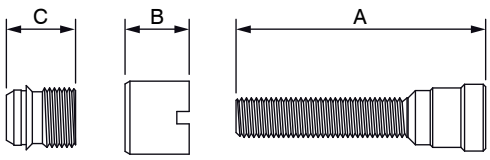
Bush for spacer, telescopic screw and M8 screw with special head, zinc-coated steel





Adjustment range





Item code	Description	Adjustment range	A [mm]	B [mm]	C [mm]	Screws included	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0323901	TELESCOPIC SPACER 13 -18.5 mm	13÷18.5 mm	50	13	14	M8x50	X				20
0324001	TELESCOPIC SPACER 18.5 -29 mm	18.5÷29 mm	60	18,5	29	M8x60	X				20
0324101	TELESCOPIC SPACER 29 -40 mm	29÷40 mm	70	29	40	M8x70	X				20
0324201	TELESCOPIC SPACER 29 -50 mm	29÷50 mm	80	29	50	M8x80	X				20



DOMINA HP SECURITY SYSTEM

Functions

Security system for DOMINA HP and DOMINA HP COVER front-mounting hinges.

Online data sheet

Technical Features

The SKG security system makes it possible to create outward opening doors with SKG 2-star or 3-star certification depending on the number of hinges used.
The burglar-proof kit, which is compatible with counterplates and M12 direct screws for fixing hinge to profile, is available in versions for two-wing and three-wing hinges.

Burglar-proof kit for two-wing hinge, composed of:
• no. 1 side adjustment cartridge with steel pin offering elevated cutting and corrosion resistance, to be used to replace the cartridge supplied with the hinge
• no. 2 supports with stainless steel balls to be inserted in the seat of the hinge to profile fixing screws

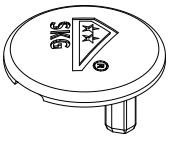
Burglar-proof kit for three-wing hinges, composed of:
• no. 2 steel half-pins offering elevated cutting and corrosion resistance, to be used to replace the half-pins of the side adjustment cartridge supplied with the hinge
• no. 3 supports with stainless steel balls to be inserted in the seat of the hinge fixing screws in outward opening applications

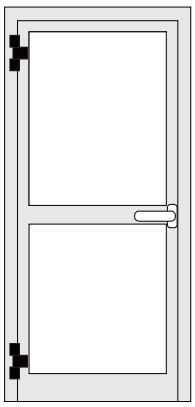
The burglar-proof kit must be used in conjunction with SKG class 2 (2-star) or class 3 (3-star) plugs to replace the standard plugs supplied with the hinge, depending on the chosen configuration.
The SKG 2-star plug is used on doors with 2 hinges (2 or 3 wings) equipped with burglar-proof balls; the SKG 3-star plug is used in the case of doors with 3 hinges (2 or 3 wings) equipped with burglar-proof balls.

Materials

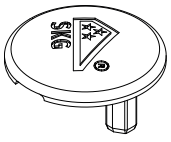
Stainless steel burglar-proof balls
Balls support in polyamide
Steel pins with treatment providing elevated cutting and corrosion resistance
SKG plugs in polyamide

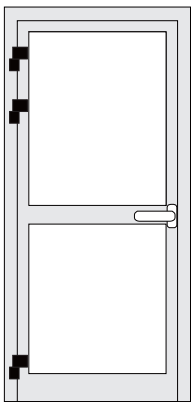
Article 05241



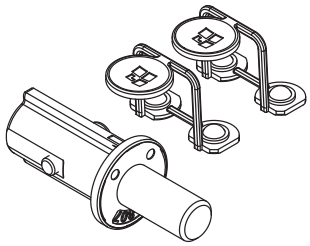


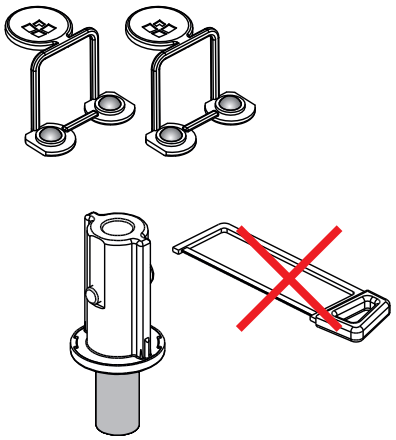
Article 05242

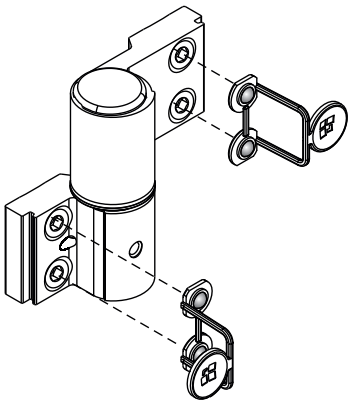




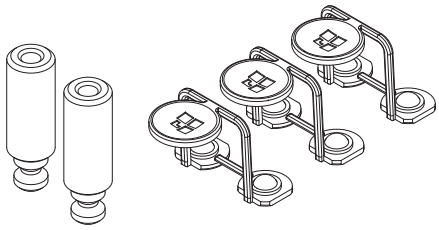
Article 05243 (set 2 leaf)

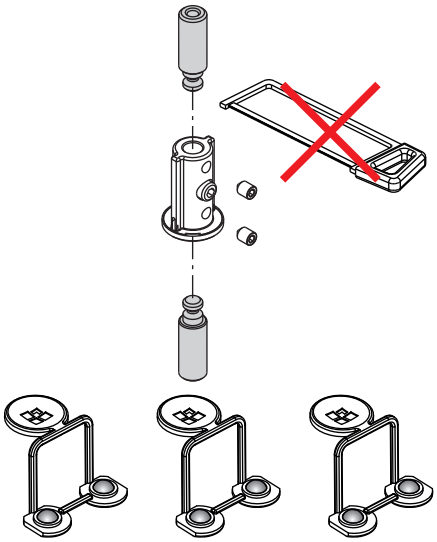


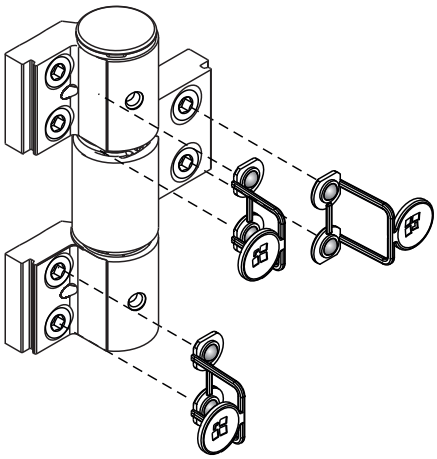




Article 05244 (set 3 leaf)

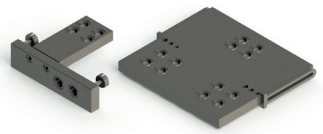






Item code	Description	Compatible with counter-plates kit	Compatible with direct fixing M12 screws	Compatible with spacers	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05241	SKG 2 STAR PLUGS	-	-	-	X				40
05242	SKG 3 STAR PLUGS	-	-	-	X				40
05243	SKG 2-WING BURGLAR-PROOF KIT	0520001-0520101-0520201-0520301	05300-05301-05302-05303	0323901-0324001-0324101-0324201	X				10
05244	SKG 3-WING BURGLAR-PROOF KIT	0520001-0520101-0520201-0520301	05300-05301-05302-05303	0323901-0324001-0324101-0324201	X				10

HINGE MACHINING TEMPLATES



Functions

Profile machining templates for assembly of DOMINA HP, DOMINA HP COVER and DOMINA CLASSIC hinges, in 2 and 3 leaf versions and with the various c/c distances.

Online data sheet

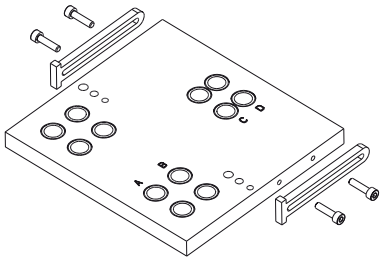
Technical Features

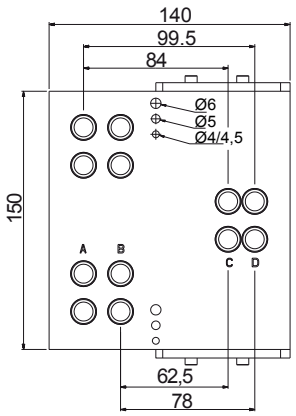
Templates are provided with dowel pins of different diameters, to facilitate positioning on flush profiles, and with adjustable positioning aids for application to non-flush profiles.

Materials

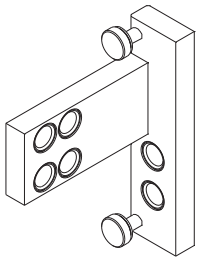
Aluminium template
Carbon nitrided steel guide bushes (preassembled)
Dowel pins, positioners and fixing screws, all zinc-coated steel

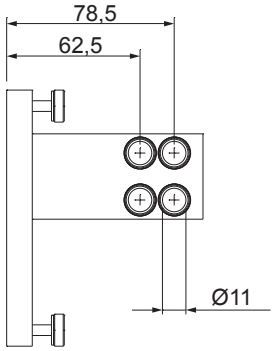
Machining template code 03237



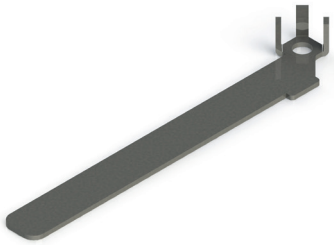


Machining template code 05050





Item code	Description	C/C distance [mm]	Parts	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03237	MACHINING TEMPLATE FOR DOMINA HINGES	62,5 78 84 99,5	adjustable positioners no.2 dual diameter pins Ø4-Ø4.5 no.2 pins Ø5 no.2 pins Ø6	X				1
05052	MACHINING TEMPLATE FOR DOMINA HINGES	70.5 92	adjustable positioners no.2 dual diameter pins Ø4-Ø4.5 no.2 pins Ø5 no.2 pins Ø6	X				1



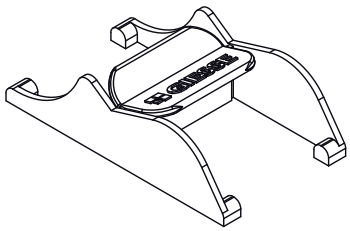
DOMINA ASSEMBLY EQUIPMENT

Functions

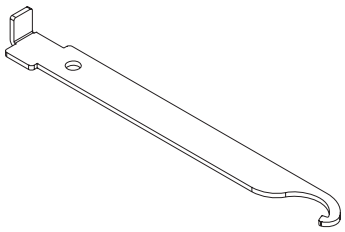
Equipment for installation and adjustment of clamp door hinges and front-fitting hinges.

Online data sheet

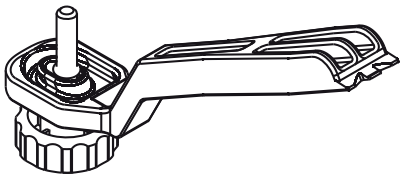
05051



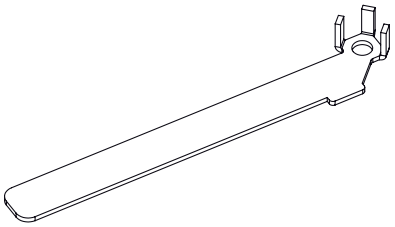
03900



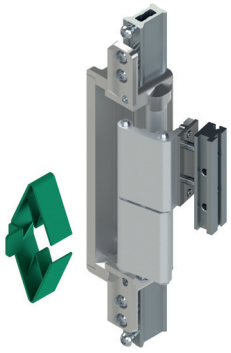
05054



05053



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03900	DOOR HINGE ADJUSTER KEY		X				5
05051	PLATE LOCKING CLIP, DOMINA CLASSIC		X				50
05053	DOMINA HP ADJUSTER KEY		X				10
05054	PIN EXTRACTOR - DOMINA HP 3 LEAF		X				1



CHIC DOOR 160 HINGE

Functions

Reversible door hinge, to be applied inside the profiles for complete invisibility when the door is closed and adjustable in three directions (width, height and compression).

Online data sheet

Technical Features

Hinge with concealed installation, suitable for aluminium doors, even of large size, which meet most of the residential, commercial and public applications.
An innovative system (patented) makes hinge installation and sash to frame coupling easier, even in the case of doors installed in architectural stack.
Reduced profile machining and functional fixing devices on the hinge facilitate the doors production, reducing their production times.
CHIC Door is adjustable in three directions:
- Side adjustment (+/- 3 mm), using an Allen key on the hinge adjusters.
- Height adjustment (- 2 /+ 3 mm), using an Allen key on the adjustment screw.
- Compression adjustment (+/- 1 mm), obtainable by turning the screws on the sash hinge body.

Hinge tested in compliance with EN1935.

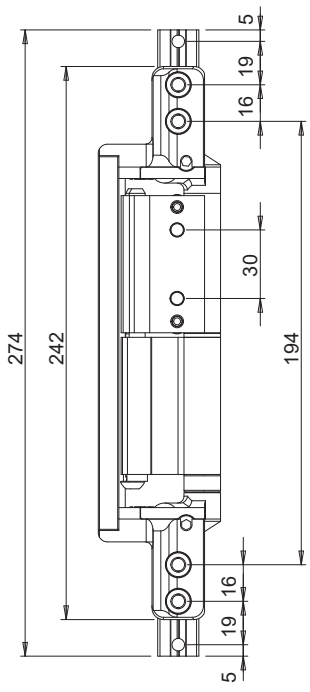
Materials

Extruded aluminium hinge bodies and upright
Main pin in white anodised turned aluminium
Bases and anchors in sealed white galvanised zamak
Axial bearing, adjustment plate and secondary stainless steel pins
Extruded aluminium fixing plates
Stainless steel screws and spring
Hostaform bushing
POM template

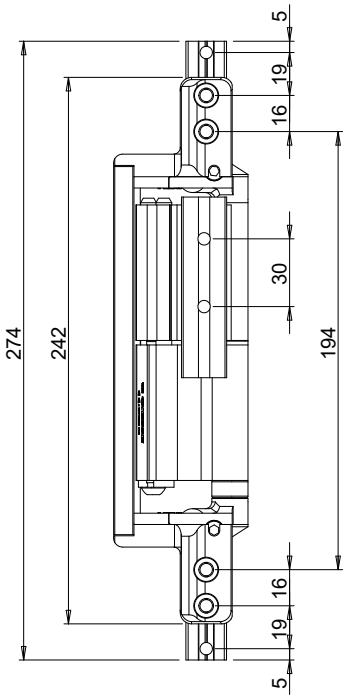
Capacities

160 kg with 2 hinges

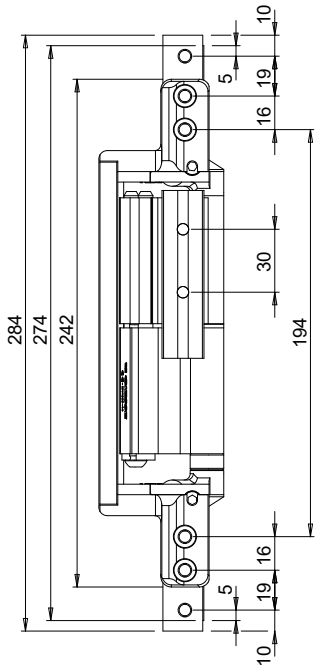
00750



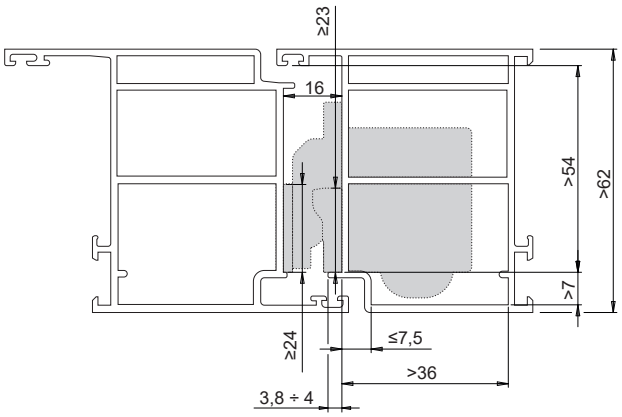
00753



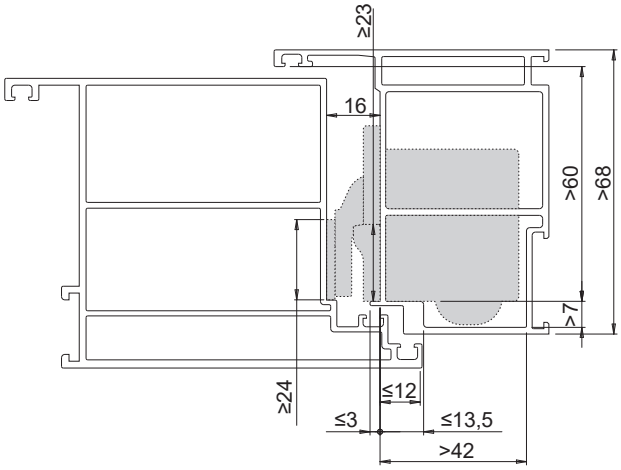
00763



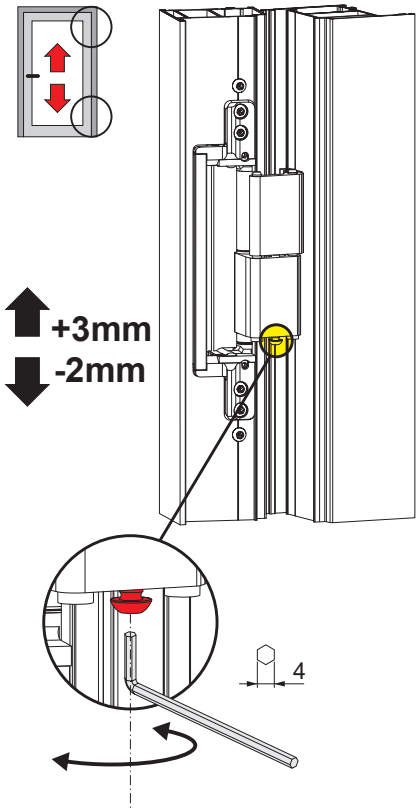
00750



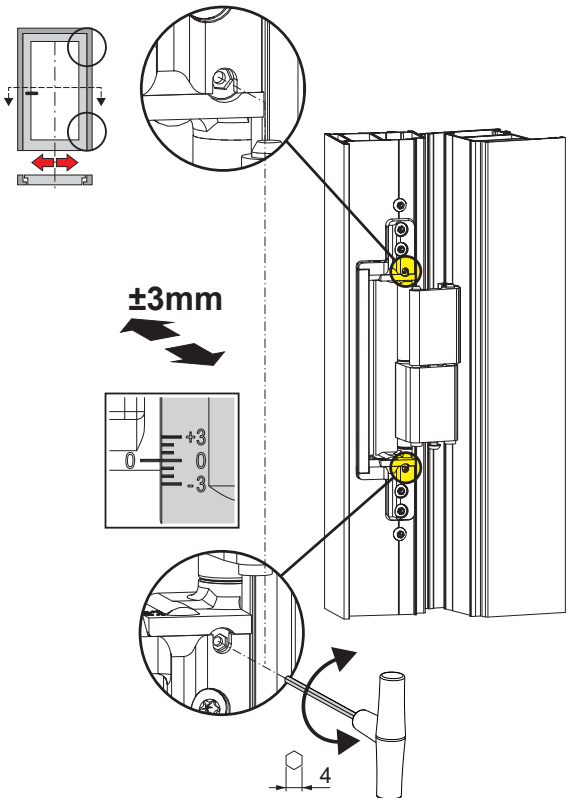
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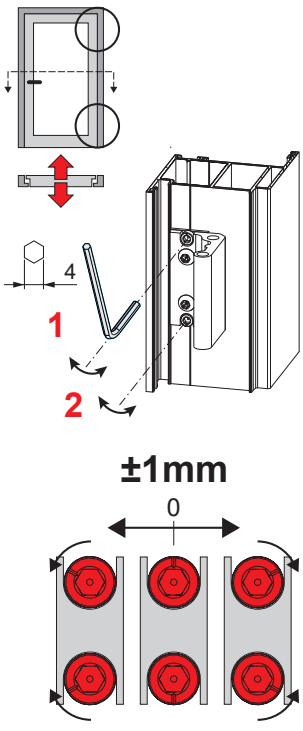
Height adjustment



Side adjustment

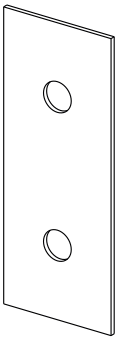


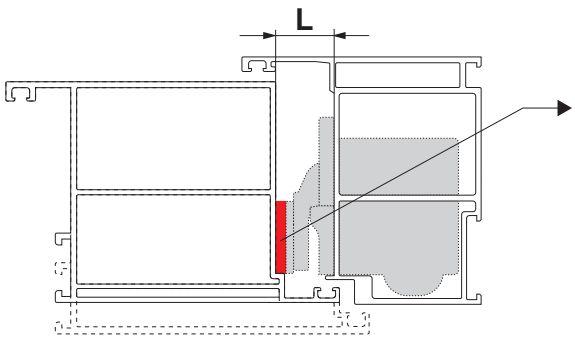
Compression adjustment



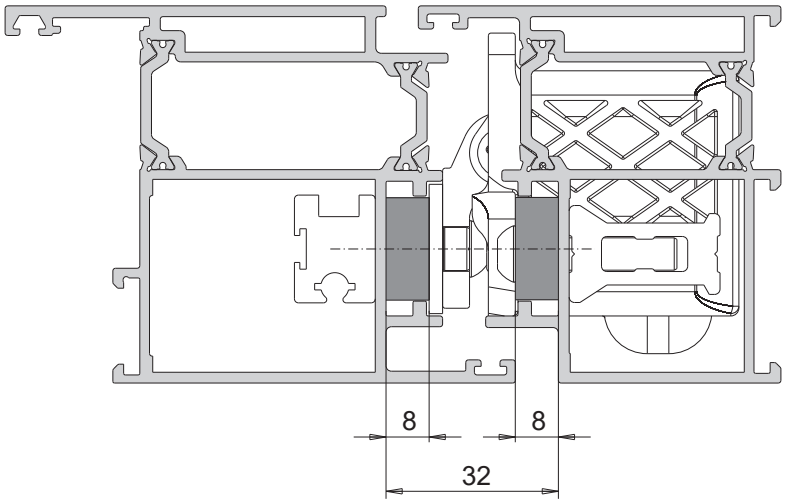
CONCEALED HINGES FOR DOOR

00757



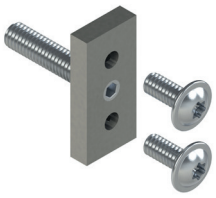


00763



Item code	Description	Version	Load capacity 2 hinges [kg]	Height adjustment	Side adjustment	Compression adjustment	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00750	FLUSH CHIC DOOR 160	RH (reversible)	160	+3 / -2 mm	±3 mm	±1 mm		X			1
00753	OVERLAP CHIC DOOR 160	RH (reversible)	160	+3 / -2 mm	±3 mm	±1 mm		X			1
00757	THICKNESS 1 mm CHIC DOOR HINGE	-	-	-	-	-	X				50
00763	FLUSH CTZ CHIC DOOR 160	RH (reversible)	160	+3 / -2 mm	+2 / -3 mm	±1 mm		X			1

CHIC DOOR REINFORCEMENT KIT



Functions

Reinforcement kit for fixing the CHIC Door 160 hinge when used on profiles with a thickness less than 1.8 mm.

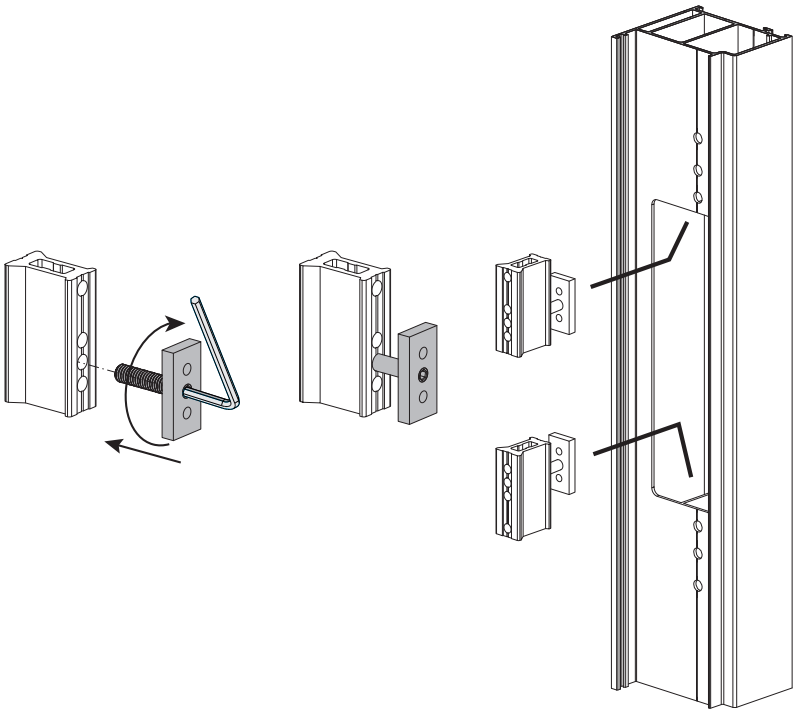
Online data sheet

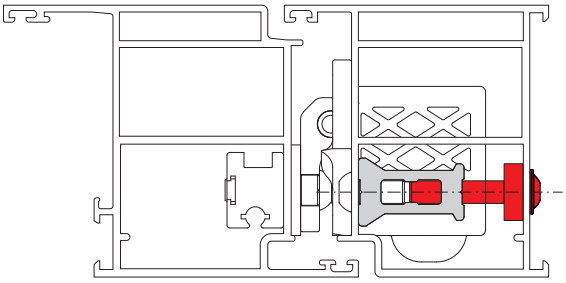
Technical Features

Reinforcement kit to be combined with the CHIC Door 160 hinge to make the hinge fixing more stable when the profiles thickness is less than 1.8 mm.
Using the Kit on profiles with thickness from 1.6 to 1.8 mm allows to maintain the hinge load capacity performance unchanged.
For application details refer to the fitting instructions made available with the CHIC Door 160 hinge.

Materials

Extruded aluminium plate
Stainless steel screws and grub screw





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00755	CHIC DOOR REINFORCEMENT KIT		X				5



CHIC DOOR INSTALLATION KIT

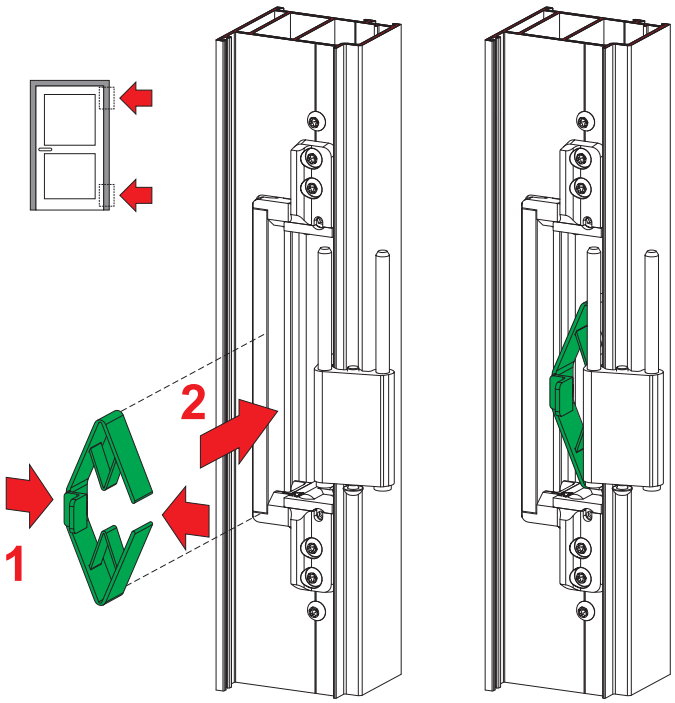
Functions

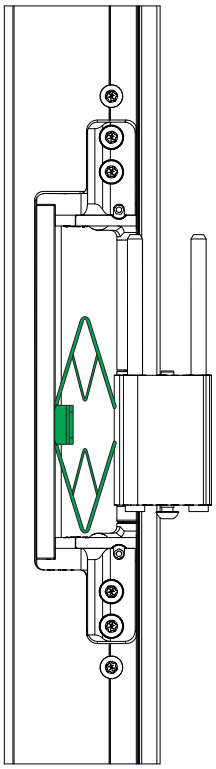
Positioning template for the frame hinge bodies correct alignment when fitting the sash.
It facilitates the sash joining to the frame keeping the pins of the different hinge bodies perfectly aligned with each other.

Online data sheet

Materials

POM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00756	CHIC DOOR INSTALLATION KIT		X				20



CHIC DOOR EG HINGES

Functions

Reversible recessed door hinge, to be applied inside the profiles for complete product invisibility when the door is closed.
With its innovative (patented) design, the product can be adjusted in two directions (laterally and in height) by a single operator.

Online data sheet

Technical Features

CHIC DOOR EG is a concealed hinge, suitable for aluminium doors, even of large dimensions and considerable weight.
An innovative design (patented) makes it possible to apply the product very quickly inside the profiles.
To apply the hinge, in fact, it is sufficient to simply make a machining on the frame and then insert the hinge into the sash channel.
The product is fixed to the frame by means of previously inserted slip-on plates in the frame channel.
CHIC DOOR EG adjustable in two directions:
- Side adjustment (+/- 2 mm.), using a hex wrench on the hinge adjusters.
- Height adjustment (- 2 /+ 4 mm.), using a hex wrench on the adjustment screw.

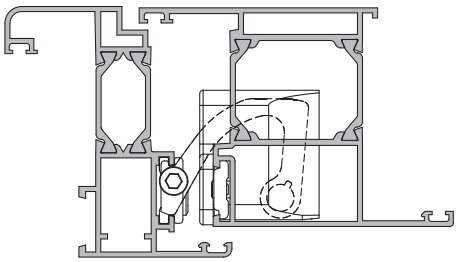
The hinge rotation angle is approx. 105° (also depending on the profile geometry).
If the sash can be opened > 90°, the use of a Friz limitation arm (art. 02030K) is recommended.
The sash adjustment operations can be carried out by a single operator directly on site.
CHIC DOOR EG is a CE marked product in compliance with standard EN1935 (200,000 cycles) - Class 12.

Materials

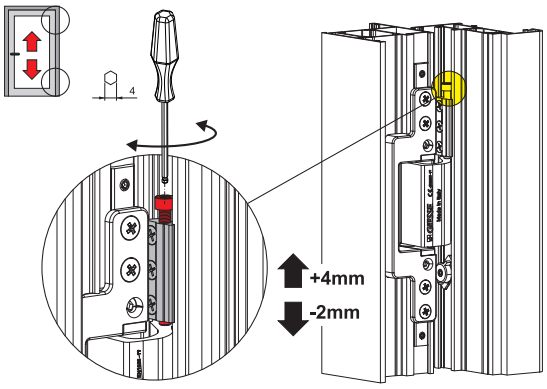
Hinge body in die-cast zamak
Hinge neck, frame fixing plates and height adjustment component in extruded aluminium
Hinge internal pin made of stainless steel
Screws and grub screws in stainless steel
Polyamide bushes

Capacities

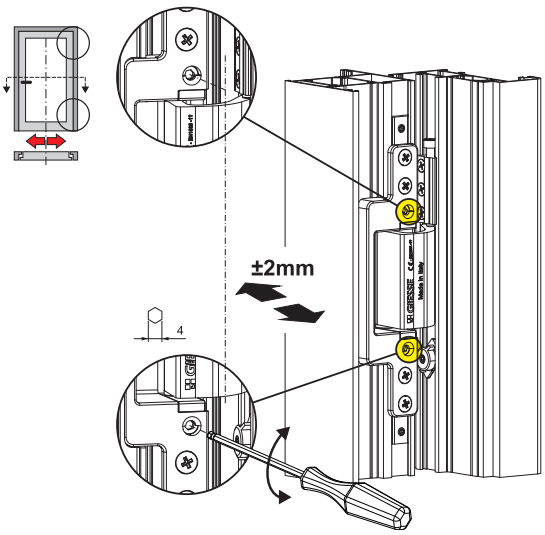
120 kg with 2 hinges
135 kg with 3 hinges
150 kg with 4 hinges
For load capacities with door closer, see the relevant fitting instructions.

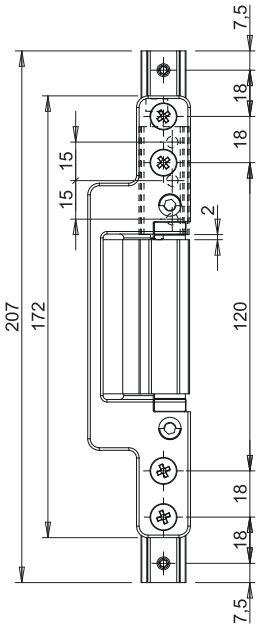


Height adjustment



Side adjustment





Item code	Description	PROFILE CROSS - SECTION	Version	Opening	Friz Arm	Height adjustment	Side adjustment	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00725	CHIC DOOR EG	C001	reversible	external	02030K	+4 / -2 mm	±2 mm		X			2



CHIC DOOR RG HINGES

Functions

Reversible recessed door hinge, to be applied inside the profiles for complete product invisibility when the door is closed.
With its innovative (patented) design, the product can be adjusted in two directions (laterally and in height) by a single operator.

Online data sheet

Technical Features

CHIC DOOR RG is a concealed hinge, suitable for aluminium doors, even of large dimensions and considerable weight.
An innovative design (patented) makes it possible to apply the product very quickly inside the profiles.
To apply the hinge, in fact, it is sufficient to simply make a machining on the frame and then insert the hinge into the sash channel.
The product is fixed to the frame by means of previously inserted slip-on plates in the frame channel.
CHIC DOOR RG adjustable in two directions:
- Side adjustment (+/- 2 mm.), using a hex wrench on the hinge adjusters.
- Height adjustment (- 2 /+ 4 mm.), using a hex wrench on the adjustment screw.

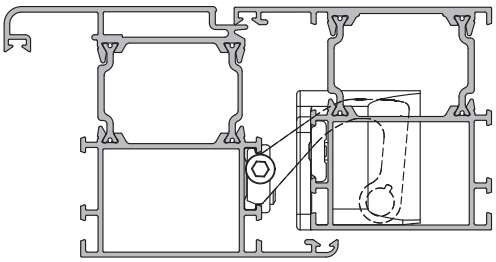
The hinge rotation angle is approx. 105° (also depending on the profile geometry).
If the sash can be opened > 90°, the use of a Friz limitation arm (art. 02034K) is recommended.
The sash adjustment operations can be carried out by a single operator directly on site.
CHIC DOOR RG is a CE marked product in compliance with standard EN1935 (200,000 cycles) - Class 12.

Materials

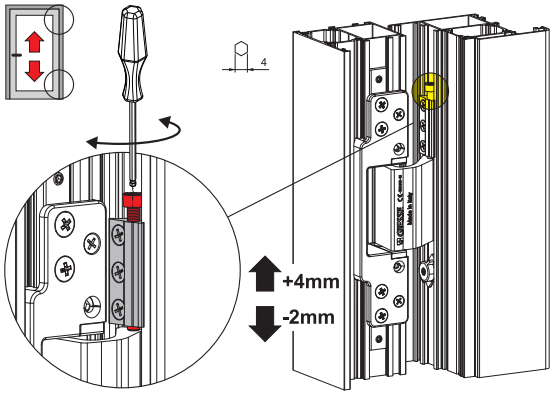
Hinge body in die-cast zamak
Hinge neck, frame fixing plates and height adjustment component in extruded aluminium
Hinge internal pin made of stainless steel
Screws and grub screws in stainless steel
Polyamide bushes

Capacities

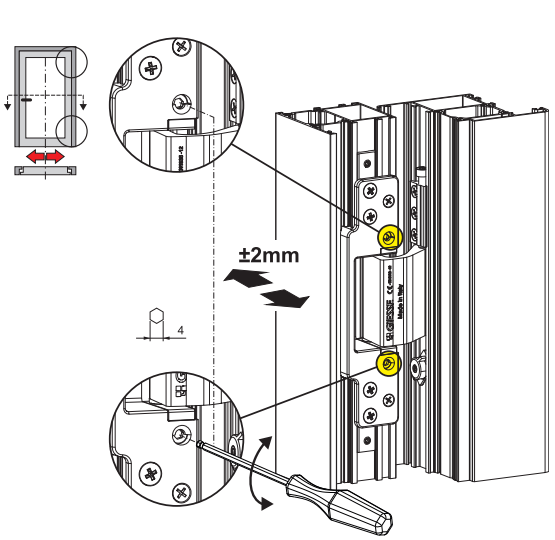
120 kg with 2 hinges
135 kg with 3 hinges
150 kg with 4 hinges
For load capacities with door closer, see the relevant fitting instructions.

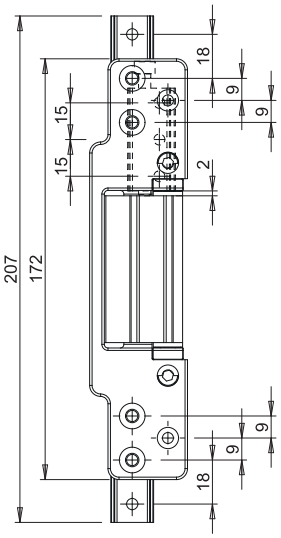


Height adjustment



Side adjustment





Item code	Description	PROFILE CROSS - SECTION	Version	Opening	Friz Arm	Height adjustment	Side adjustment	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00726	CHIC DOOR RG	C007	reversible	external	02034K	+4 / -2 mm	±2 mm		X			2



TECH PIVOT HINGES

Functions
Pivot hinge for horizontally and vertically sashes turning through 180°.

Online data sheet

Technical Features
Pivoted sash with friction-controlled opening up to 30°; gripping force selectable by turning a screw associated with both pivot hinges.
The sash opens to 30°; to open further for cleaning, press the release button located on one of the two hinges.
When the lever is released, the mechanism opens to 180° and will lock the sash automatically in this position to avoid unauthorized closures.
To close the sash, operate the release button again.
Each pair of Tech pivot hinges requires a set of fixing plates specific to the selected profile; these must be ordered separately.
Each set of plates comprises 2 sash plates and 2 frame plates.
The geometry of the sash-mounted plate is designed to allow the passage of closure hardware fitted to the perimeter.

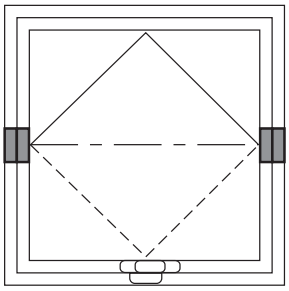
Materials
Male and female hinge bodies, diecast zamak painted in RAL colours
Internal mechanisms made of diecast zamak
Release button, black polyamide
Extruded aluminium plates
Stainless steel screws

Capacities
Using Tech pivot hinges in combination with Giesse original plates, pivot sashes can be specified with the following maximum dimensions and weights:

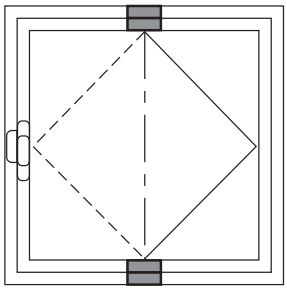
Horizontal pivot-hinged sash
Maximum weight of sash (aluminium + glass): 120 Kg
Maximum sash dimensions: height 2200 mm - width 1600 mm

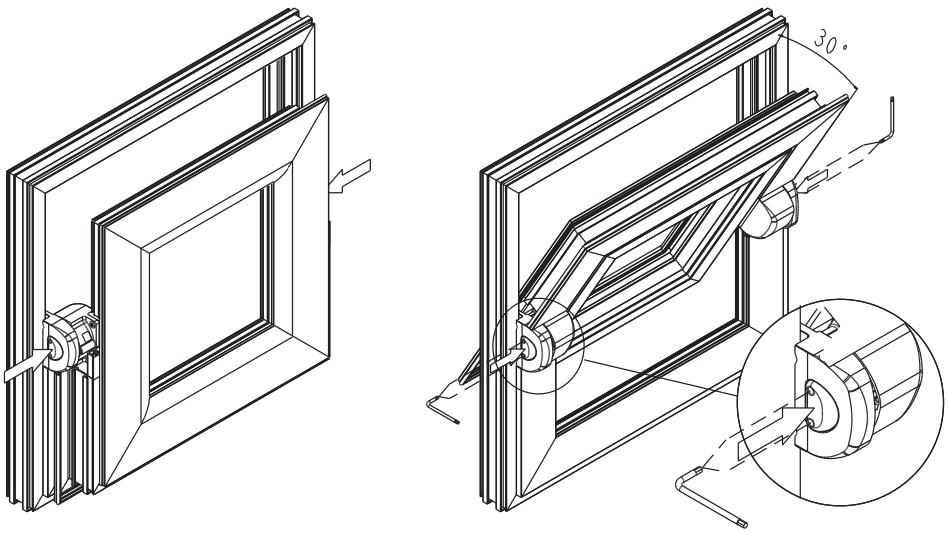
Vertical pivot-hinged sash
Maximum weight of sash (aluminium + glass): 100 Kg
Maximum sash dimensions: height 2200 mm - width 1600 mm

Horizontal pivot-hinged sash



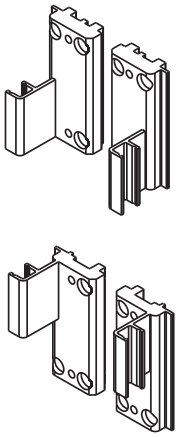
Vertical pivot-hinged sash

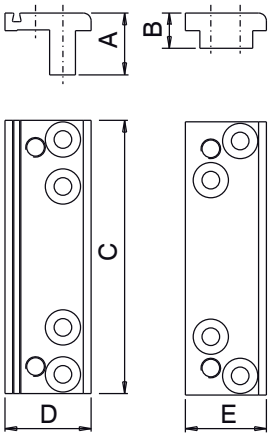




PIVOT HINGES

Fixing plates (specific to series)





Item code	Description	PROFILE CROSS - SECTION	With lock	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01420	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P001	-	15,8	9	69,8	22	20,7	X				4
01421	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P002	-	10	15,8	69,8	20,7	20,9	X				4
01422	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P003	-	12,5	16,25	69,8	37,7	38,8		X			4
01424	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P005	-	11,3	17,5	69,8	21	22,5	X				4
01427	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P007	-	13	19	69,8	20,5	24	X				4
01428	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P008	-	10,75	17,5	69,8	21,5	22,5	X				4
01429	SET OF MOUNTING PLATES FOR TECH PIVOT HINGE	P001-P009	-	11,3	17,5	69,8	21	22,5	X				4
01439	TECH PIVOT HINGE WITHOUT PLATES	P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	NO	-	-	-	-	-	X		X		4
01459	TECH PIVOT HINGE WITHOUT PLATES	P001-P002-P003-P005-P006-P007-P008-P009-P010	YES	-	-	-	-	-	X		X		4
01464	TECH PIVOT HINGE WITHOUT PLATES	-	YES	-	-	-	-	-	X	X	X		8



FRIBLOK PIVOT HINGES

Functions

Pivot hinge for horizontally and vertically sashes turning through 180°, fashioned entirely from extruded aluminium billet using precision machining processes.

Online data sheet

Technical Features

Solidly reliable by virtue of the component structures and the inclusion of a device by which the window can be held at 30° and locked at 180°.
The 30° stop can be rendered inactive by fitting the polyamide insert in the relative slot.
A special screw allows external adjustment of the friction force applied: the action is particularly durable and effective as the metal walls are interfaced with one another by way of a polyamide thrust washer containing a high percentage of glass fibre.
Can also be supplied, to order, without the locking mechanism.

Applications and Load capacities of FRIBLOCK hinge pivots

Horizontal pivot-hinged sash

Weight of sash distributed between the two pivot hinges
Using the fixing screws provided, the overall weight of the pivoted sash (glazing included) can be 70/80 kg.

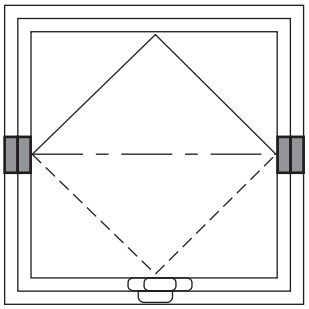
Vertical pivot-hinged sash

Weight of sash supported entirely by the bottom pivot hinge
The bottom pivot hinge must be fitted with a polyamide thrust plug (code H5065010).
With normal fixing, the overall weight of the pivoting window (glazing included) can be 50/60 kg.

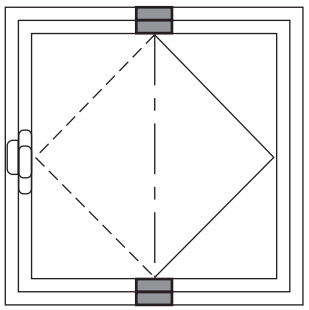
Materials

Extruded aluminium hinge body and fixing plates
Zamak clamp adjustment ring
Polyamide thrust washer
Screws and hinge pin of zinc-nickel plated steel.

Horizontal pivot-hinged sash

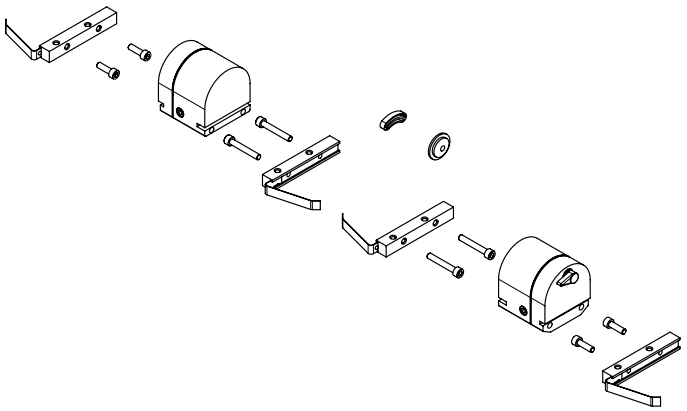


Vertical pivot-hinged sash

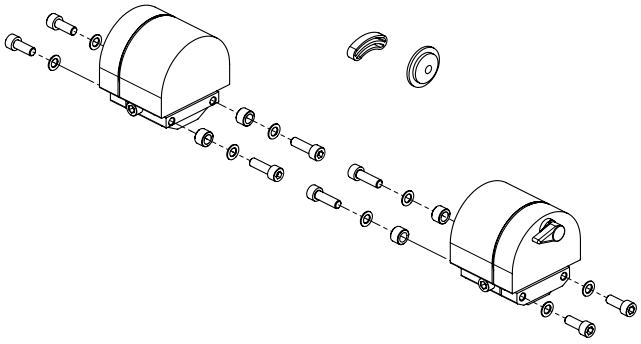


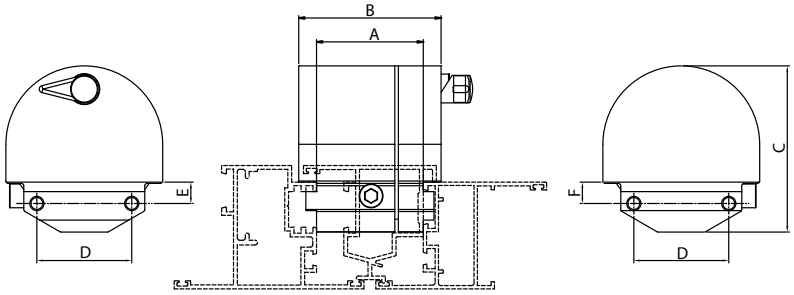
PIVOT HINGES

Pivot hinge with plates



Pivot hinge without plates





Item code	Description	PROFILE CROSS - SECTION	With plates	With screws	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01416	FRIBLOK PIVOT HINGE	P005	X	-	48,8	67,5	77	46	7,95	7,95	X	X	X		4
01441	FRIBLOK PIVOT HINGE	P001	-	X	45	60	70	40	9	9	X	X	X		4
01443	FRIBLOK PIVOT HINGE	P002	-	X	47	60	70	40	10,5	10,5	X	X	X		4
01448	FRIBLOK PIVOT HINGE	see Where Used	-	X	46	60	70	40	16	16	X	X	X		4
01449	FRIBLOK PIVOT HINGE	see Where Used	-	X	47	68	70	26	19,5	19,5	X	X	X		4

GIESSE
TYMAN group

MECHANISMS AND FASTENERS





SUPRA 7 - MECHANISMS

Functions

Innovative reversible mechanism system without washer, which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins.

Online data sheet

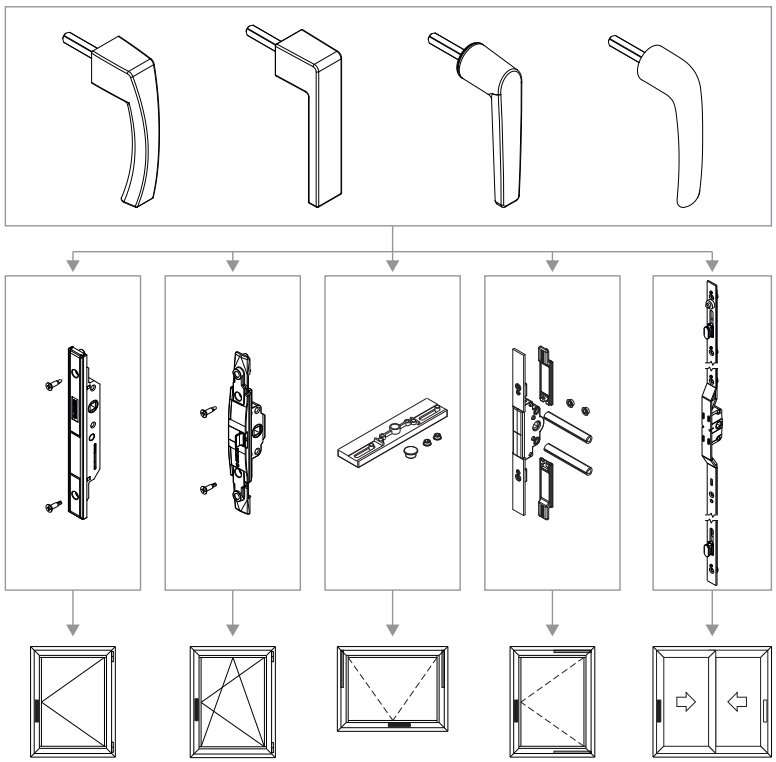
Technical Features

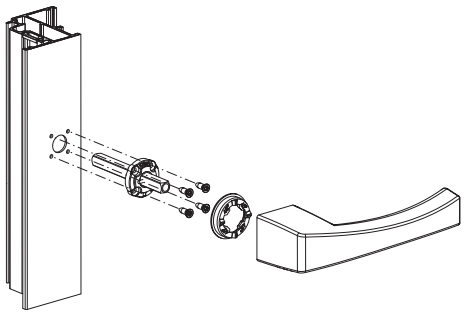
The Supra 7 window handles can be combined with the Giesse sash, Tilt-and-turn, Side Hung, Top Hung and Sliding movements and mechanisms which have a rotor with a 7 mm square slot.
The product, due to the exclusive Asia, Kora and Prima designs, can be combined with all the other Giesse products in the same line intended for other types of sashes (door, handles for lift-and-slide etc.).
The mechanism / movement must be firmly and independently fixed to the sash profile and receive the motion from the 7 mm pin of the Supra 7 window handle.
The machining to be carried out on the sash profile is simple and fast and Giesse has created 2 drilling templates to facilitate the operations (art. 03546 and art. 03547).
The product application takes place in 2 steps: first of all the base is fixed, with the integrated 7 mm pin, to the sash profile by means of the 4 TORX screws and then, after having pressed the handle firmly on the base, the pre-assembled grub screw is completed screwed onto the handle.
The supply includes 2 snap disks to be chosen based on the geometry of the sash profile.
The 7 mm square pin protrudes from the window handle support plane of 45 mm.
On request the length of the pin can be changed.

Materials

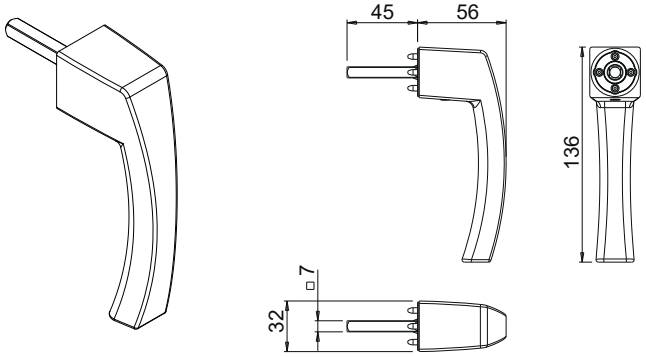
Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

SUPRA 7 system

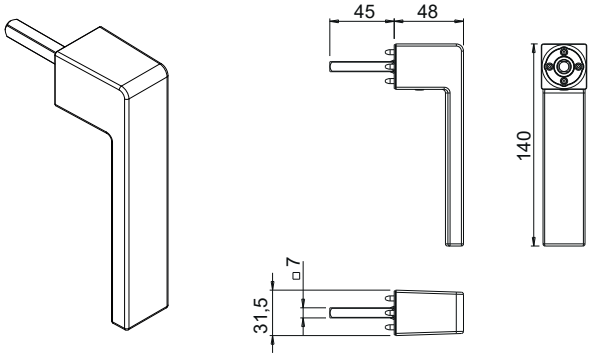




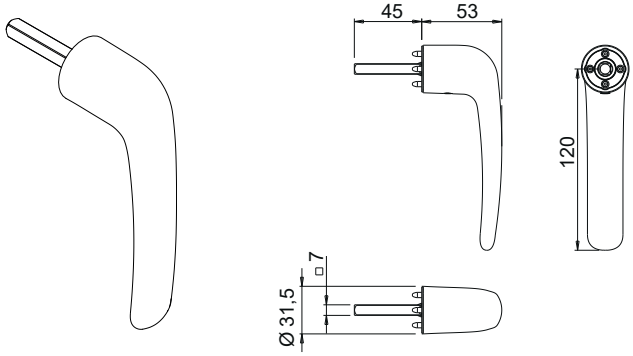
04153



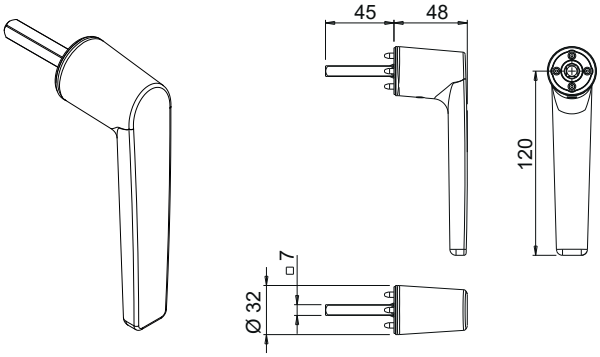
04154



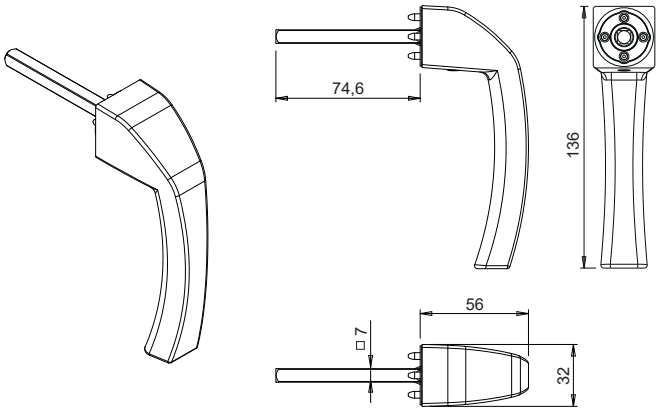
04155



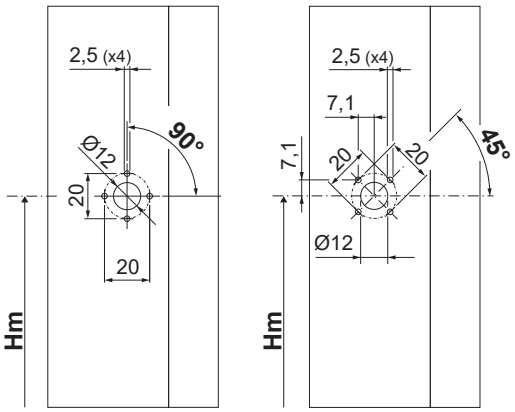
04156



04164



Fixing with 45° or 90° machining



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04153	SUPRA 7 - ASIA MECHANISM		X		X	X	10
04154	SUPRA 7 - KORA MECHANISM		X		X	X	10
04155	SUPRA 7 - PRIMA MECHANISM		X		X	X	10
04156	SUPRA 7 - ARIA MECHANISM		X		X	X	10
04164	SUPRA 7 - ASIA APEX MECHANISM		X		X	X	10



SUPRA 7 - MECHANISM WITH OFFSET HANDLE

Functions

Innovative reversible mechanism system without washer, which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins.
Version in which the square spindle and the mechanism are supplied separately, so the MECHANISM + the FIXING KIT are needed to create a SUPRA 7.

Online data sheet

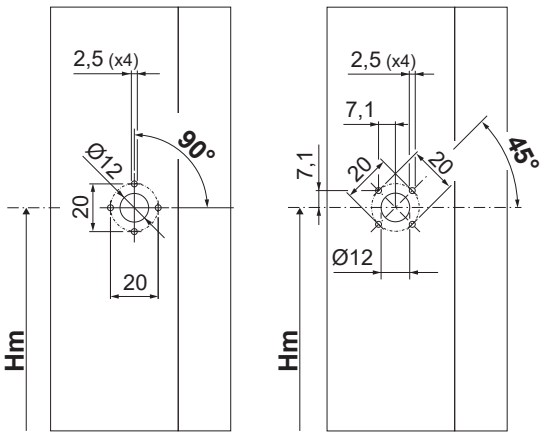
Technical Features

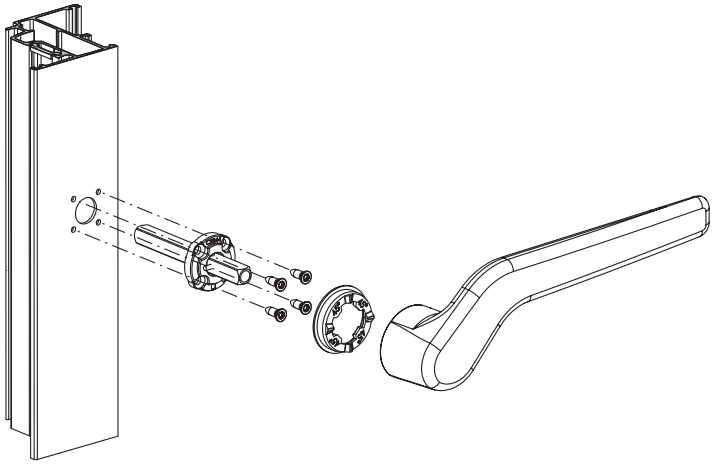
The Supra 7 window handles can be combined with the Giesse sash, Tilt-and-turn, Side Hung, Top Hung and Sliding movements and mechanisms which have a rotor with a 7 mm square slot.
The mechanism / movement must be firmly and independently fixed to the sash profile and receive the motion from the 7 mm pin of the Supra 7 window handle.
The machining to be carried out on the sash profile is simple and fast and Giesse has created 2 drilling templates to facilitate the operations (art. 03546 and art. 03547).
The product application takes place in 2 steps: first of all the base is fixed, with the integrated 7 mm pin, to the sash profile by means of the 4 TORX screws and then, after having pressed the handle firmly on the base, the pre-assembled grub screw is completed screwed onto the handle.
The supply includes 2 snap disks to be chosen based on the geometry of the sash profile.
The 7 mm square pin protrudes from the window handle support plane of 45 mm.
On request the length of the pin can be changed.

Materials

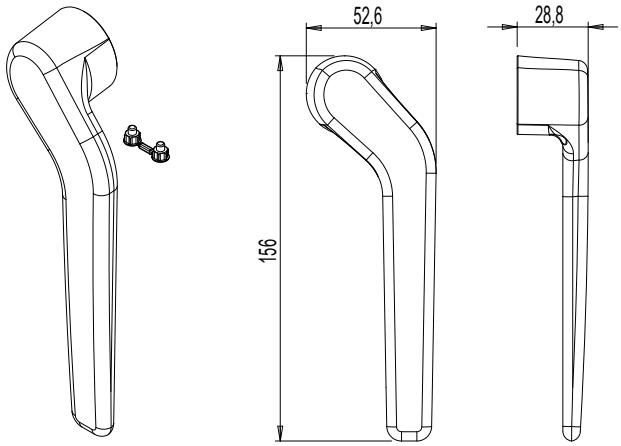
Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

Fixing with 45° or 90° machining

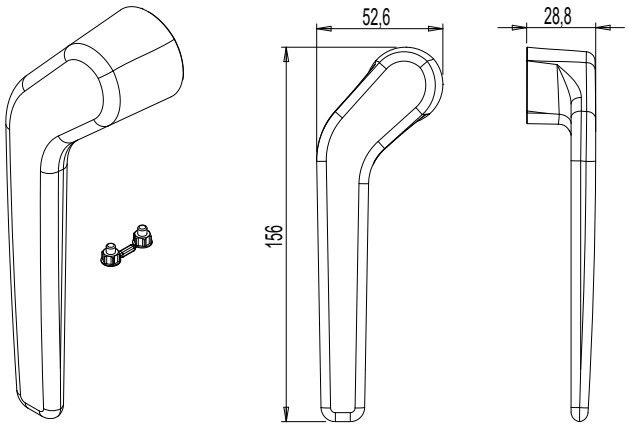




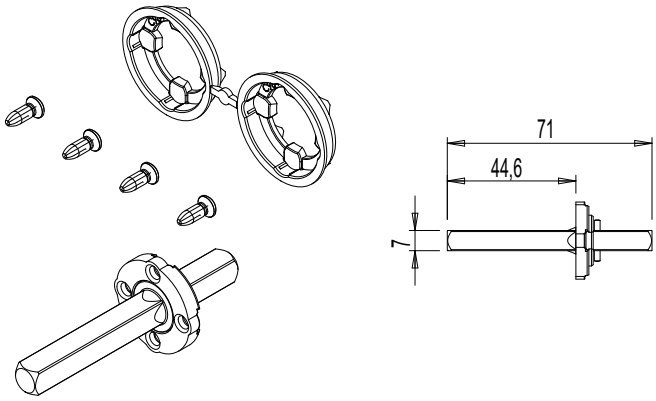
052621



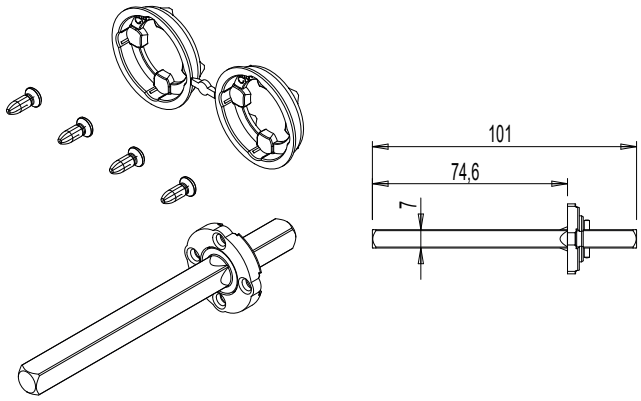
052622



05560



05261



Item code	Description	Notes	Square spindle length [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
052621	SUPRA 7-OFFSET MECHANISM	RX		X		X		10
052622	SUPRA 7-OFFSET MECHANISM	LX		X		X		10
05560	SUPRA 7 - FIXING KIT		71	X				10
05261	SUPRA 7 - FIXING KIT		101	X				10



SUPRA 7 - DOUBLE WINDOW HANDLES

Functions

Innovative double mechanism system without washer which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins and which can be combined with all Giesse products having the same design.

Online data sheet

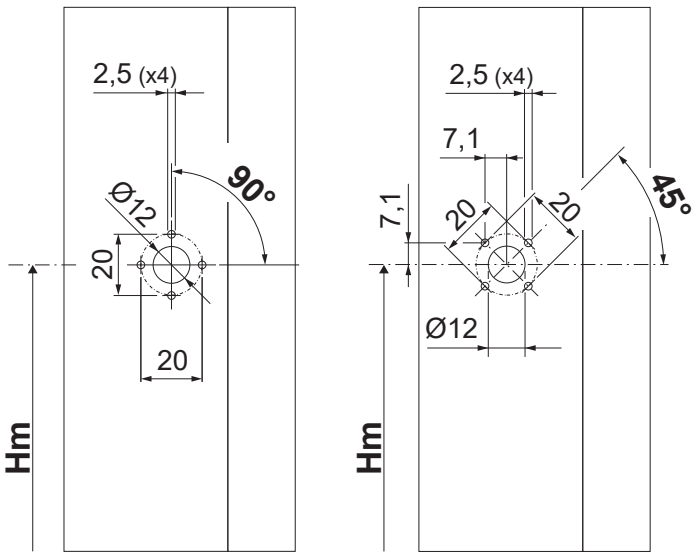
Technical Features

The Supra 7 double window handles can be combined with the Giesse sliding casement and side-hung sash movements and mechanisms which have a rotor compatible with 7 mm square pins.
The product, due to its exclusive design, can be combined with all the other Giesse products having the same design intended for other types of sashes (door, handles for lift-and-slide etc.).
Products applicable on sash with profiles wide from 26 to 85 mm.

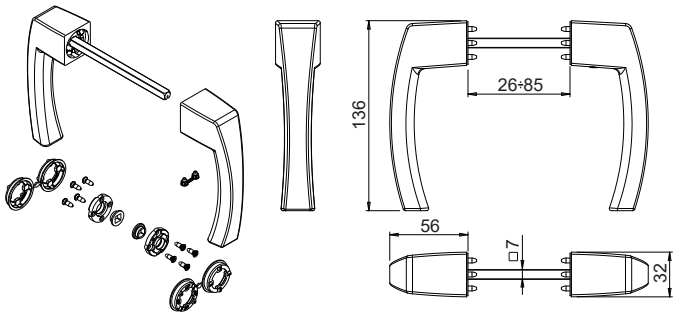
Materials

Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

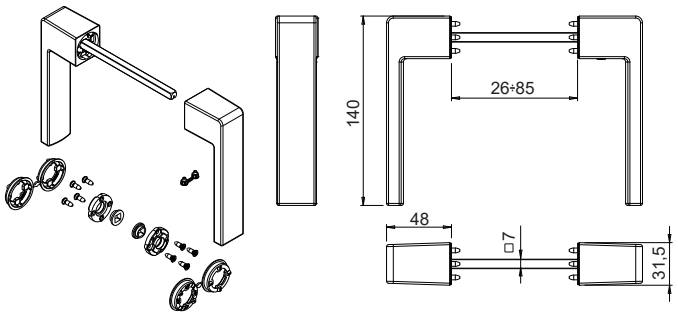
Fixing with 45° or 90° machining



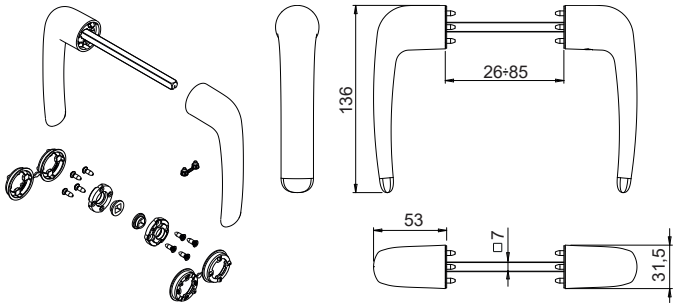
04395



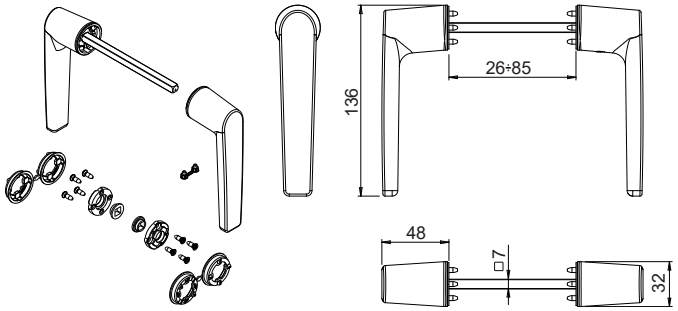
04396



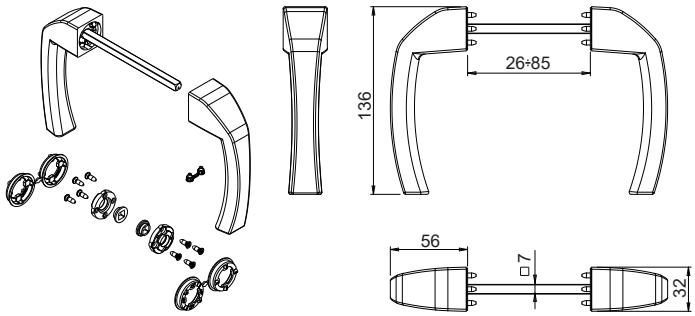
04397



04398



04399



Item code	Description	Type of pin (mm)	Pin length (mm)	Sash width (mm)	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04395	SUPRA 7 - ASIA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04396	SUPRA 7 - KORA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04397	SUPRA 7 - PRIMA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04398	SUPRA 7 - ARIA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04399	SUPRA 7 - ASIA APEX DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5



SUPRA 7 - DRILLING TEMPLATE

Functions

Drilling template for carrying out machining on the SUPRA 7 window handle.

Online data sheet

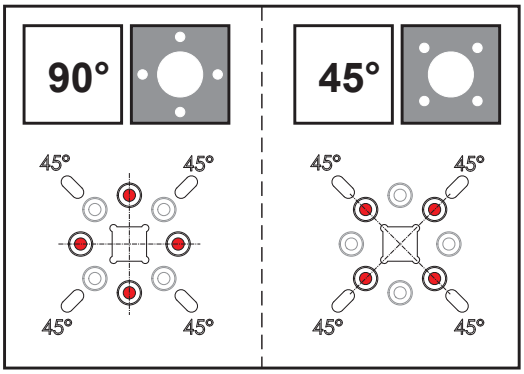
Technical Features

The drilling template art. 03546 can be used for Euro groove (Euro groove central gasket) or R40 inward opening systems, by applying the two supplied pins in holes "A" or "B".
The drilling template art. 03547 is a universal template that can be applied to different types of systems (Sliding, Side Hung, Top Hung, Inward Swing, etc.) as it uses a 7 mm square pin, included in the supply, as reference point, to be inserted in the slot of the mechanism rotor.
To improve machining precision, we recommend holding it in place using a clamp.

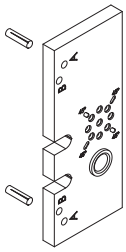
Materials

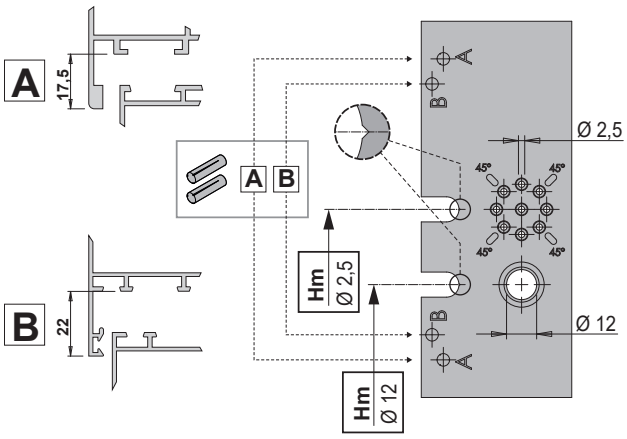
Art. 03546: Aluminium template body, Steel bushings
Art. 03547: Steel template body and square pin

Possibility of 45° or 90° machining

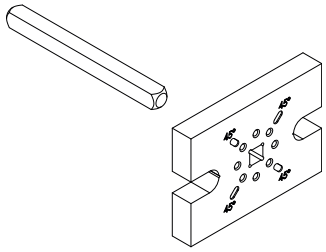


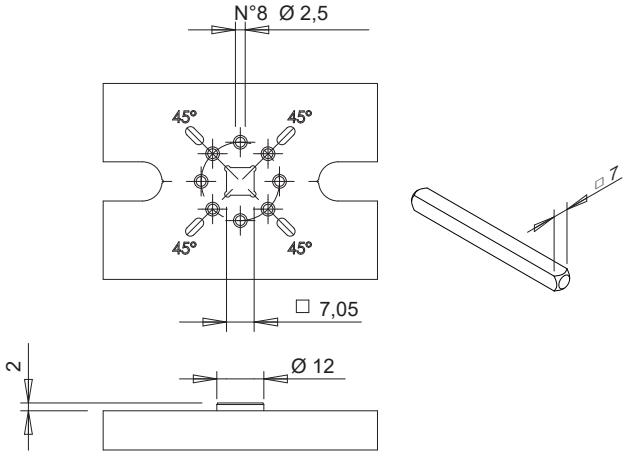
03546





03547





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03546	SUPRA 7 DRILLING TEMPLATE	C.E.-R40	X				1
03547	SUPRA 7 UNIVERSAL TEMPLATE		X				1

NP SUPRA



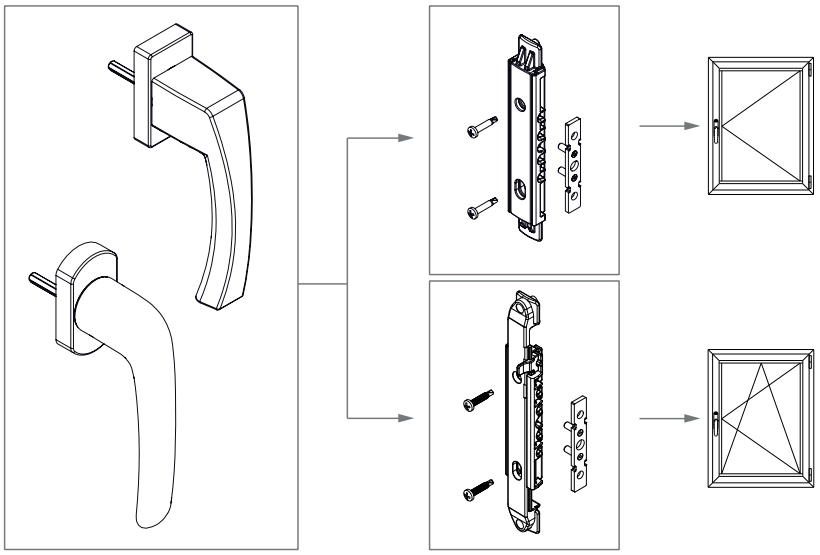
Functions

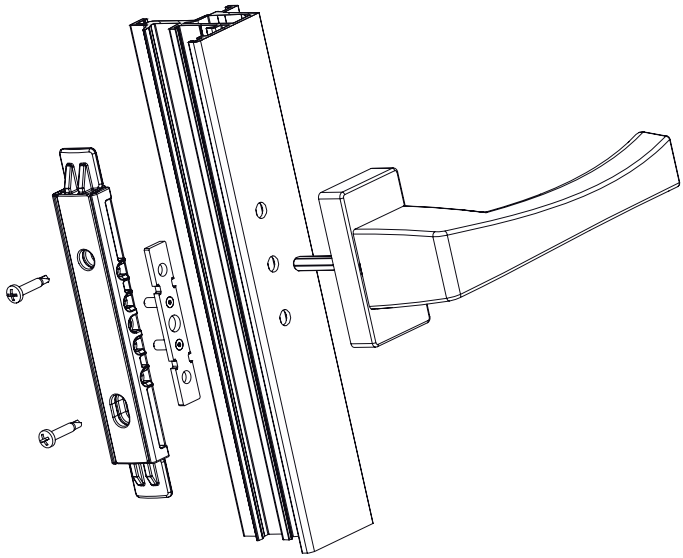
Innovative system of window handles and hardware for operating casements with Inward Opening SASH and TILT-AND-TURN.
Thanks to GIESSE NP® Technology you can make casements with modern styling and minimal, fast machining on the profile.

Technical Features

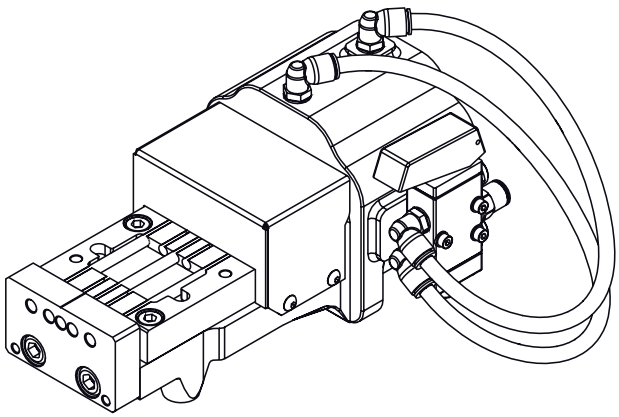
The system works by combining hardware and a window handle that are joined together by a 5 mm hexagon.
Assembling the window handle requires machining the sash profile, which can also be done by using a dedicated punch.
The hardware is available in a two-way version (SASH) and one-way version (TILT-AND-TURN).
The hardware needs no machining on the profile and is secured by means of two self-tapping screws supplied.

NP SUPRA System





Punch art. 5810120000





NP SUPRA - ASIA WINDOW HANDLE

Functions

Reversible window handle for operating Sash and Tilt-and-Turn NP SUPRA window handles.

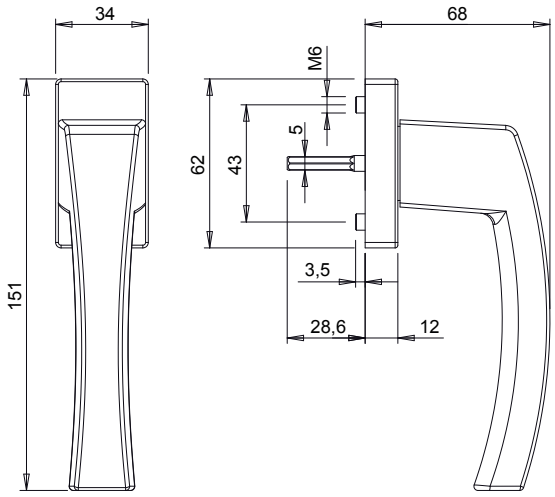
Online data sheet

Technical Features

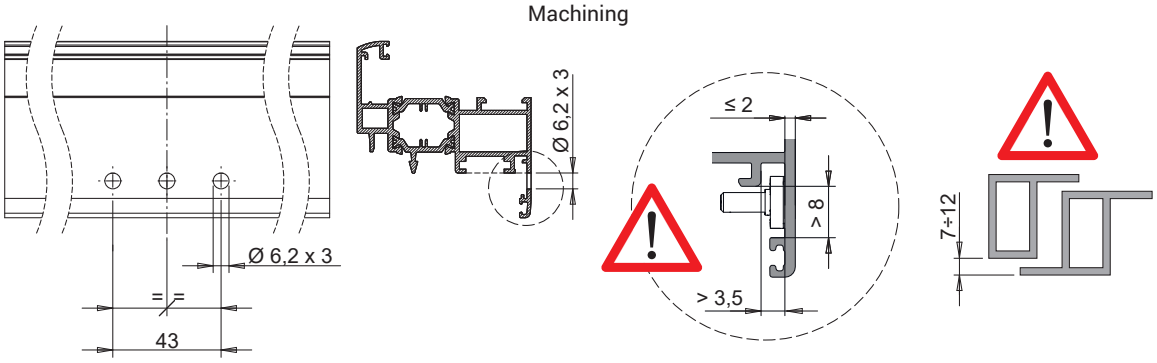
Same window handle for both Sash and Tilt-and-Turn.
Used in combination with NP SUPRA Hardware.
It is locked to the profile by screwing the 2 special screws, pre-assembled on the window handle body, into the fixing plate provided in the mechanism.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm), so there is a specific punch.

Materials

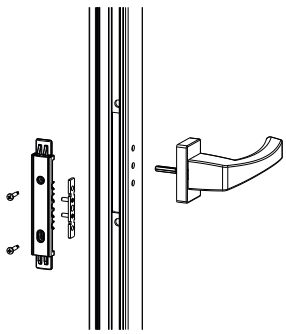
Handle in die-cast aluminium.
Internal components made of GS SILVER PLUS zamak, zinc plated steel and black polyamide.
Zinc plated steel fixing screws.
Die-cast zamak cover.



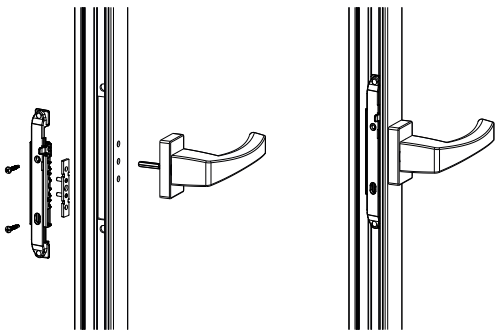
Machining



Sash



Tilt-and-turn window



Item code	Description	PROFILE CROSS - SECTION	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03963	NP - ASIA WINDOW HANDLE	C001-C002-C003-C005-C006-C013-C014-C015-C017	Sash - Tilt-and-Turn	X		X		10



NP SUPRA - PRIMA WINDOW HANDLE

Functions

Reversible window handle for operating Sash and Tilt-and-Turn NP SUPRA window handles.

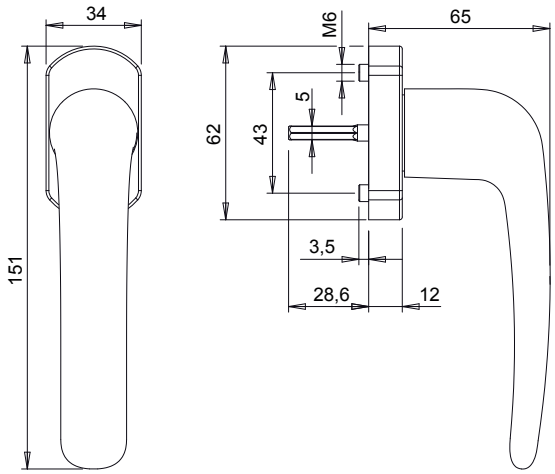
Online data sheet

Technical Features

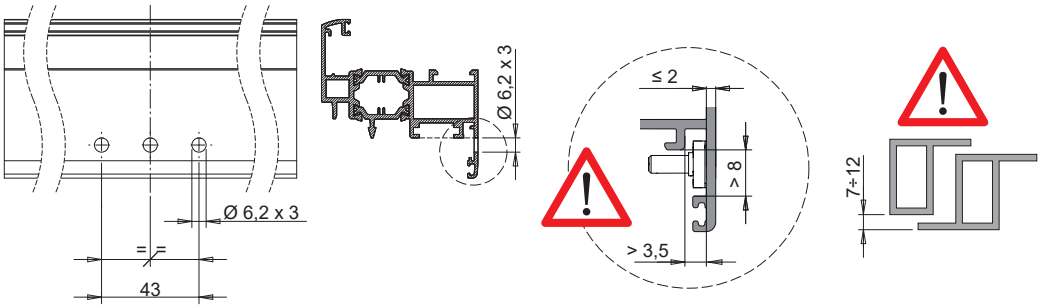
Same window handle for both Sash and Tilt-and-Turn.
Used in combination with NP SUPRA Hardware.
It is locked to the profile by screwing the 2 special screws, pre-assembled on the window handle body, into the fixing plate provided in the mechanism.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm), so there is a specific punch.

Materials

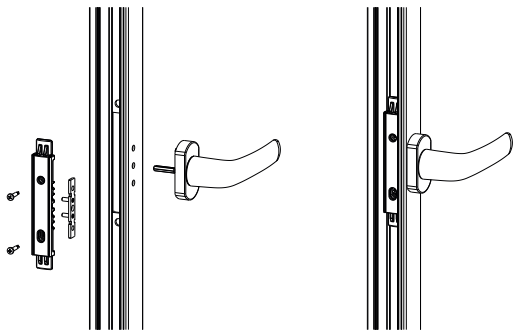
Handle in die-cast aluminium.
Internal components made of GS SILVER PLUS zamak, zinc plated steel and black polyamide.
Zinc plated steel fixing screws.
Die-cast zamak cover.



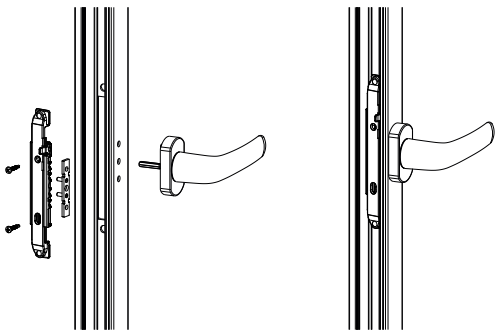
Machining



Sash



Tilt-and-turn window



Item code	Description	PROFILE CROSS - SECTION	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03962	NP - PRIMA WINDOW HANDLE	C001-C002-C003-C005-C006-C013-C014-C015-C017	Sash - Tilt-and-Turn	X		X		10



NP SUPRA - TILT-AND-TURN HARDWARE

Functions

One-way window handle, can be operated with the NP SUPRA window handle, for operating Tilt-and-Turn fastening window handles.

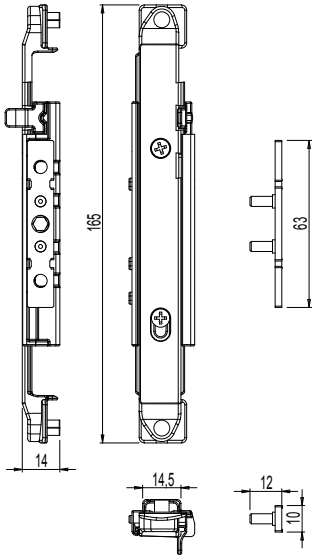
Online data sheet

Technical Features

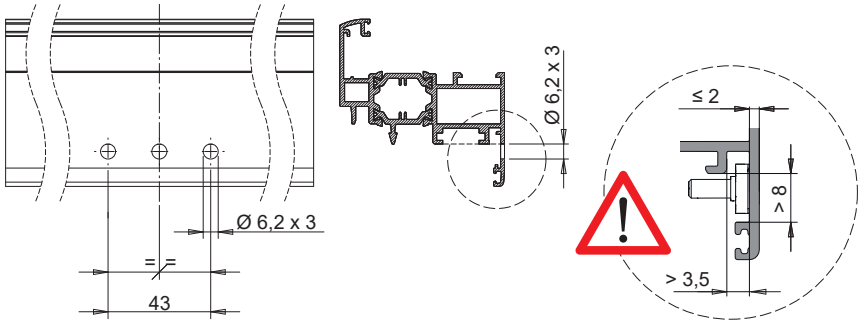
Used in combination with the NP SUPRA window handle (5 mm hexagon).
It is locked to the profile with the 2 self-tapping screws supplied.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm).
The mechanism is two-way and is equipped with an incorrect movement safety device, which prevents turning the window handle while the sash is open.

Materials

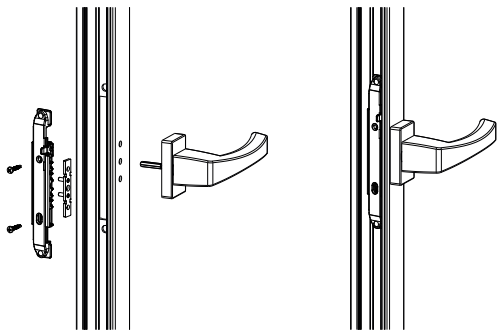
Body, Drive Rod and incorrect movement safety lug made of zamak with GS SILVER PLUS finish.
Pinion and screws 3.9 x 19 made of zinc plated steel.
Stainless steel fixing plate.



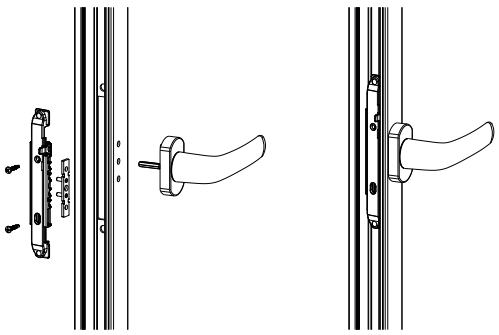
Machining



Asia window handle



Prima window handle



Item code	Description	PROFILE CROSS - SECTION	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0395301	NP - TILT-AND-TURN HARDWARE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	Tilt-and-turn window	one-way	X				10



NP SUPRA - SASH HARDWARE

Functions

Two-way window handle, can be operated with the NP SUPRA window handle, for operating Sash fastening window handles.

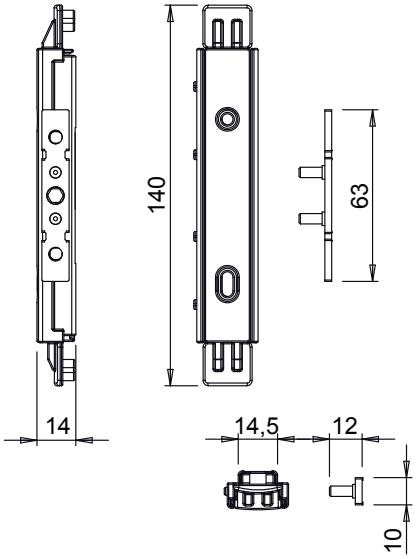
Online data sheet

Technical Features

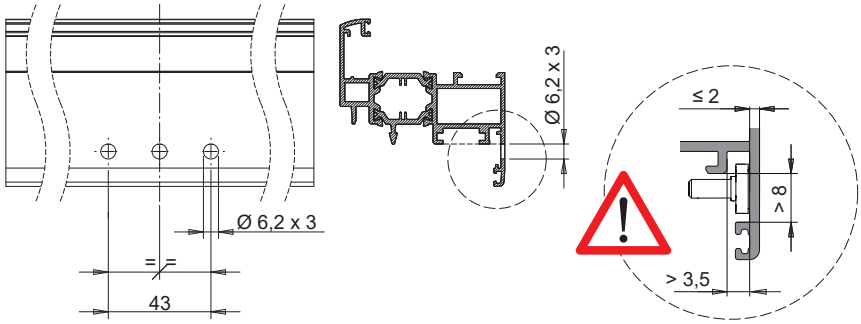
Used in combination with the NP SUPRA window handle (5 mm hexagon).
It is locked to the profile with the 2 self-tapping screws supplied.
There is no need for any milling on the sash tubular profile, it only requires straightforward machining on the profile wall (3 holes Ø6.2 mm).
The mechanism is two-way.

Materials

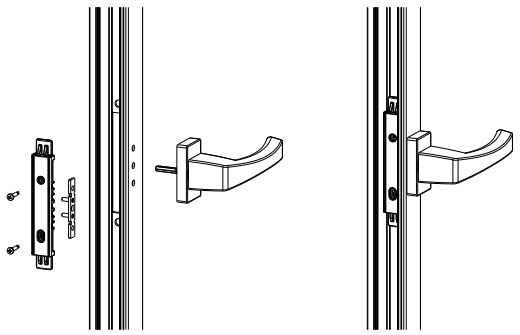
Body, Drive Rod (top and bottom) made of zamak with GS SILVER PLUS finish.
Pinion and screws 3.9 x 19 made of zinc plated steel.
Stainless steel fixing plate.



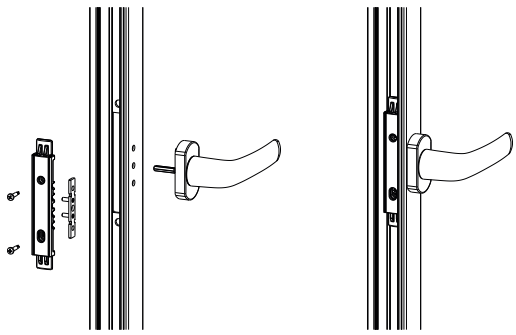
Machining



Asia window handle



Prima window handle



Item code	Description	PROFILE CROSS - SECTION	Type	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03954	NP - SASH MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	Sash	two-way	X				10



NP SUPRA - DRILLING TEMPLATE

Functions

Drilling template for carrying out machining on the NP SUPRA window handle.

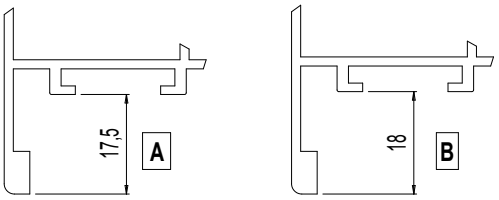
Online data sheet

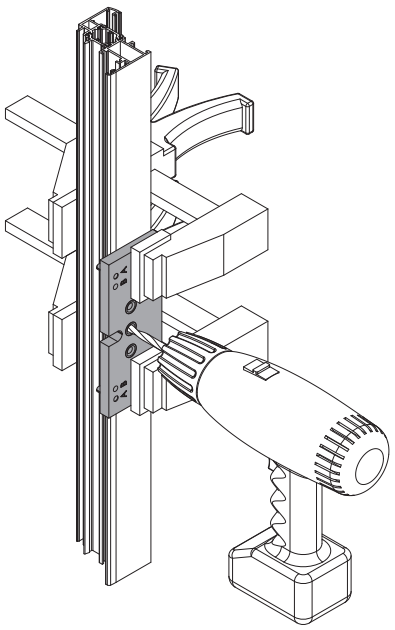
Technical Features

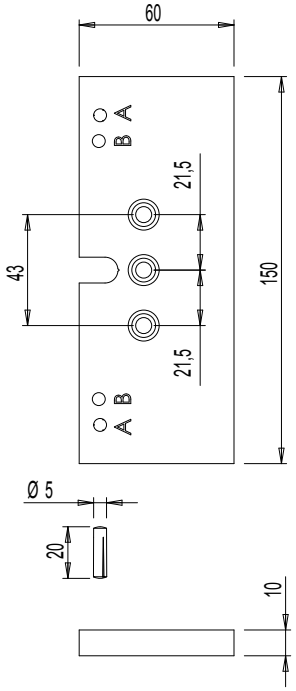
The pin supplied makes it possible to set the template for profiles with tabs 17.5 mm (A) or 18.0 mm (B) in length.
To improve machining precision, we recommend holding it in place using a clamp.

Materials

Aluminium template
Steel bushes and pins







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03536	NP SUPRA - DRILLING TEMPLATE		X				1



KORA CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Online data sheet

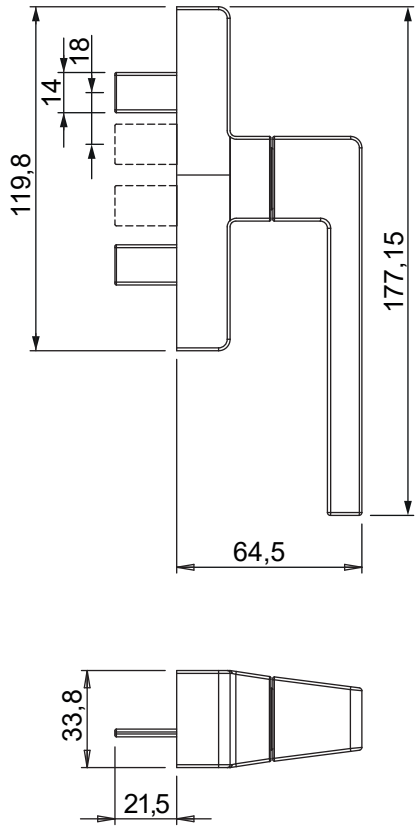
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Kora cremone has a fixing C/C distance of 104 mm and 92 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.

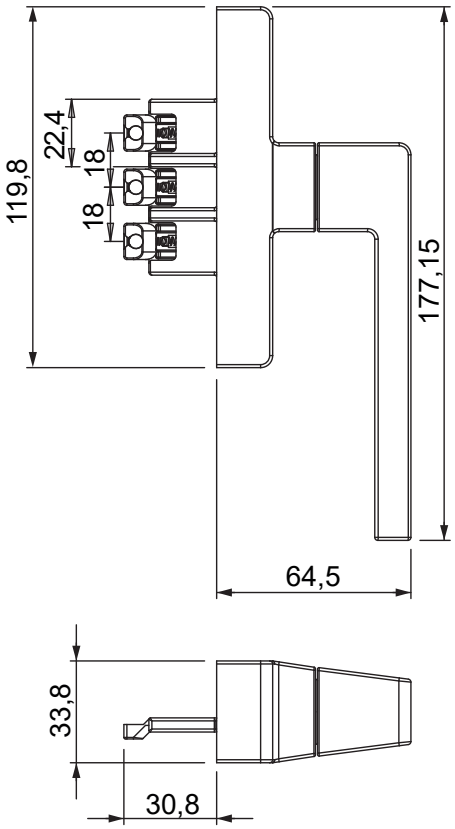
Materials

Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Steel spring
Stainless steel screws and fixing plate

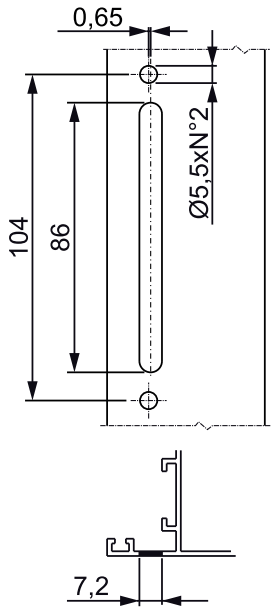
Overall dimensions of cremone for sash



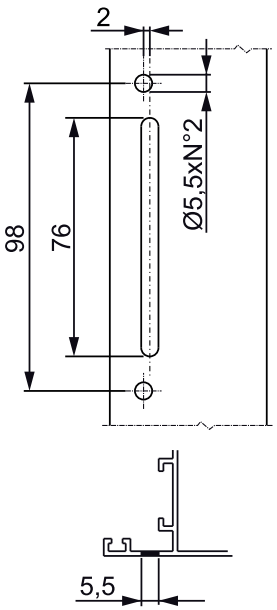
Overall dimensions of cremone for tilt-and-turn



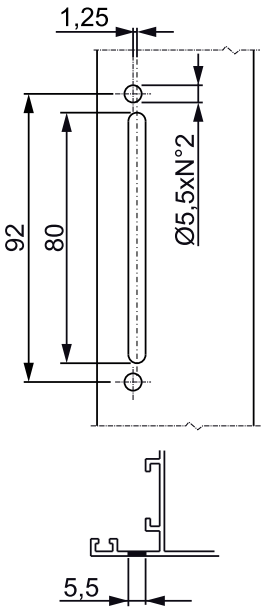
C/C distance machining 104 mm



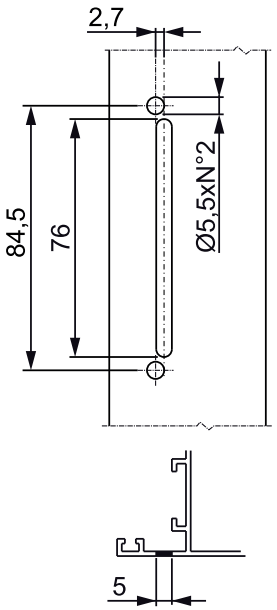
C/C distance machining 98 mm



C/C distance machining 92 mm



C/C distance machining 84.5 mm



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00957	KORA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 92 - 84	two-way	closed	open	-	-	X		X	X	10
00959	KORA T/T MICRO-VENTILATION CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microventilation)	104 - 98 - 92 - 84	one-way	closed	open	micro	bottom-hung windows	X		X	X	10



KORA KEY CREMONE

Functions

Reversible cremone, with key lockable handle, with rotation through 90°, 135° (micro-ventilation version) and 180° and opening/closing positioning notch.

Online data sheet

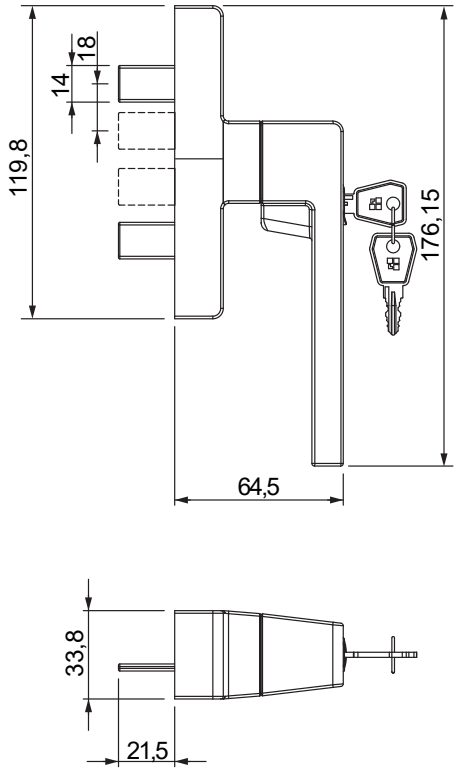
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cylinders of the KORA KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.
The cylinder of the KORA KEY Logica and Microventilation Logica cremones has the Giesse Key Capture system.
The cylinder, depending on the version, allows locking the handle of the cremone to 90°, 135° and 180°. When the handle is at 90° or 135° it is possible to remove the key and then leave the sash in the tilt-and-turn or micro-ventilation position, in safety.
When the pull handle is at 180°, and therefore the sash is in the fully open position, it is not possible to remove the key from the cylinder.

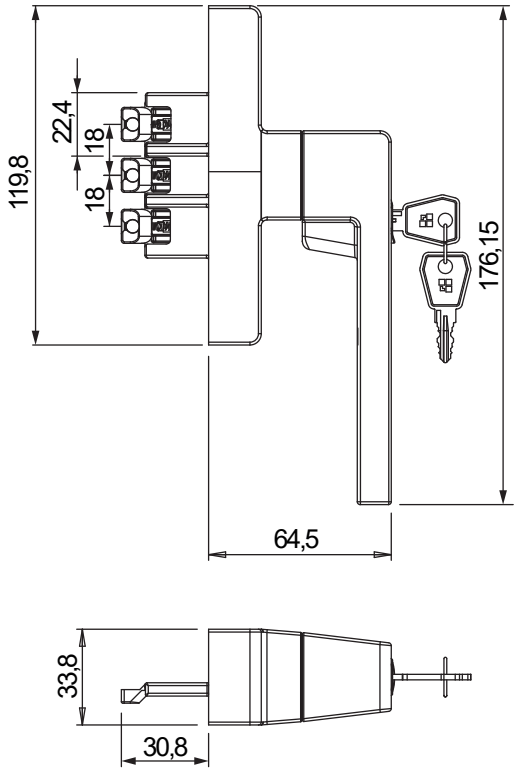
Materials

Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Hostaform plate
Spring, screws and fixing plate in stainless steel

Overall dimensions art. 00958

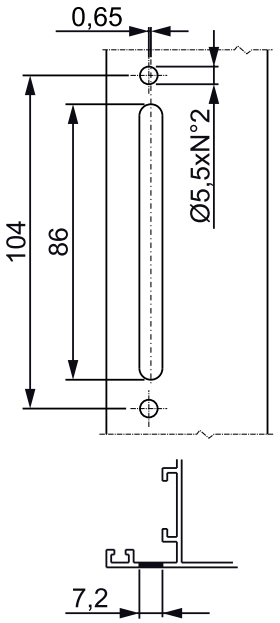


Overall dimensions art. 00960

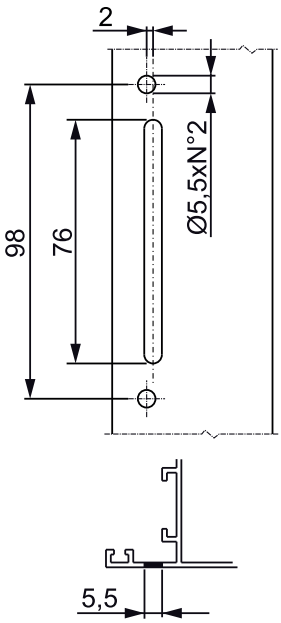


CREMONES

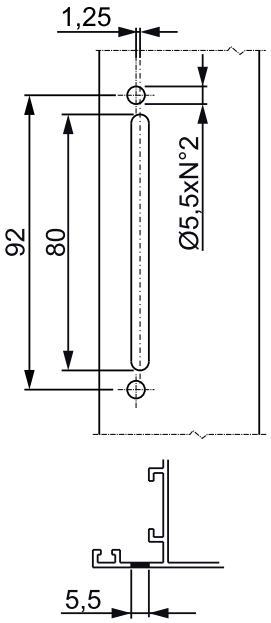
C/C distance machining 104 mm



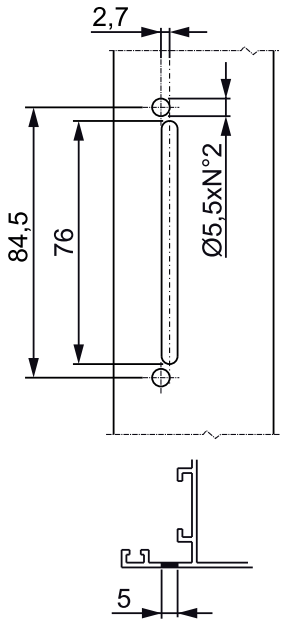
C/C distance machining 98 mm



C/C distance machining 92 mm



C/C distance machining 84.5 mm



Item code	Description	PROFILE CROSS - SECTION	Type	Version	C/C distances	Perfor-mance	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00958	KORA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	-	104 - 98 - 92 - 84	> 100 N/m	two-way	closed	open	-	-	X		X	X	5
00960	SKG KORA KEY MICRO CREMONE	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Tilt-and-turn window	Micro	104 - 98 - 92 - 84	> 100 N/m	one-way	closed	open	micro	bot-tom-hung windows	X		X	X	5
00961	KORA KEY T/T CREMONE LGC	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	Logica	104 - 92	> 100 N/m	one-way	closed	bot-tom-hung windows	-	open	X		X	X	5
00962	KORA KEY T/T CREMONE LGC MICRO	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	Micro	104 - 92	> 100 N/m	one-way	closed	bot-tom-hung windows	micro	open	X		X	X	5



EURO CREMONE

Functions

Reversible cremone handle for operating GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Online data sheet

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90°, 135° and 180°.
The EURO cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
Depending on the version, the C/C distances of 84, 92, 96, 98, 104 and 130 mm are possible.

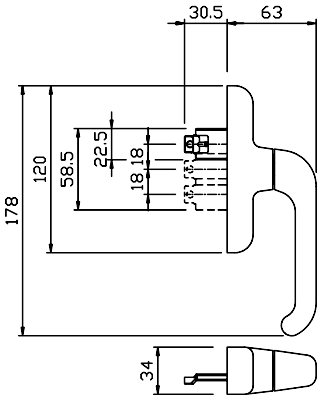
Materials

Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

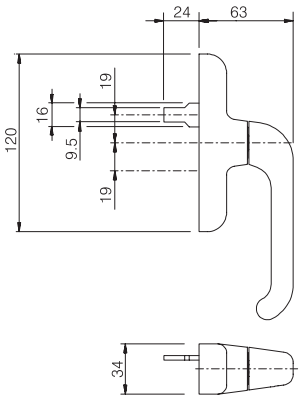
Parts

1 fixing plate
2 HSHC screws M5x14

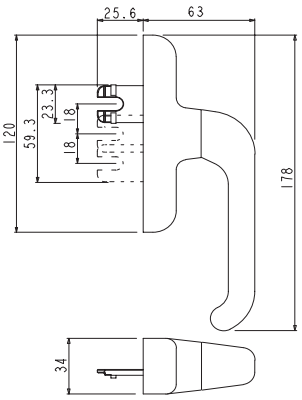
A. One-way version



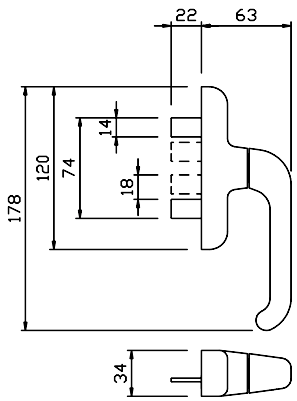
B. One-way version



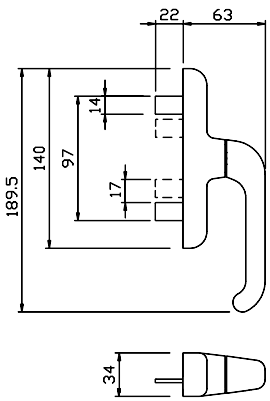
C. One-way version



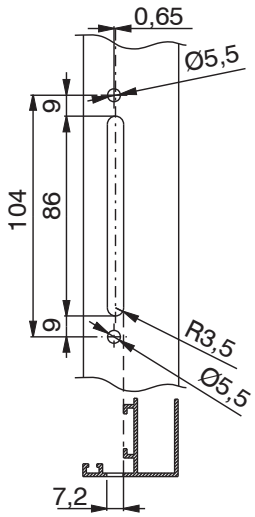
D. Two-way version (C/C distance 84.5 - 98 - 104 mm)



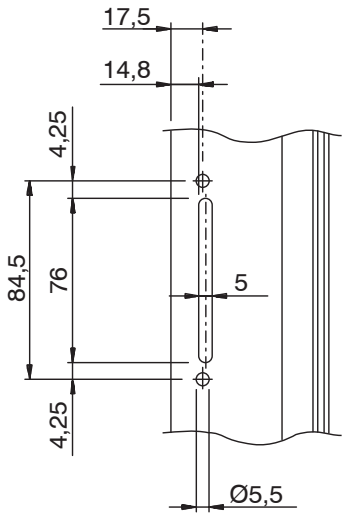
E. Two-way version (C/C distance 130 mm)



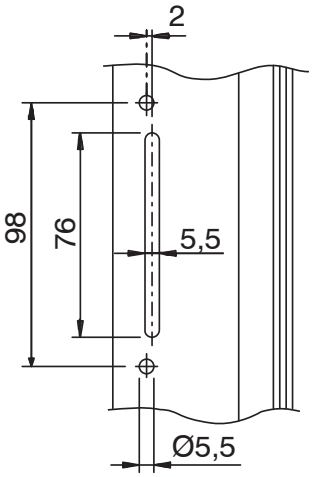
C/C distance machining 104 mm



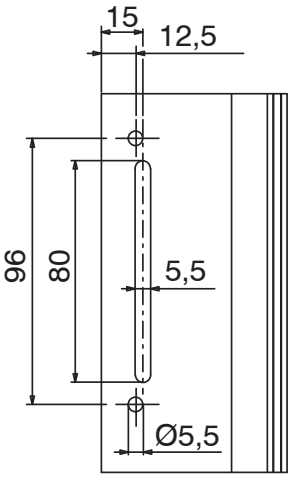
C/C distance machining 84.5 mm



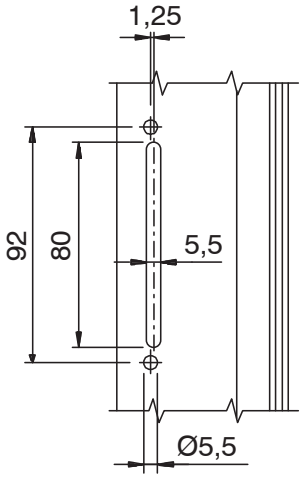
C/C distance machining 98 mm



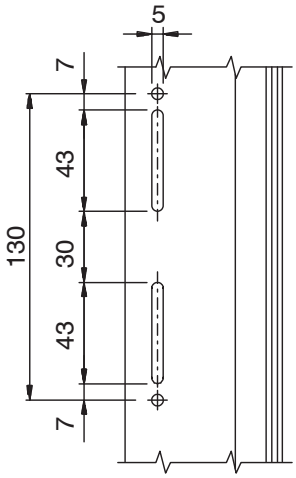
C/C distance machining 96 mm



C/C distance machining 92 mm



C/C distance machining 130 mm



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Figure	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01000U	EURO CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 84	Two-way	D	Closed	open	-	-	X		X	X	10
01008	EURO CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	130	Two-way	E	Closed	open	-	-	X		X		20
01090K	EURO 900 CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	A	Closed	open	-	bot-tom-hung windows	X		X		10
01094	EURO 900 MICRO CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microven-tilation)	104 - 98 - 84	One-way	A	Closed	open	Micro	bot-tom-hung windows	X		X		10
01108	EURO 900 CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	98	One-way	B	Closed	open	-	bot-tom-hung windows	X		X		20
01109	EURO 900 CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	C	Closed	open	-	bot-tom-hung windows	X		X		20



EURO KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, with 90° rotation (side-hung window) or 90° and 180° (tilt-and-turn window) and opening/closing positioning notch.

Online data sheet

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The EURO KEY cremones, supplied right-hand, have a fixing C/C distance of 104 mm and 84 mm, but can be easily adapted for mounting with a C/C distance of 98 mm.
Uses a cylinder made to European standard dimensions. When necessary you can replace the cylinder, product 01045.

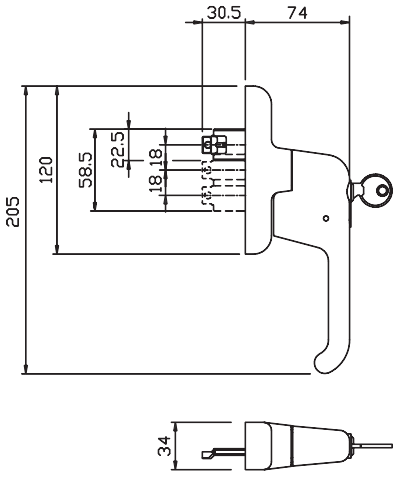
Materials

Handle in die-cast aluminium
Cremone case and gear in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel
Brass cylinder

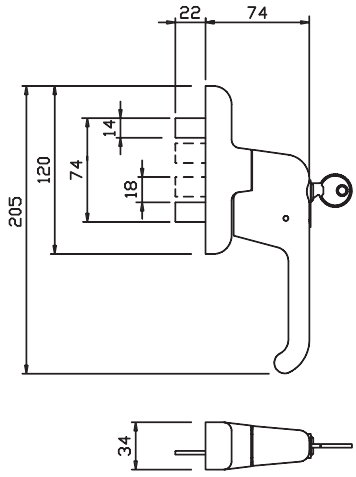
Parts

1 fixing plate
2 HSHC screws M5x14
3 Keys

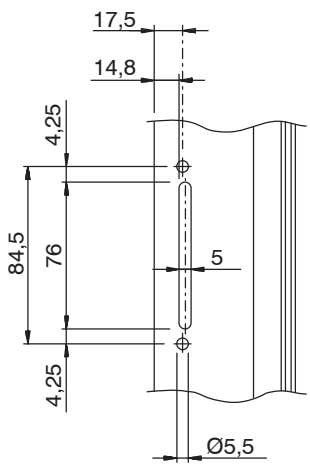
One-way version



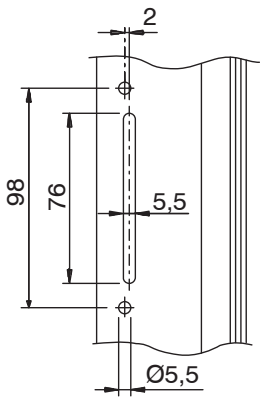
Two-way



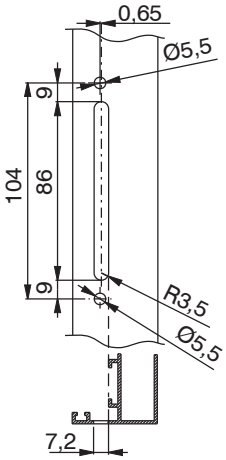
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01002	EURO KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 84	Two-way	Closed	Open	-	X		X		5
01092K	EURO KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	Closed	Open	Bottom-hung windows	X		X		5



EURO UNIVERSAL CREMONE

Functions

Reversible cremone handle for central gasket systems with one-way mechanism, equipped with 90°, 135° (microventilation) and 180° rotation and snap positioning.

Online data sheet

Technical Features

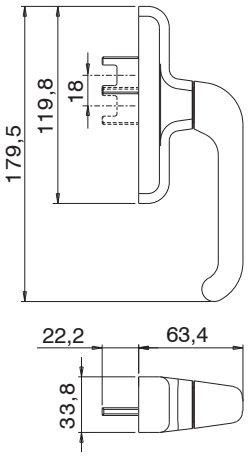
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cremone is specific to one-way mechanisms such as the tilt-and-turn window and for the side-hung window it also enables using micro-ventilation.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
Available also in a version with the Rapid 104 hook, which is a patented system, fast both to assemble and disassemble.

Materials

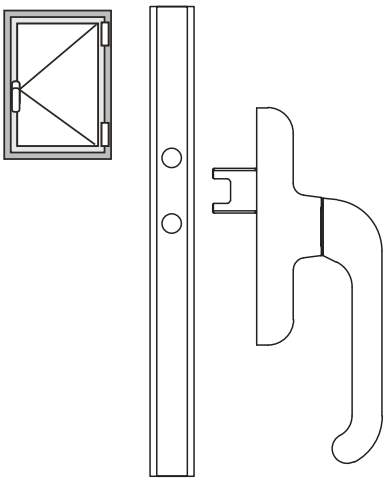
Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

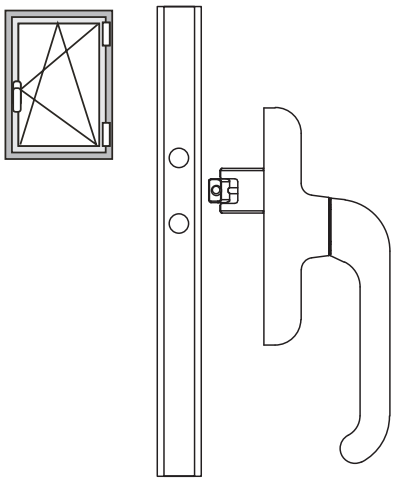
Parts

1 fixing plate
2 HSHC screws M5x14

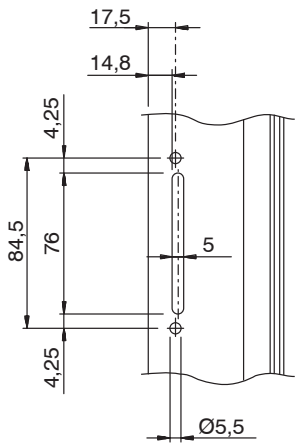


Version for sash and tilt-and-turn windows

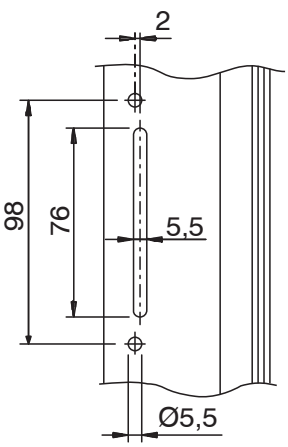




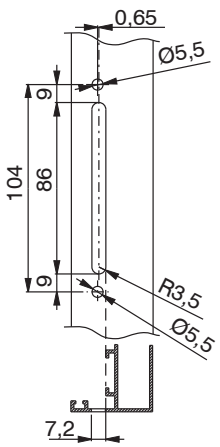
C/C distance machining 84.5 mm



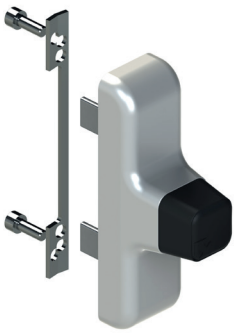
C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Version	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01037	EURO UNIVERSAL CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Micro-ventilation	104 - 98 - 84			X		10
01057R	EURO UNIVERSAL CREMONE (RAPID 104)	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Rapid	104	X		X		10



EURO AWAY CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash and Tilt-and-Turn Window mechanisms. Enables operating casements and removing the handle for security requirements.

Online data sheet

Technical Features

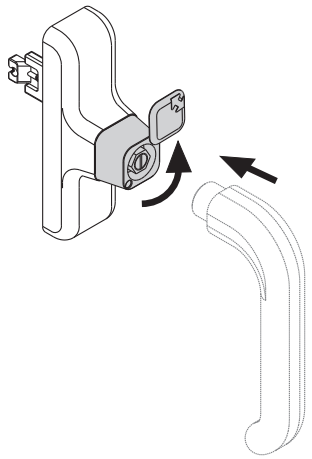
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90° and 180°.
The EURO AWAY cremone, supplied right-handed, has fixing C/C distance of 104 mm (for alternative C/C distance see the table).
Available in both one-way and two-way versions.
For use in combination with the adjustable pull handle art. 01130.

Materials

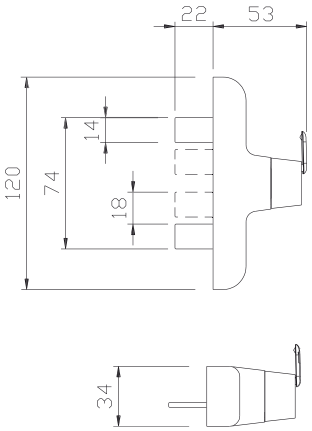
Cremone case, gear
Racks and die-cast zamak sliders
Internal sheath and Hostaform plate
Stainless steel screws and fixing plate
Away turret and cap in black polyamide

Parts

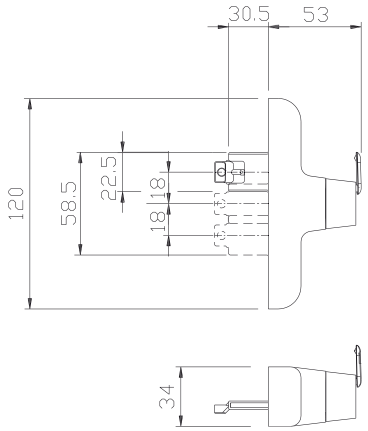
1 fixing plate
2 HSHC screws M5x14



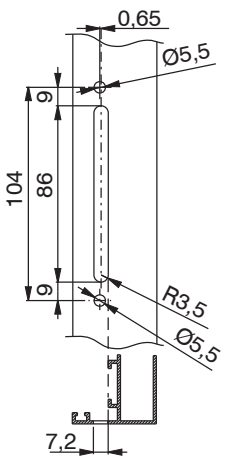
Sash version



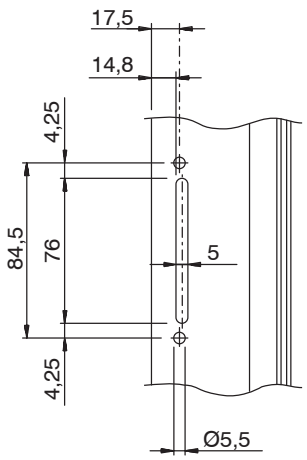
Tilt-and-turn window version



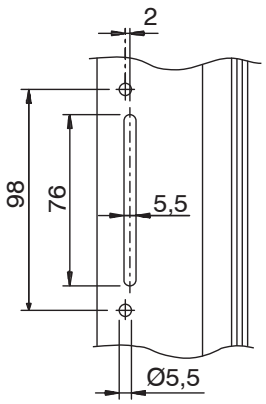
C/C distance machining 104 mm



C/C distance machining 84.5 mm



C/C distance machining 98 mm



Item code	Description	PROFILE CROSS - SECTION	Version	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01001	EURO AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	104 - 98 - 84	Two-way	Closed	Open	-	X		X		5
01091K	EURO AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 84	One-way	Closed	Open	Bottom-hung windows	X		X		5
01130	EURO REMOVABLE PULL HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	-	-	-	-	-	-	X				1



EURO CW CREMONE

Functions

Cremone for curtain walls with 90° (two-way) and 90° – 180° (one-way) rotation and opening/closing positioning notch.

Online data sheet

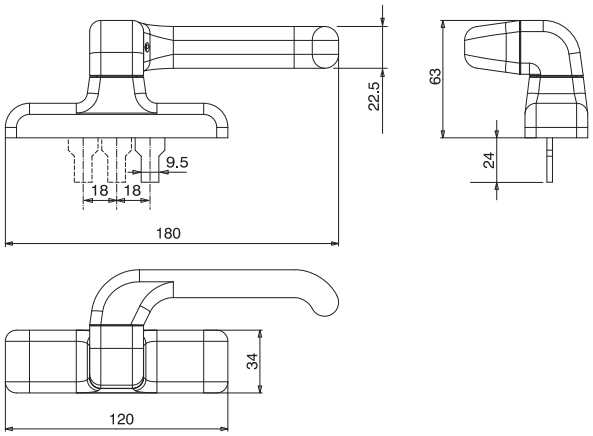
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
EURO CW cremones are designed for installation with C/C distance 98 mm, but can easily be adapted for fixing with a C/C distance of 104 mm and 84 mm. The special form of the pull handle makes it easy to insert the hand, thus allowing the handling of large-size sashes.

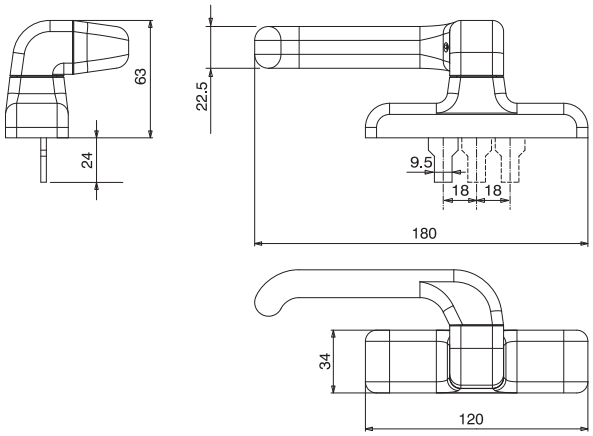
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak.
Offset block and plate in die-cast zamak
Hostaform internal sheathing
Spring, screw and fixing plate in stainless steel

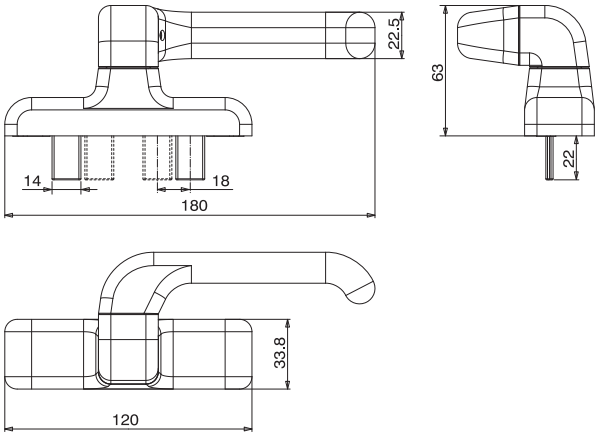
050062 - LX



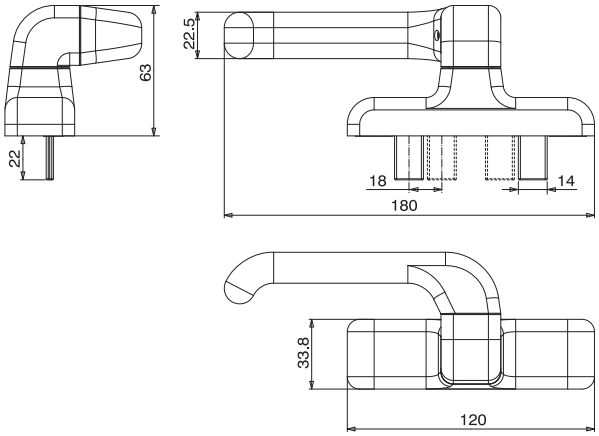
050061 - RX



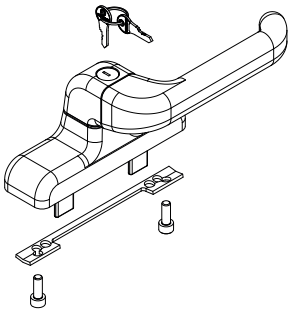
050072 - LX



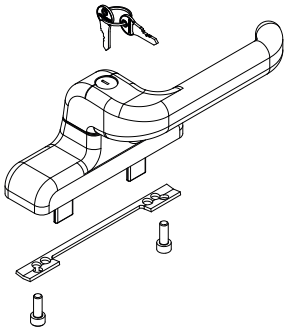
050071 - RX

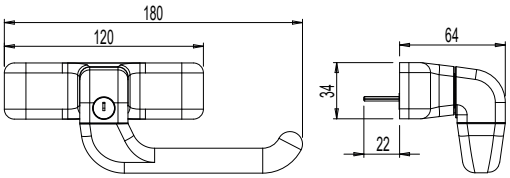


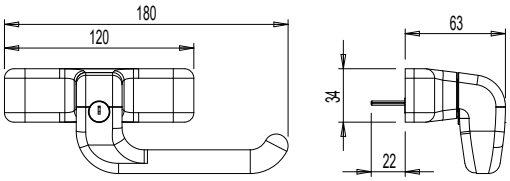
05008



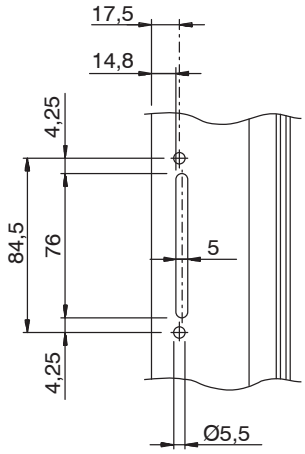
050081



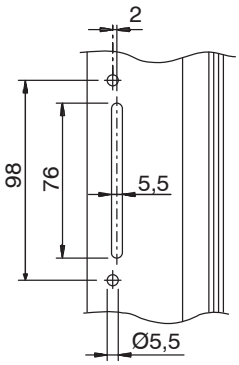




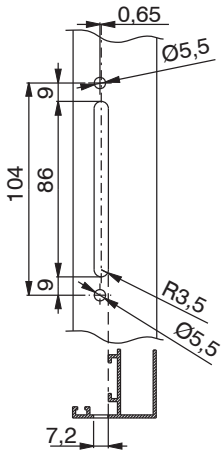
C/C distance machining 84.5 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	Version	Hand	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
050061	EURO CW1 CREMONE-RIGHT		rx	104 - 98 - 84	one-way	Closed	open	X		X		5
050062	EURO CW1-LEFT CREMONE		lx	104 - 98 - 84	one-way	Closed	open	X		X		5
050071	EURO CW2 CREMONE-RIGHT		rx	104 - 98 - 84	two-way	Closed	open	X		X		5
050072	EURO CW2-LEFT CREMONE		lx	104 - 98 - 84	two-way	Closed	open	X		X		5
05008	EURO KEY CW2 CREMONE	Key	RH (reversible)	104 - 98 - 84	two-way	Closed	open	X		X		5
050081	EURO KEY CW2 CREMONE-RIGHT	Key	rx	104 - 98 - 84	two-way	Closed	open	X		X		5



PRIMA CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Online data sheet

Technical Features

The use of high quality die-cast materials, together with the GIESSE painting system, guarantees excellent mechanical performance, as well as colour uniformity and strong resistance to abrasion.
Depending on the version, they are available with snap positioning of the pull handle at 0°, 90°, 135° and 180°.
The PRIMA cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
Depending on the version, the C/C distances of 84, 98 and 104 mm are possible.

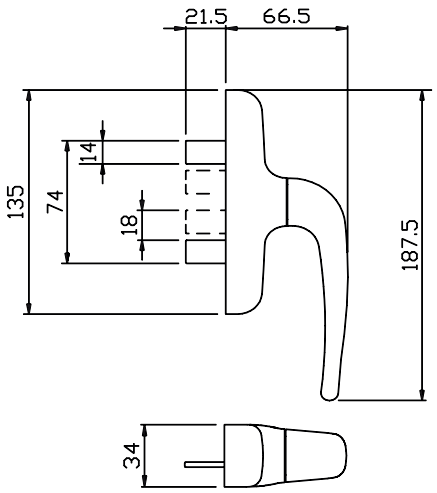
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel
On the Brass version, the case and handle are made of brass

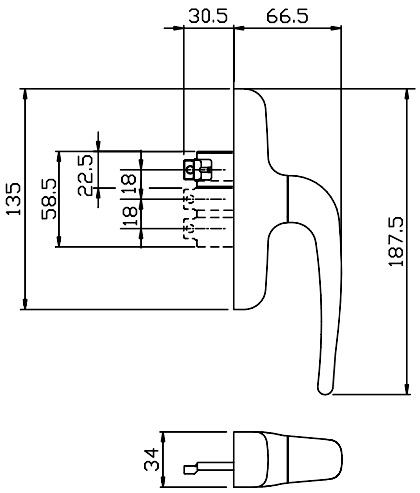
Parts

1 fixing plate
2 HSHC screws M5x14

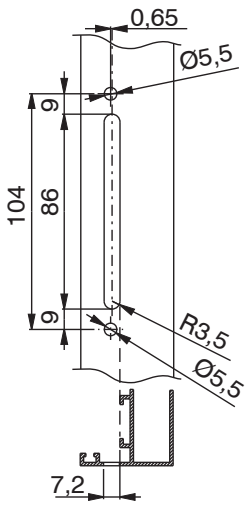
Version for sash



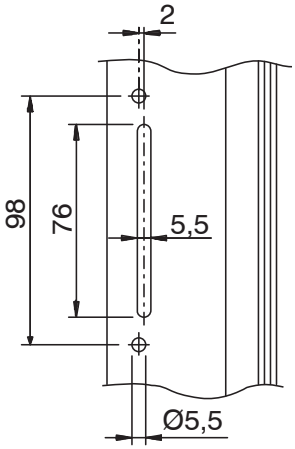
Version for tilt-and-turn window



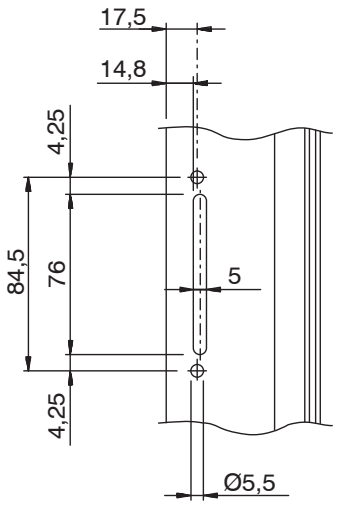
C/C distance machining 104 mm



C/C distance machining 98 mm



C/C distance machining 84.5 mm



Item code	Description	PROFILE CROSS - SECTION	Material	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01024U	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash	104 - 98 - 84	two-way	closed	open			X		X		10
01039	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		Tilt-and-turn window (microventilation)	104 - 98 - 84	one-way	closed	open	micro	bottom-hung windows	X		X		10
01120	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Brass	Tilt-and-turn window (microventilation)	104 - 98 - 84	one-way	closed	open	micro	bottom-hung windows				X	2
01121	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Brass	Sash	104 - 98 - 84	two-way	closed	open						X	2



PRIMA KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, with 90° rotation (side-hung window) or 90° and 180° (tilt-and-turn window) and opening/closing positioning notch.

Online data sheet

Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.
The cylinder of the PRIMA KEY Logica and Microventilation cremones has the Giesse Key Capture system.
The cylinder, depending on the version, allows locking the handle of the cremone to 90°, 135° and 180°. When the handle is at 90° or 135° it is possible to remove the key and then leave the sash in the tilt-and-turn or micro-ventilation position, in safety.
When the pull handle is at 180°, and therefore the sash is in the fully open position, it is not possible to remove the key from the cylinder.

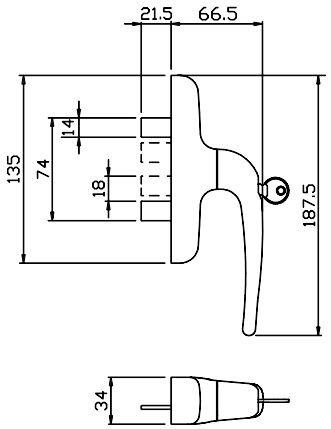
Materials

Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

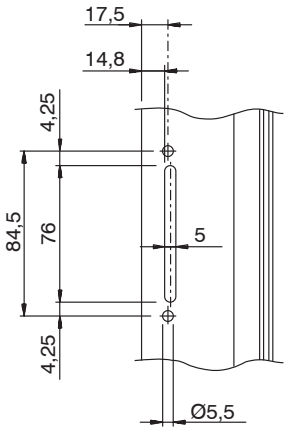
Parts

1 fixing plate
2 HSHC screws M5x14

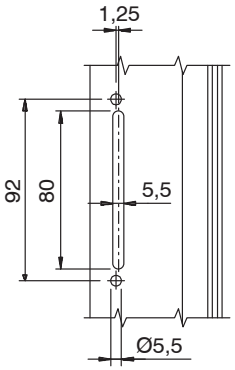
Two-way version



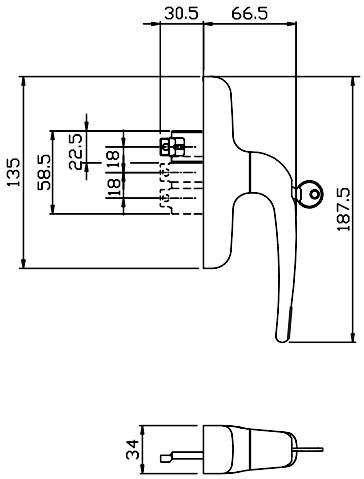
C/C distance machining 84.5 mm



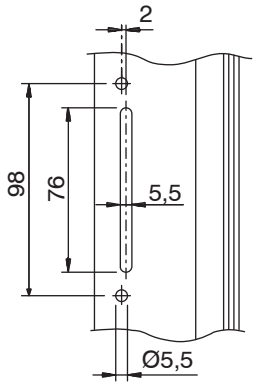
C/C distance machining 92 mm



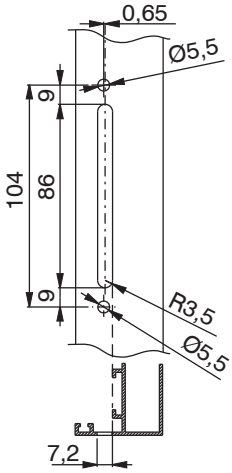
One-way version



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Material	Type	Version	C/C distances	Performance	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01011	PRIMA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash		104 - 98 - 92 - 84	> 100 N/m	Two-way	Closed	Open	-	-	X		X		5
01019	PRIMA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Brass	Sash		104 - 98 - 84		Two-way	Closed	Open	-	-				X	2
0114901	PRIMA KEY CAPTURE CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		Tilt-and-turn window		104 - 92		One-way	Closed	Bottom-hung windows	-	Open key not removable	X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017		Tilt-and-turn window	Micro	104 - 98 - 92 - 84	> 100 N/m	One-way	Closed	Open	Micro	Bottom-hung windows	X		X	X	5
01192	PRIMA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C010-C012-C013-C014-C014-C015-C016-C017		Tilt-and-turn window	Logica	104 - 92	> 100 N/m	One-way	Closed	Bottom-hung windows	-	Open key not removable	X		X		5
01194	PRIMA KEY CAPTURE MICRO CREMONE	C001-C002-C003-C004-C005-C006-C007-C010-C012-C013-C014-C014-C015-C016		Tilt-and-turn window	Micro	104 - 92	> 100 N/m	One-way	Closed	Bottom-hung windows	Micro	Open key not removable	X		X	X	5
01209	PRIMA KEY CAPTURE CREMONE	-		Tilt-and-turn window	Logica - handle 200 mm	104 - 92	> 100 N/m	One-way	Closed	Bottom-hung windows	-	Open key not removable			X		5



PRIMA UNIVERSAL CREMONE

Functions

Reversible cremone handle for central gasket systems with one-way mechanism, equipped with 90°, 135° (microventilation) and 180° rotation and snap positioning.

Online data sheet

Technical Features

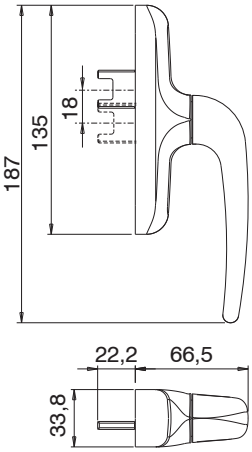
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cremone is specific to one-way mechanisms such as the tilt-and-turn window and for the side-hung window it also enables using micro-ventilation.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
Available also in a version with the Rapid 104 hook, which is a patented system, fast to assemble.

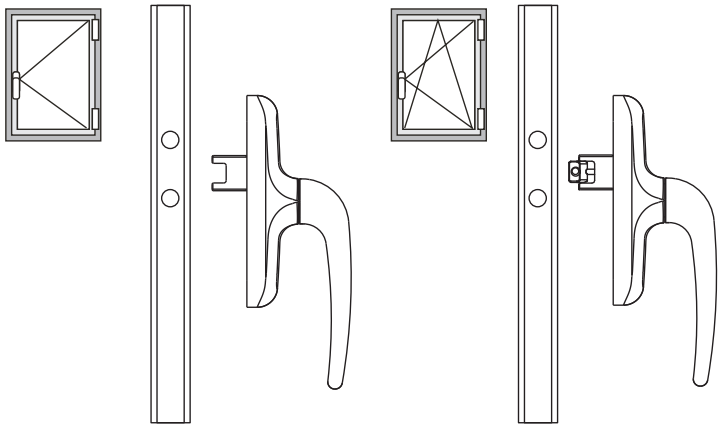
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

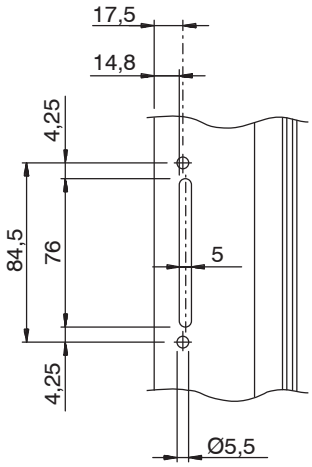
Parts

1 fixing plate
2 HSHC screws Mx14

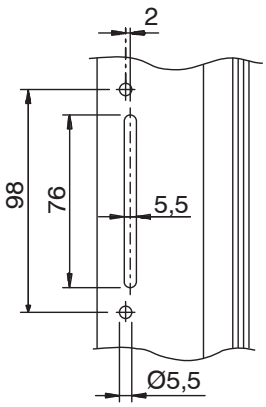




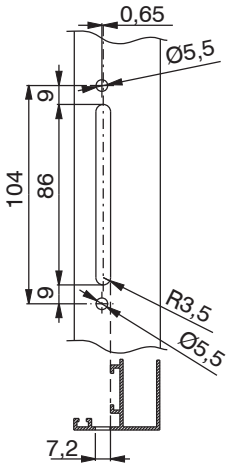
C/C distance machining 84.5 mm



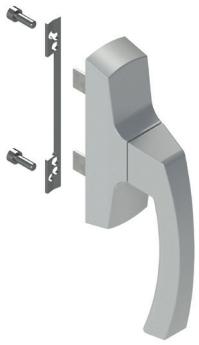
C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Material	Version	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01038	PRIMA UNIVER.MICROVENTILA-TION CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		Micro-ventilation	104 - 98 - 84	X		X		10
01058R	PRIMA UNIVERSAL CREMONE (RAPID 104)	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		Rapid	104	X		X		10



ASIA CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash, Tilt-and-Turn Window and Tilt-and-Turn Window with Microventilation mechanisms.

Online data sheet

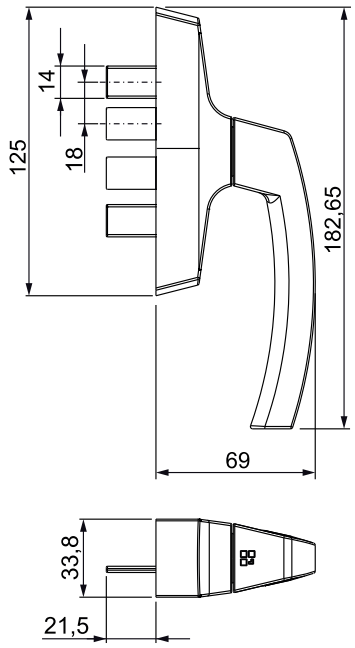
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Asia cremone has a fixing C/C distance of 104 mm and 92 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.

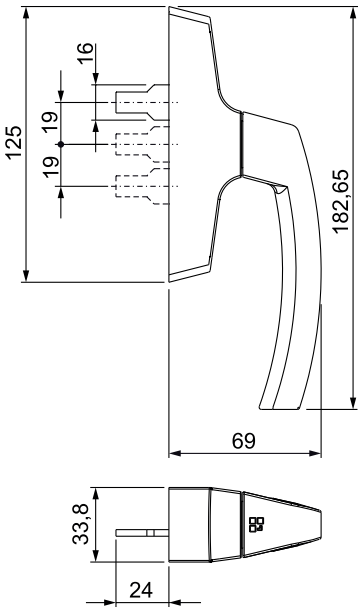
Materials

Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Steel spring
Stainless steel screws and fixing plate

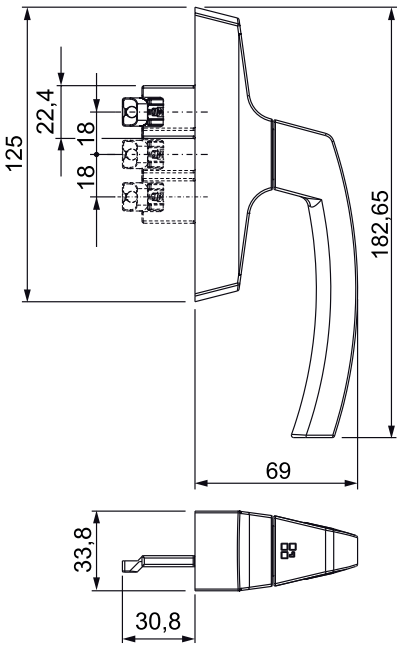
Overall dimensions of cremone for sash



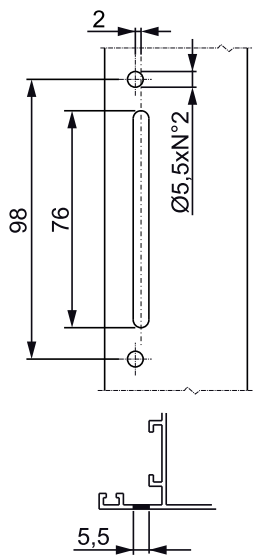
Overall dimensions of cremone for MP tilt-and-turn



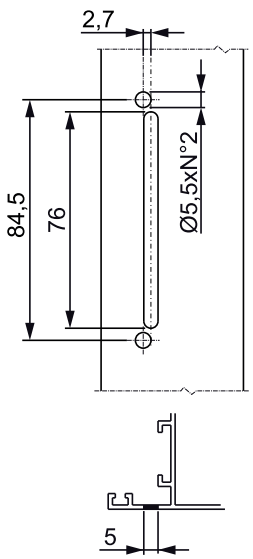
Overall dimensions of cremone for tilt-and-turn



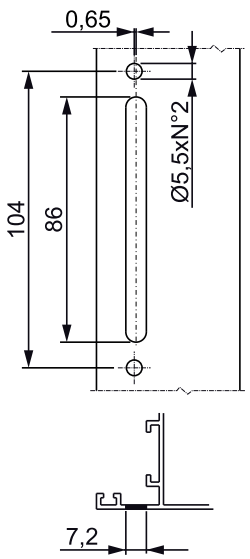
C/C distance machining 98 mm



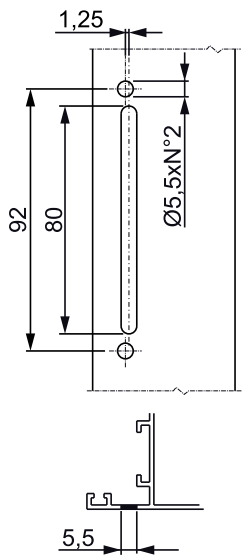
C/C distance machining 84.5 mm



C/C distance machining 104 mm



C/C distance machining 92 mm



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01064	ASIA MP CREMONE	-	Tilt-and-turn window	104 - 98 - 92 - 84	one-way	closed	open	-	bot-tom-hung windows	X		X		20
01076	ASIA CREMONE	C001-C003-P002-P006	Sash	104 - 98 - 92 - 84	two-way	closed	open	-	-	X		X		10
01083	ASIA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	104 - 98 - 92 - 84	one-way	closed	open	-	bot-tom-hung windows	X		X		10
01084	ASIA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window (microventi-lation)	104 - 98 - 92 - 84	one-way	closed	open	micro	bot-tom-hung windows	X		X	X	10



ASIA KEY CREMONE

Functions

Reversible cremone, with key lockable handle, with rotation through 90°, 135° (micro-ventilation version) and 180° and opening/closing positioning notch.

Online data sheet

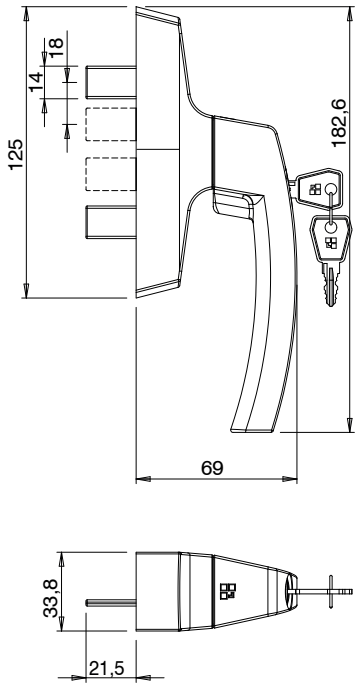
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The cylinders of the ASIA KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.
The cylinder of the ASIA KEY Logica and Microventilation Logica cremones has the Giesse Key Capture system.
The cylinder, depending on the version, allows locking the handle of the cremone to 90°, 135° and 180°. When the handle is at 90° or 135° it is possible to remove the key and then leave the sash in the tilt-and-turn or micro-ventilation position, in safety.
When the pull handle is at 180°, and therefore the sash is in the fully open position, it is not possible to remove the key from the cylinder.

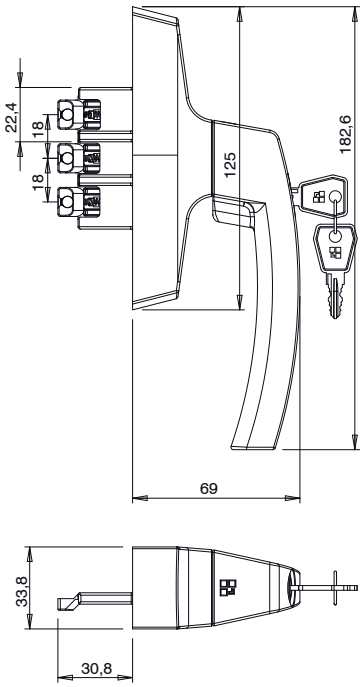
Materials

Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Hostaform plate
Spring, screws and fixing plate in stainless steel

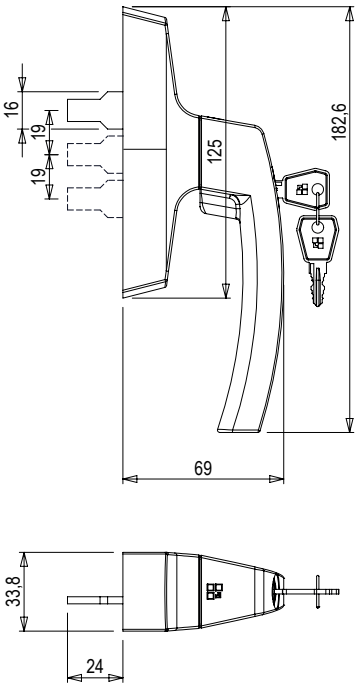
Overall dimensions art. 01065



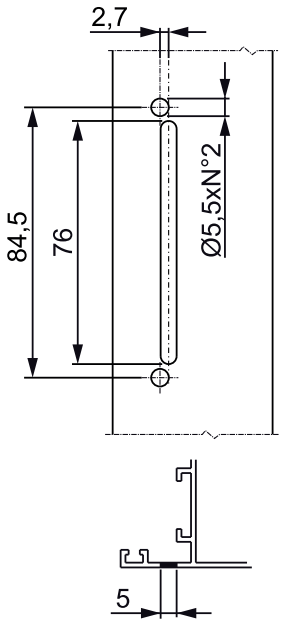
Overall dimensions art. 01085



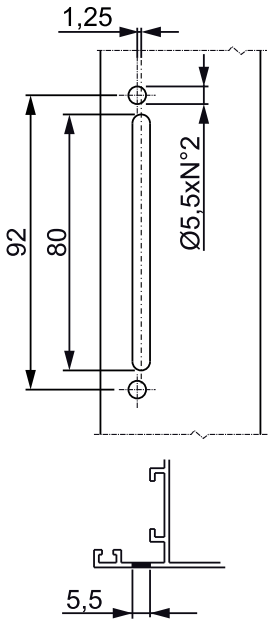
Overall dimensions art. 01196



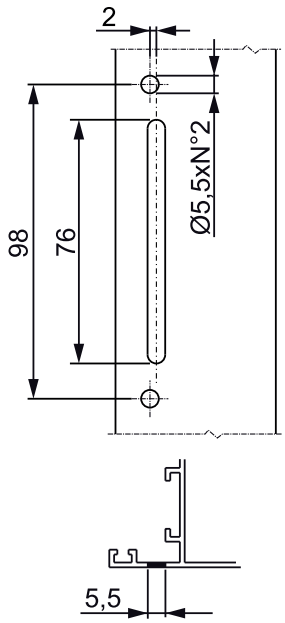
C/C distance machining 84.5 mm



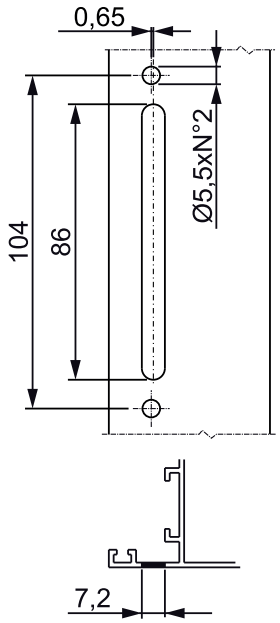
C/C distance machining 92 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



Item code	Description	PROFILE CROSS - SECTION	Type	Version	C/C distances	Performance	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01065	ASIA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Sash	-	104 - 98 - 92 - 84	> 100 N/m	two-way	closed	open	-	-	X		X		5
0108501	SKG ASIA KEY MICRO CREMONE	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Tilt-and-turn window	Micro	104 - 98 - 92 - 84	> 100 N/m	one-way	closed	open	micro	bottom-hung windows	X		X	X	5
01086	ASIA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	Logica	104 - 92	> 100 N/m	one-way	closed	bottom-hung windows	-	open	X		X		5
01087	ASIA KEY CAPTURE MICRO CREMONE	C001	Tilt-and-turn window	Micro	104 - 92	> 100 N/m	one-way	closed	bottom-hung windows	micro	open	X		X		5
01196	ASIA KEY T/T MONOPINNA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Tilt-and-turn window	-	104 - 98 - 92 - 84	> 100 N/m	One-way	closed	open	-	bottom-hung windows	X		X		5



ASIA UNIVERSAL CREMONE

Functions

Reversible cremone for central gasket systems with one-way mechanism, equipped with 90°, 180° rotation and positioning notch.

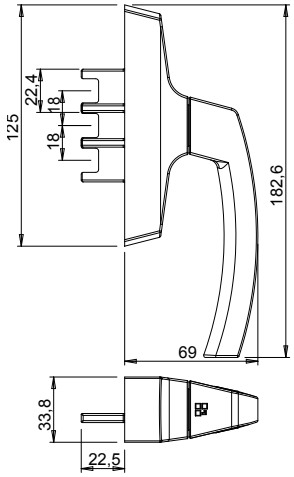
Online data sheet

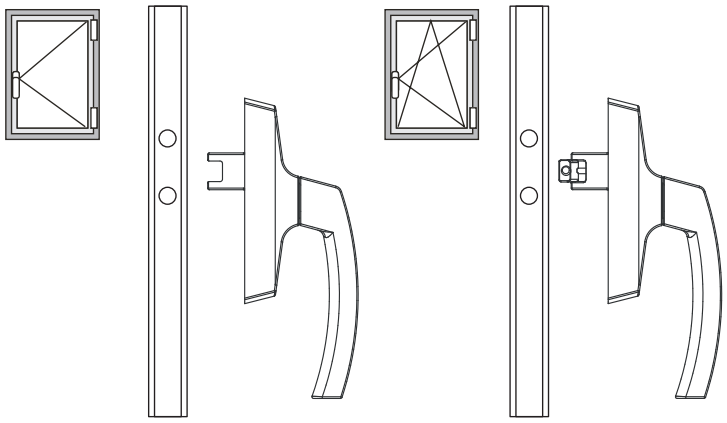
Technical Features

The cremone is specific to one-way closing systems such as tilt-and-turn and side-hung.
Product designed as part of the GIESSE SPACE Project, for use in combination with GIESSE automatic machines.
The incorrect movement safety device necessary for tilt-and-turn windows is contained in the SPAZIO GIESSE tilt-and-turn mechanism.
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.

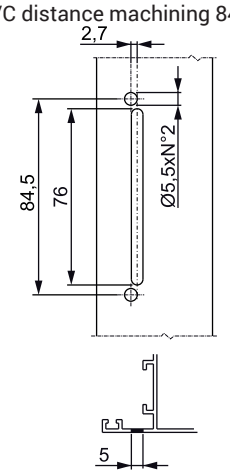
Materials

Handle in die-cast aluminium
Cremone case, gear, racks and sliding parts in die-cast zamak
Internal sheath and Hostaform plate
Spring, screw and fixing plate in stainless steel

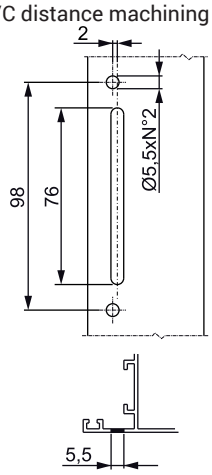




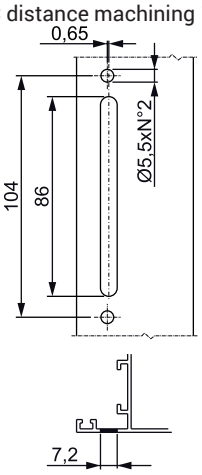
C/C distance machining 84.5



C/C distance machining 98



C/C distance machining 104



Item code	Description	PROFILE CROSS - SECTION	C/C distances	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01005	ASIA UNIVERSAL CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 98 - 84	one-way	X		X		10



ASIA AWAY CREMONE

Functions

Reversible cremone handle for operating GIESSE Sash and Tilt-and-Turn with micro-ventilation mechanisms. Enables operating casements and removing the handle for security requirements.

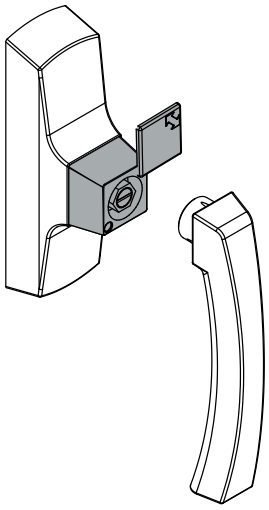
Online data sheet

Technical Features

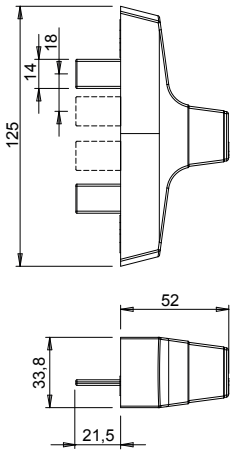
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
Depending on the version, they are available with snap positioning of the handle at 0°, 90°, 135° and 180°.
The ASIA cremone is supplied pre-assembled right-handed.
Available in both one-way and two-way versions.
The Asia cremone has a fixing C/C distance of 104 mm and 92 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.
For use in combination with the removable handle.

Materials

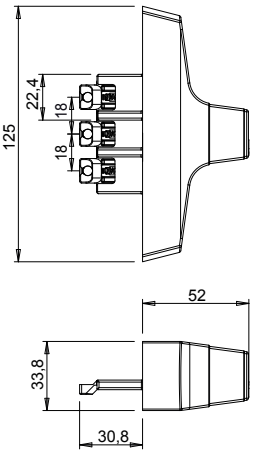
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Stainless steel screws and fixing plate
Away turret and cap in black polyamide
Handle in die-cast aluminium



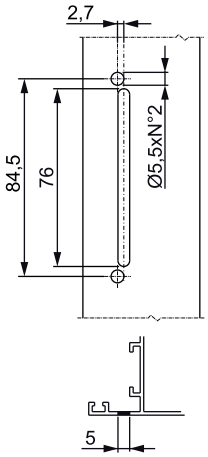
Overall dimensions art. 01078



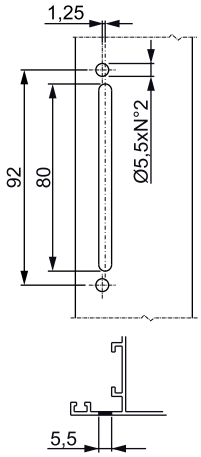
Overall dimensions art. 01079



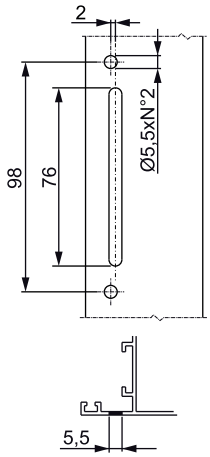
C/C distance machining 84.5 mm



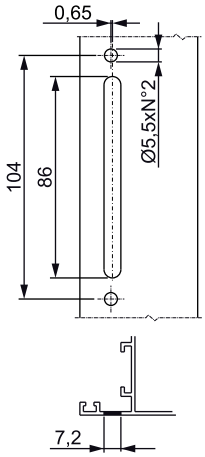
C/C distance machining 92 mm



C/C distance machining 98 mm



C/C distance machining 104 mm



CREMONES

Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01078	ASIA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Sash	104 - 98 - 92 - 84	two-way	closed	open	-	-	X		X		10
01079	ASIA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Tilt-and-turn window (microventilation)	104 - 98 - 92 - 84	one-way	closed	open	micro	bottom-hung windows	X		X		10
01111	ASIA REMOVABLE HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	-	-	-	-	-	-	-			X		1



ASIA PLUS OUTWARD 0-90° CREMONE

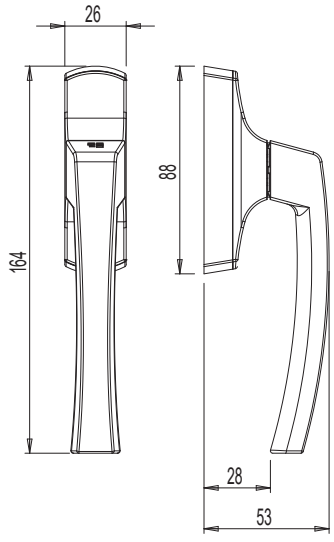
Functions
Reversible cremone for outward opening with space saving.

Online data sheet

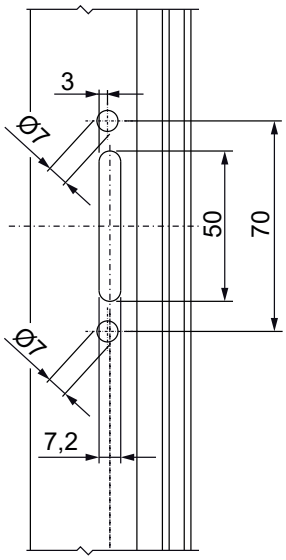
Technical Features
The cremone is specific to one-way closing systems with handle positioning at 0° and 90°.
The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Asia Outward 0-90 cremone has a fixing C/C distance of 70 mm.
The cremone is to be matched with the outward opening casement kits and the drive rod devices.

Materials
Handle in die-cast aluminium
Case, case cover and rotor in zamak
Spring and screw of stainless steel

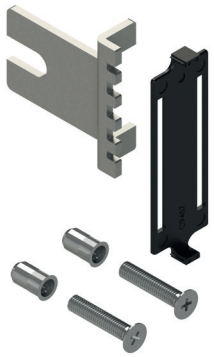
Dimensions art. 01401



C/C distance machining 70 mm



Item code	Description	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01401	ASIA PLUS 0-90° OUTWARD OPENING CREMONE	Outward Opening	70	One-way	Closed	Open			X		10



ASIA PLUS 0-90 OUTWARD OPENING KIT

Functions

Components that, added to the Asia Plus 0-90 Cremone, without internal components, enable converting it into the finished product.

Online data sheet

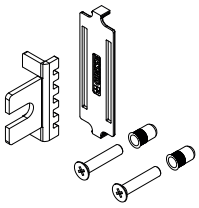
Technical features

Completion kit that allows you to connect the cremone to the rod for fastening the window.
Composed of the internal components and fixing components (screws and rivets) that must be suitably mounted by the window maker.

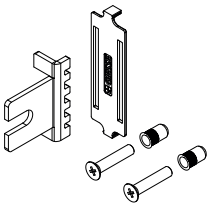
Materials

Black polyamide plate
Slider, screws and rivets of galvanized steel

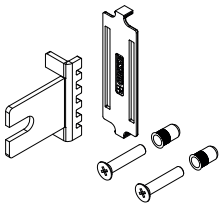
art. 02025



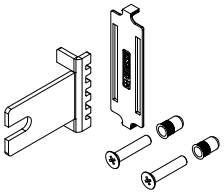
art. 02026



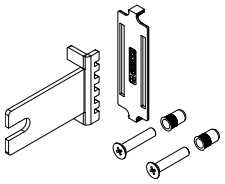
art. 02027



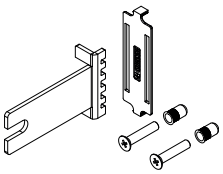
art. 02028



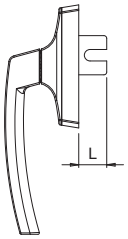
art. 02029



art. 02050



L= Slider length



Item code	Description	Slider length	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02025	OUTWARD OPENING KIT	20 mm	X				10
02026	OUTWARD OPENING KIT	28 mm	X				10
02027	OUTWARD OPENING KIT	35 mm	X				10
02028	OUTWARD OPENING KIT	45 mm	X				10
02029	OUTWARD OPENING KIT	55 mm	X				10
02050	OUTWARD OPENING KIT	65 mm	X				10



PULL DEVICES

Functions

Components for connecting the one-way cremones to the connection rods of the window.

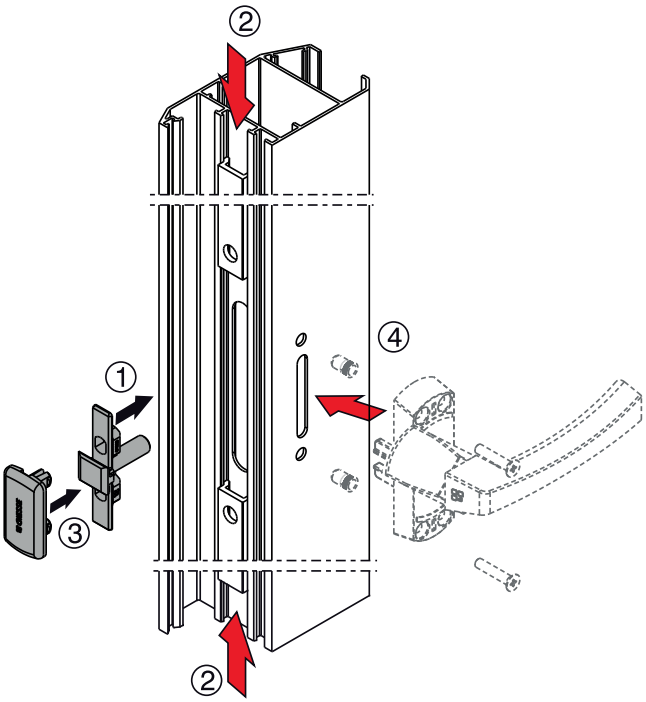
Online data sheet

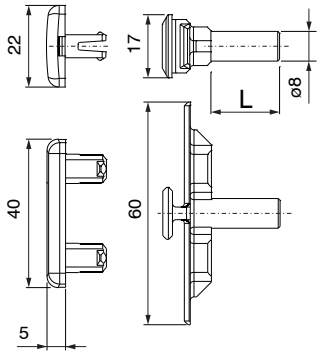
Technical features

It is used to connect the cremones with one-way movement (in pre-assembled or disassembled versions) to the closing rod of an aluminium window.
This generally concerns Shutter-type outward or Side Hung openings.
The Giesse patented rod pull device has a pin of diameter 8 mm of different lengths depending on the article.

Materials

Driving pin in zamak
Rod joining plug in black polyamide





Item code	Description	Type of Opening	L pin	Rod Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04091	ROD PULL DEVICE	External - Shutters	40	Euro Groove	X				20
04097001	ROD PULL DEVICE	External - Shutters	26	Erre	X				20
04098001	ROD PULL DEVICE	External - Shutters	9,5	Euro Groove	X				20
04099001	ROD PULL DEVICE	External - Shutters	18,5	Euro Groove	X				20
04104	ROD PULL DEVICE	External - Shutters	19	Euro Groove	X				20
04105	ROD PULL DEVICE	External - Shutters	28	Euro Groove	X				20



ESSEN CREMONE

Functions

Reversible cremone handle for operating the GIESSE Sash and Tilt-and-Turn Window mechanisms.

Online data sheet

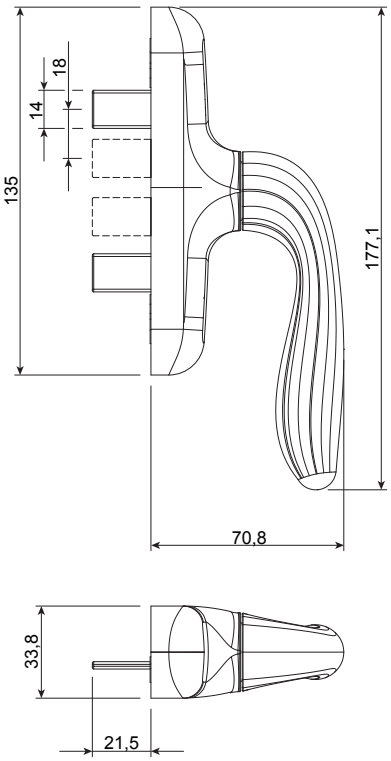
Technical Features

The use of high quality die-cast materials and the GIESSE painting system guarantee excellent mechanical performance, together with colour uniformity and good abrasion resistance.
The Essen cremone has a fixing C/C distance of 104 mm, but can be easily adapted for fixing with a C/C distance of 84 and 98 mm.

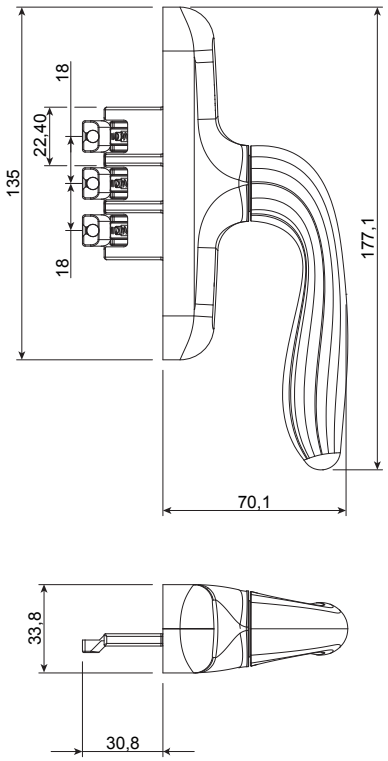
Materials

Handle in die-cast aluminium
Cremone case, gear racks in die-cast zamak
Internal sheath and Hostaform plate
Steel spring
Stainless steel screws and fixing plate

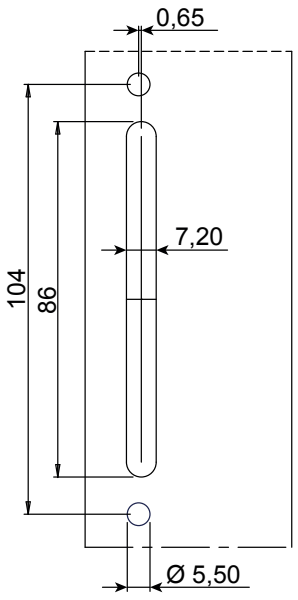
Overall dimensions of cremone for sash



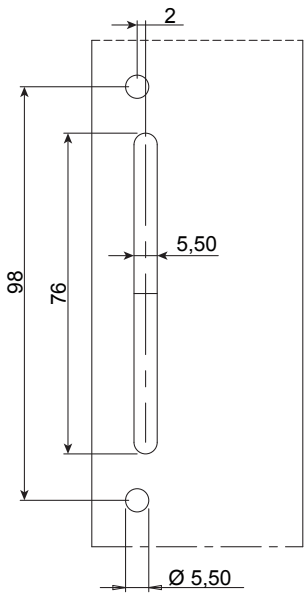
Overall dimensions of cremone for tilt-and-turn



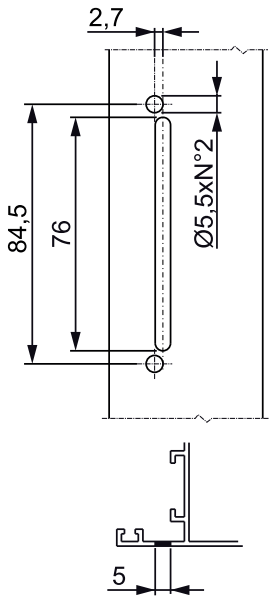
C/C distance machining 104 mm



C/C distance machining 98 mm



C/C distance machining 84.5 mm



Item code	Description	PROFILE CROSS - SECTION	Material	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 135°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06980	ESSEN CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		Sash	104 - 98 - 84	two-way	closed	open			X		X		20
06981	ESSEN CREMONE FOR TILT-AND-TURN	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017		Tilt-and-turn window	104 - 98 - 84	one-way	closed	open		bot-tom-hung windows	X		X		5



UNICA CREMONE

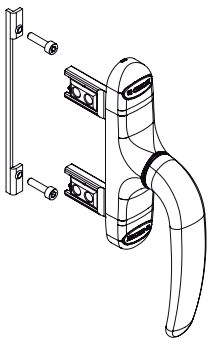
Functions
Reversible cremone handle for actioning Giesse mechanisms.

Online data sheet

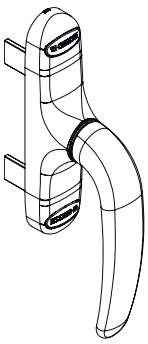
Technical Features
With the Unica Cremone it is possible to have the same stylish operation on casements for Inward Opening, Outward Opening and Tilt-and-Turn Window Shutter.
The Unica cremone, supplied right-handed, has a fixing C/C distance of 104 mm.
Available both with two-way and one-way mechanism, with handle positioning notches at 0°, 90° and 180° and in the APEX version.
The Unica Apex Cremone can be fitted on shutter profiles or with outward opening and does not require using the internal connection kit.
The Apex system, patented by Giesse, is easily and quickly mounted on the sash profile after doing the appropriate machining.
The possible range of the telescopic slider is from 16 mm to 35 mm.
The pins to be used to transfer the motion from the cremone sliders to the rod depend on the specific geometry of the profile and must be chosen from the available Giesse ones.

Materials
Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Zinc plated steel screw
Shim in Hostaform
Rotor, racks and sliders in die-cast zamak.

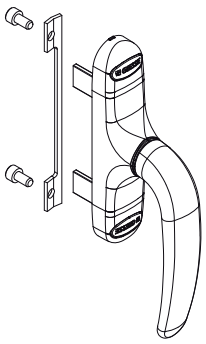
Art. 01154001



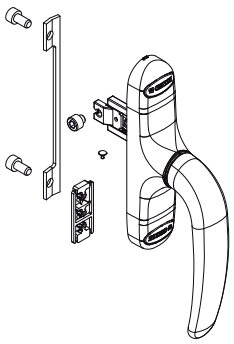
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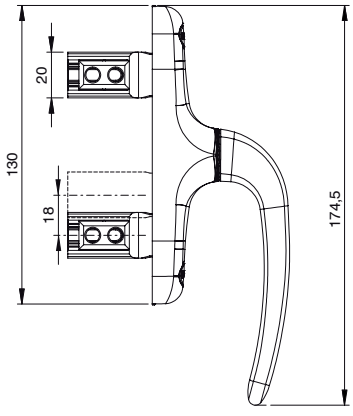
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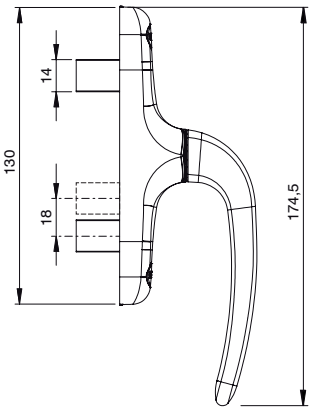
Art. 01159001



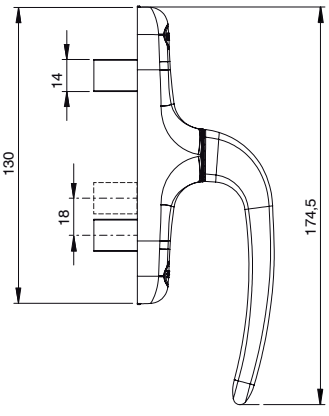
Art. 01154001



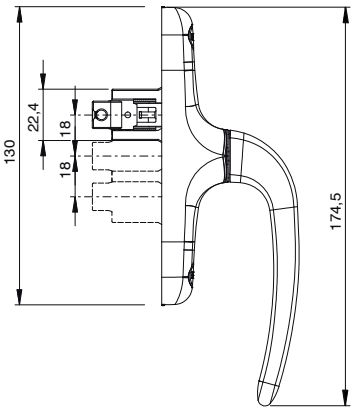
Art. 01155001



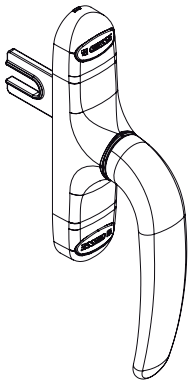
Art. 01157001



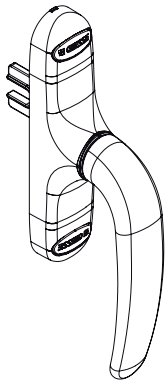
Art. 01159001



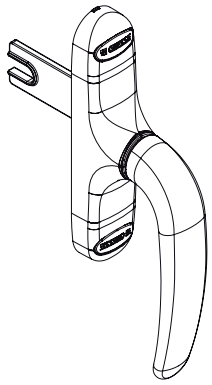
Art. 01164N



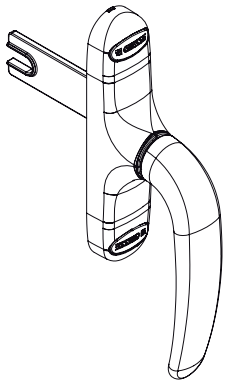
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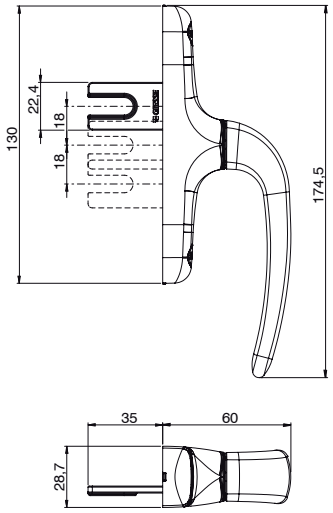
Art. 01166N



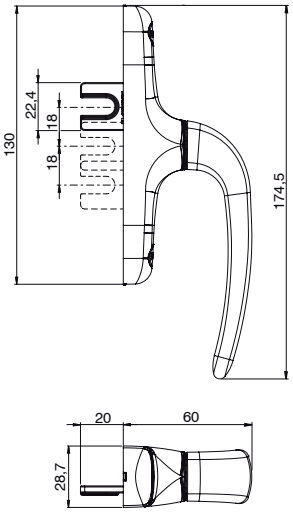
Art. 01173N



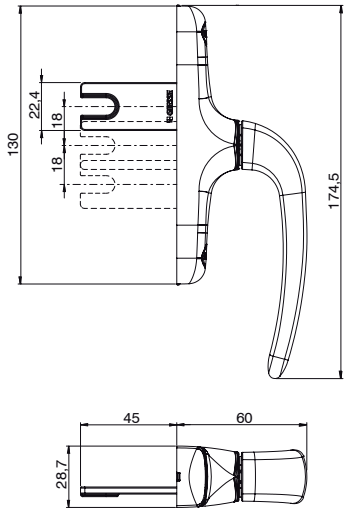
Art. 01164N



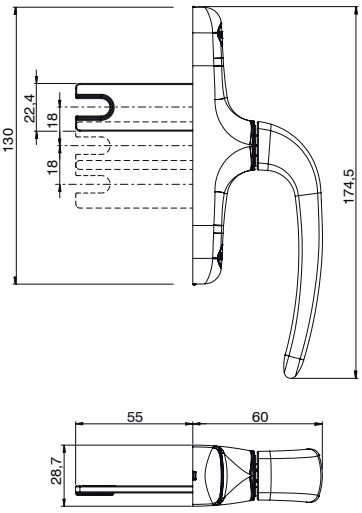
Art. 01165N



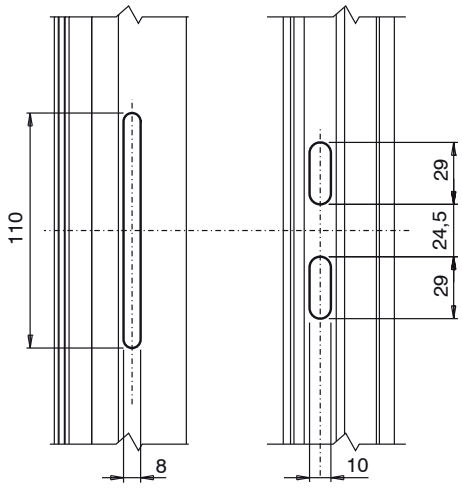
Art. 01166N



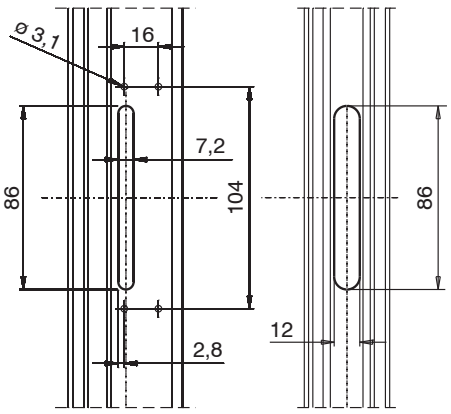
Art. 01173N



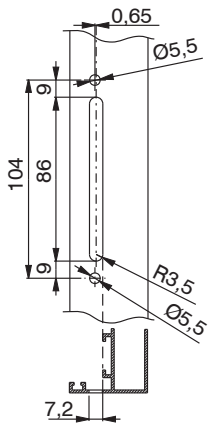
Cremone machining art. 01154001, 01155001



Cremone machining art. 01164N, 01165N, 01166N, 01173N



Cremone machining art. 01157001, 01159001



CREMONES

Item code	Description	PROFILE CROSS - SECTION	Type of Opening	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01154001	UNICA APEX CREMONE	-	External - Shutters	Two-way	closed	open		X		X	X	10
01155001	UNICA CREMONE	-	External - Shutters	Two-way	closed	open				X	X	10
01157001	UNICA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Internal	Two-way	closed	open				X	X	10
01159001	UNICA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	One-way	closed	open	bottom-hung windows			X	X	10
01164N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		20
01165N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		10
01166N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		10
01173N	UNICA ONE-WAY CREMONE	-	External - Shutters	One-way	closed	open		X		X		20



PULL DEVICES

Functions

Components for connecting the one-way cremones to the connection rods of the window.

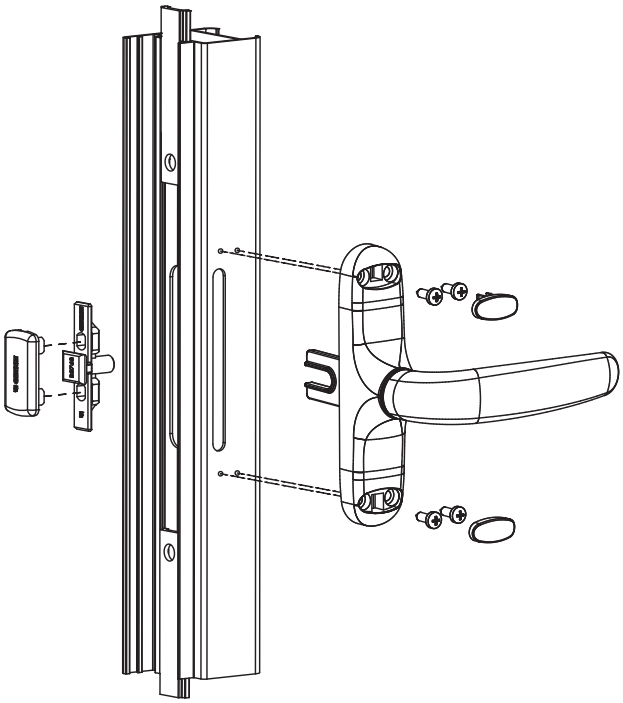
Online data sheet

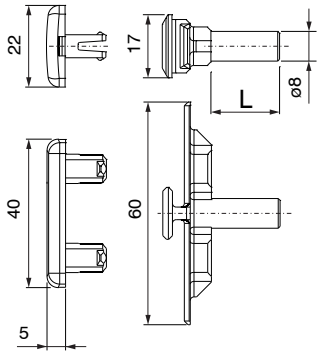
Technical features

It is used to connect the cremones with one-way movement (in pre-assembled or disassembled versions) to the closing rod of an aluminium window.
This generally concerns Shutter-type outward or Side Hung openings.
The Giesse patented rod pull device has a pin of diameter 8 mm of different lengths depending on the article.

Materials

Driving pin in zamak
Rod joining plug in black polyamide





Item code	Description	Type of Opening	L pin	Rod Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04091	ROD PULL DEVICE	External - Shutters	40	Euro Groove	X				20
04097001	ROD PULL DEVICE	External - Shutters	26	Erre	X				20
04098001	ROD PULL DEVICE	External - Shutters	9,5	Euro Groove	X				20
04099001	ROD PULL DEVICE	External - Shutters	18,5	Euro Groove	X				20
04104	ROD PULL DEVICE	External - Shutters	19	Euro Groove	X				20
04105	ROD PULL DEVICE	External - Shutters	28	Euro Groove	X				20

CONNECTION PINS

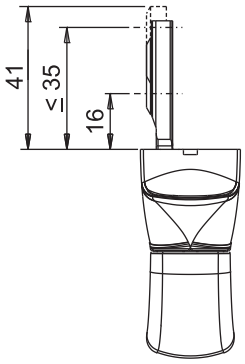


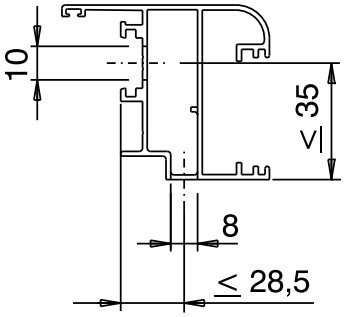
Functions
Zinc plated steel pin to move the mechanism from the cremone to the closing rods.

Online data sheet

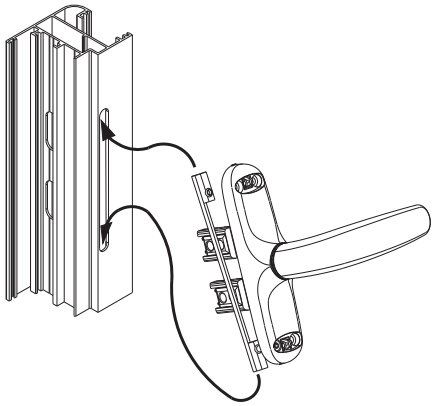
Technical features
To be inserted in the telescopic sliders of Unica Apex cremones, in the position shown in the fitting instructions.

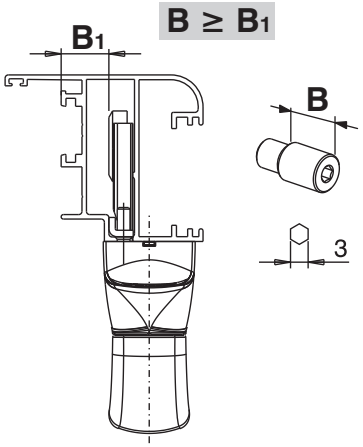
Materials
Zinc-nickel plated steel

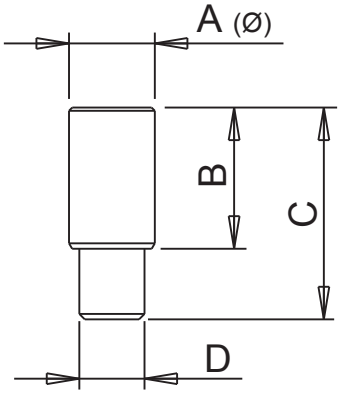


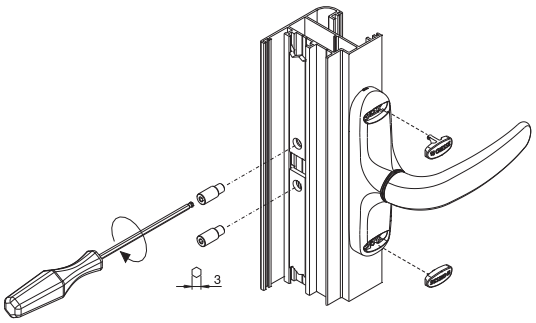


Example of application with Unica Apex cremone









Item code	Description	A (mm)	B (mm)	C (mm)	D	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02251K	CONNECTION PIN	7,9	10	16,5	M6	X				200
02252K	CONNECTION PIN	7,9	13	19,5	M6	X				200
02253K	CONNECTION PIN	7,9	16	22,5	M6	X				200
02254K	CONNECTION PIN	7,9	24	30,5	M6	X				200
02255K	CONNECTION PIN	7,9	20	26,5	M6	X				200



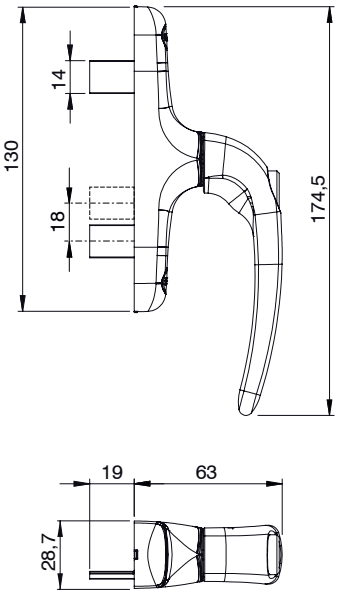
UNICA KEY CREMONE

Functions
Reversible cremone handle with key for operating the Giesse mechanisms.

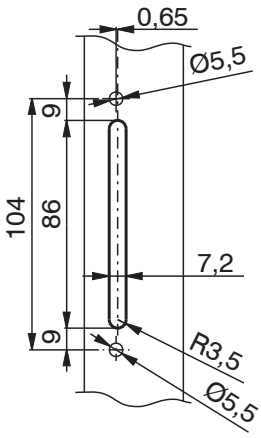
Online data sheet

Technical Features
The Unica Key cremone has a fixing C/C distance of 104 mm.
Supplied right-hand pre-assembled it is easily converted into left-hand.
The pull handle is lockable with a key in both the closed and open position.

Materials
Handle in painted die-cast aluminium.
Case in paint-finished die-cast zamak.
Spring in harmonic steel.
Stainless steel screws and fixing plate.
Rotor, racks and sliders in die-cast zamak.



C/C distance machining 104 mm



Item code	Description	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01163N	UNICA KEY CREMONE	Outward Opening Casement - Shutters	104	Two-way	closed	open	X		X		10



UNICA AWAY CREMONE

Functions

Reversible cremone handle, with removable pull handle supplied separately, for operating the Giesse mechanisms.
Ideal for hospitals, schools and all other locations in which operation of the casements is not to be left to the discretion of the end user.

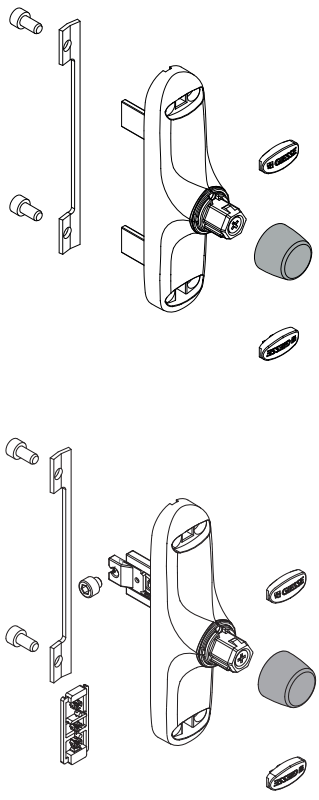
Online data sheet

Technical Features

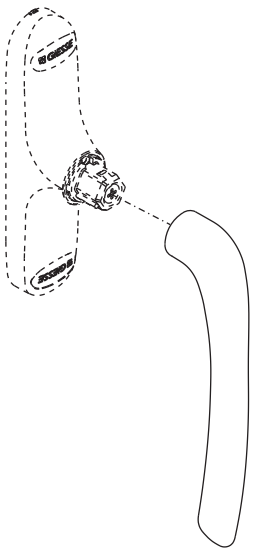
The Unica Away cremone is available both right and left handed and has a fixing C/C distance of 104 mm.
The Unica Away Cremone does not have a removable pull handle which is supplied separately.
The removable handle can be used in conjunction with all Unica Away Cremones.
It is fixed on the snap-mounting cremone by pressing on its hexagon and it stays attached there during operation.
The part of the pull handle which mounts to the cremone is designed to engage in such a way that it is always in phase with the mechanism.
The design and elongated shape of the handle (172 mm) make it easy to handle in any application.

Materials

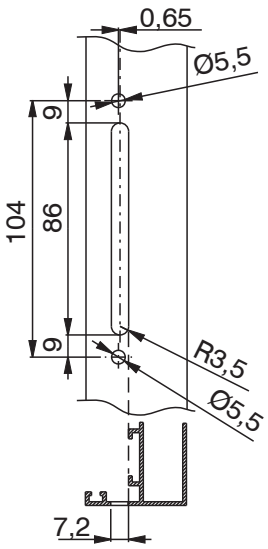
Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Stainless steel screws and fixing plate.
Rotor, racks and sliders in die-cast zamak.



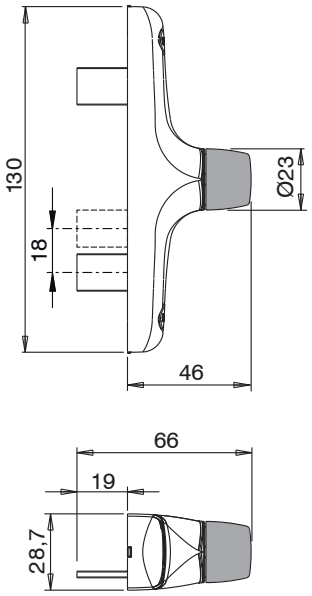
Handle application



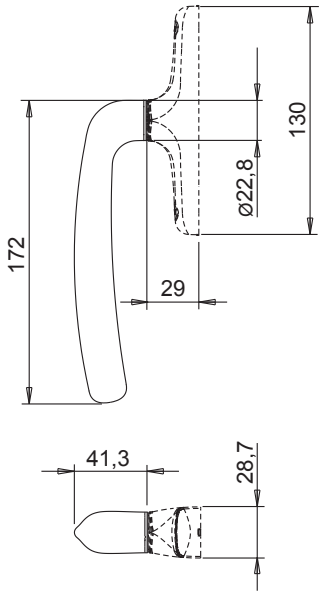
C/C distance machining 104 mm



Dimensions art. 01138



Dimensions art. 01129



Item code	Description	PROFILE CROSS - SECTION	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01129	PULL HANDLE FOR UNICA AWAY	-	-	-	-	-	-	-			X		10
01138	UNICA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Inward opening	104	two-way	closed	open				X		10



UNICA CW 2 CREMONE

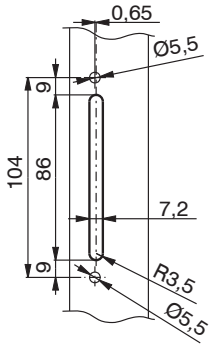
Functions
Reversible cremone handle for actioning Giesse curtain wall mechanisms.

Online data sheet

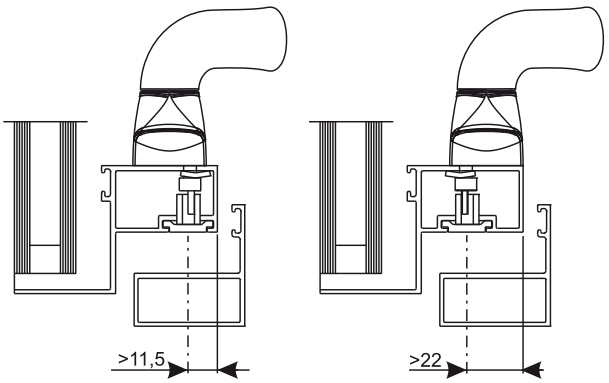
Technical Features
The Unica CW2 cremone is available both right and left handed and has a fixing C/C distance of 104 mm.
Available with two-way mechanism, with pull handle positioning notch at 0° and 90°.
The special form of the pull handle makes it easy to insert the hand, thus allowing the handling of large-size sashes.

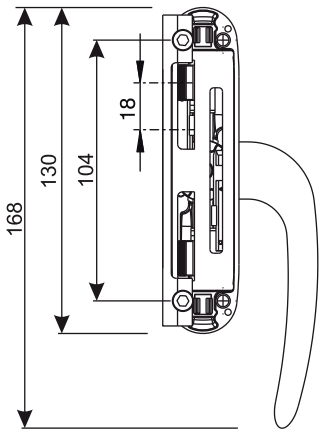
Materials
Handle in painted die-cast aluminium
Case in paint-finished die-cast zamak
Steel spring
Stainless steel screws and fixing plate
Rotor, racks and sliders in die-cast zamak

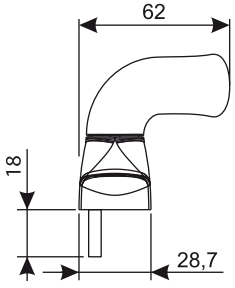
C/C distance machining 104 mm



Assembly scheme







Item code	Description	Hand	Type	C/C distances	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
011701	UNICA OFFSET HANDLE CW2 CREMONE	rx	Curtain wall	104	two-way	closed	open	X		X		5
011702	UNICA OFFSET HANDLE CW2 CREMONE	lx	Curtain wall	104	two-way	closed	open	X		X		5



NOVA CREMONE

Functions

Reversible cremone handle, ideal for outward opening systems and shutters, with handle rotation to 90° and opening/closing positioning notch.

Online data sheet

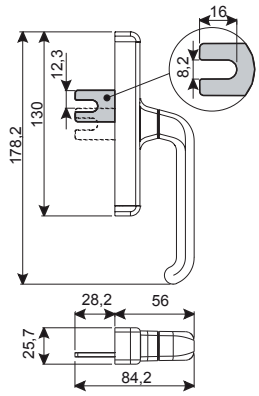
Technical Features

Available in both one-way and two-way versions.
For both versions there is the version with pull handle locking to make the window more secure: on the back of the pull handle there is a button that the end user needs to press to be able to turn the pull handle.
Supplied right-hand pre-assembled it has a stroke of 12 mm for the sliders.
The NOVA cremone has machining with a C/C distance of 104 mm.

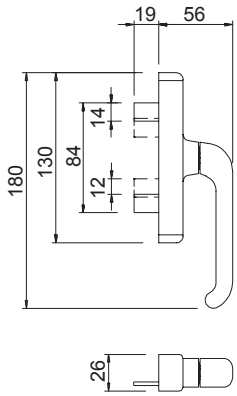
Materials

Handle in die-cast aluminium.
Die-cast Zamak case, gears, racks and sliding parts.
Extruded aluminium body cover.
Fibreglass reinforced polyamide plate.

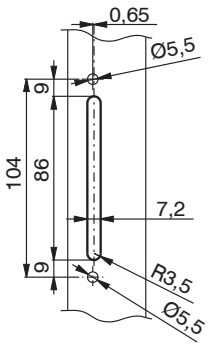
One-way version



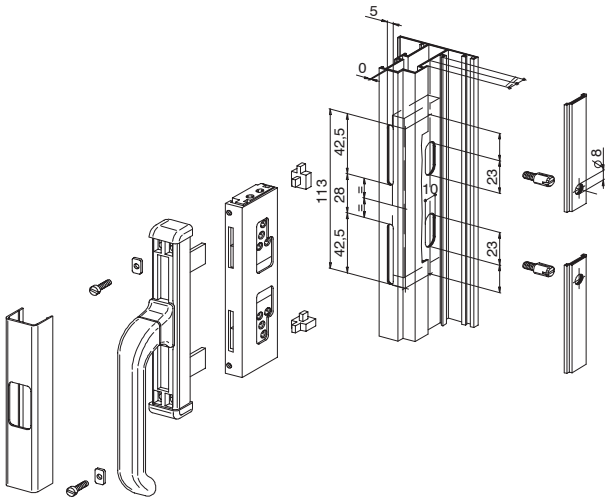
Two-way version



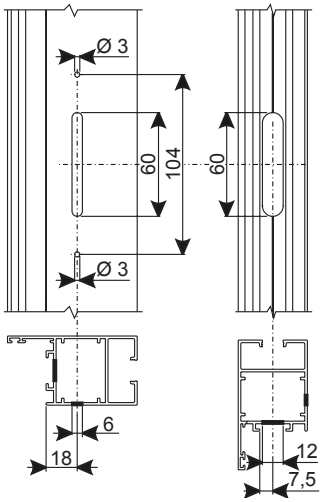
C/C distance machining 104 mm one-way version



C/C distance machining 108 mm two-way version



Two-way version machining



CREMONES

Item code	Description	Type	Functions	C/C distances	Operation	Slider length	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01004	NOVA CREMONE	Outward opening		Figure 1	Two-way	19 mm	Closed	open	X		X		20
01006	NOVA CREMONE - with block	Outward opening	pull handle lock	Figure 1	Two-way	19 mm	Closed	open	X		X		20
01009	NOVA CREMONE with ext. slid.	Outward opening		Figure 1	Two-way	25 mm	Closed	open	X		X		20
01114	NOVA CREMONE SINGLE-SLIDER	Outward opening		Figure 2	One-way	16 mm	Closed	open	X		X		20
01116	NOVA CREMONE W/ SINGLE-SLIDER BLOCK	Outward opening	pull handle lock	Figure 2	One-way	16 mm	Closed	open	X		X		20



SUPERNOVA CREMONE

Functions

Reversible cremone handle, for inward-opening systems with handle rotation to 90° and opening/closing positioning notch.

Online data sheet

Technical Features

As for the EURO Cremones, whose stylish design it incorporates, the use of quality die-cast materials together with the high reliability of the GIESSE painting system gives the SUPERNOVA Cremone high surface quality and strong resistance to external agents.
The SUPERNOVA cremone is supplied right-handed, with a fixing C/C distance of mm. 130 and revives the concept of unification also using the standard EURO machining of 104 mm.

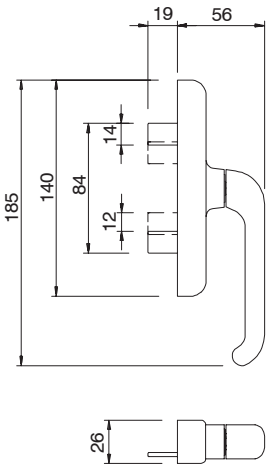
Materials

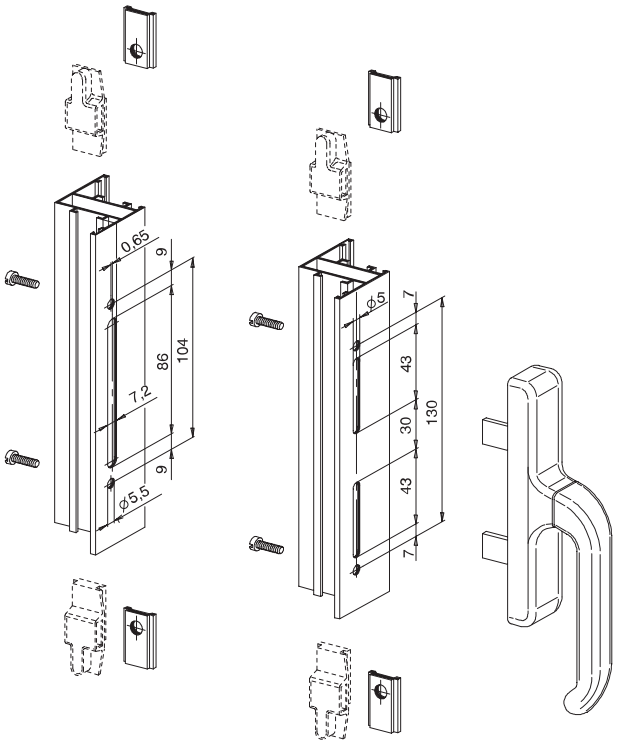
Handle in die-cast aluminium.
Die-cast Zamak case, gears, racks and sliding parts.
Stainless steel screws

Parts

2 CH screws M4x10

C/C distance machining 104 mm and 130 mm.





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01007	SUPERNOVA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	X		X		20



COUPE' CREMONE

Functions

Reversible cremone handle, with lowered handle and rotation of 120°, designed for outward opening and shutters that, because of the interior dimensions, require a mechanism with a particularly compact size.

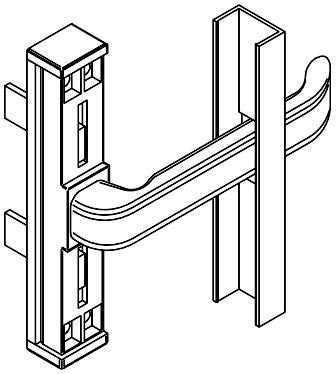
Online data sheet

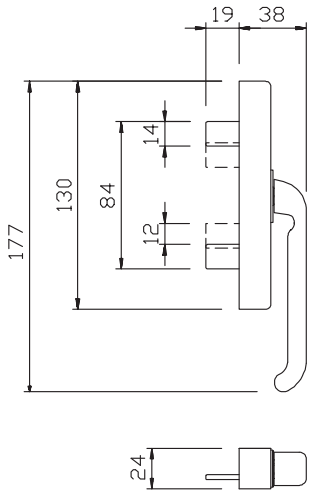
Technical Features

The COUPE' Cremone, supplied right-hand, revives the concept of unification by using the standard EURO 104 mm machining and the 108 mm machining. It is only 38 mm high, with a line that allows you to match it with the EURO, NOVA and SUPERNOVA Cremones.

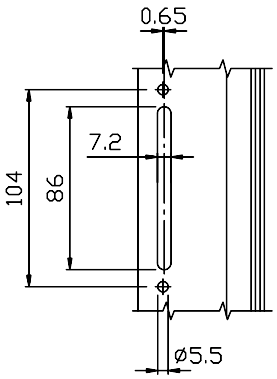
Materials

Handle in die-cast aluminium
Gears, racks and sliders in die-cast zamak.
Case and plate in reinforced polyamide.
Extruded aluminium body cover.

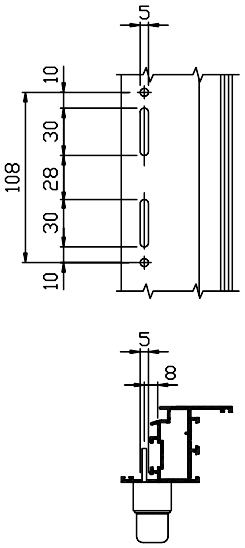




C/C distance machining 104 mm



C/C distance machining 108 mm



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01056	COUPE' CREMONE		X		X		20



SHIMS AND STEPS

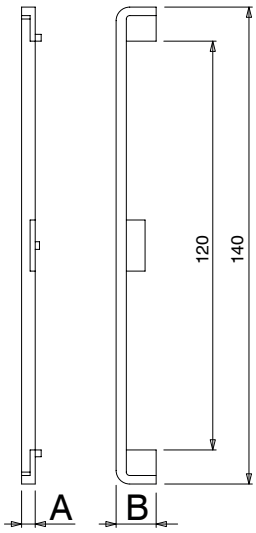
Functions
Shims and steps in polyamide for mounting Giesse cremones on rounded or stepped profiles

Online data sheet

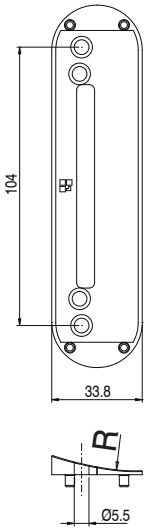
Technical Features
The shims and steps ensure perfect functionality and hold of the cremones on certain corner-rounded profiles or profiles with a step.

Materials
Polyamide

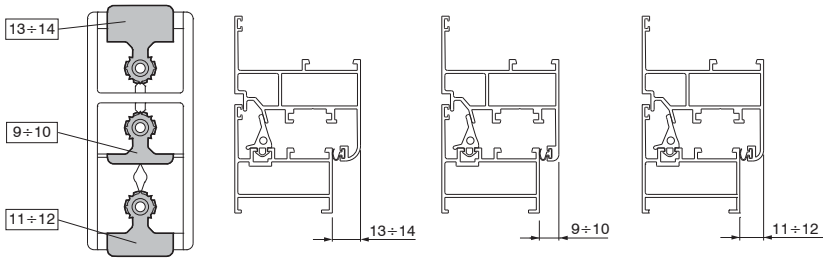
D1 - Step for Cremone



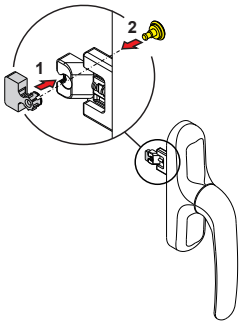
D2 - Shim for cremone
(R = radius)



D3 - Shims for incorrect movement safety device

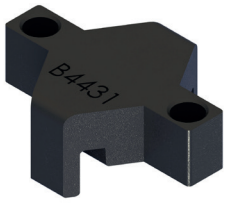


D3 - Mounting shims for incorrect movement safety device



Item code	Description	A (mm)	B (mm)	Radius (mm)	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01123	INCORRECT MOVEMENT SAFETY DEVICE SHIM KIT	-	-	-	D3	X				50
01131	SHIM FOR CREMONE	-	-	135	D2	X				100
01132	SHIM FOR CREMONE	-	-	65	D2	X				100
01137	SHIM FOR CREMONE	-	-	120	D2	X				100

STOP BLOCK

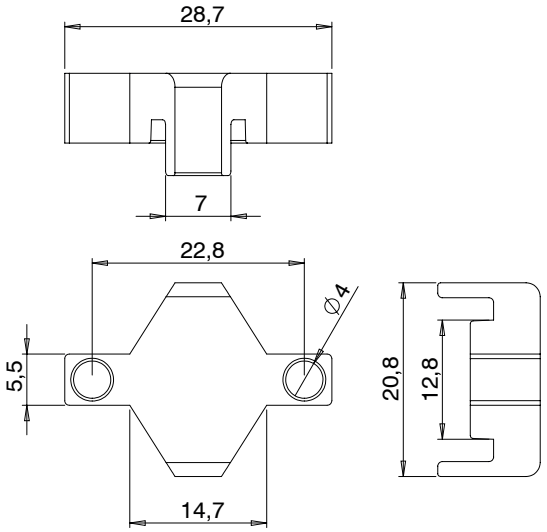


Functions
Component to be inserted in the mechanism of a one-way cremone to lock its rotation at 90°.

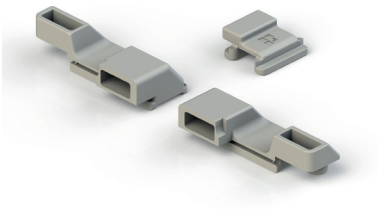
Online data sheet

Technical Features
This device must be inserted within the mechanism of one-way cremones if you want to block the stroke of the sliders at 90°.

Materials
Polyamide



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02235	90° CREMONE STOP BLOCK	-	X				100



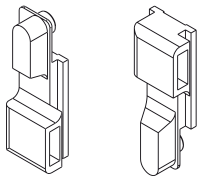
DRIVE ROD COMPONENTS

Functions

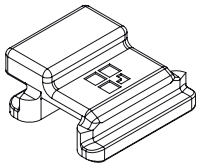
Polyamide reversible components for the connection between the cremones and the rods of the profile of a central gasket aluminium sash window.

Online data sheet

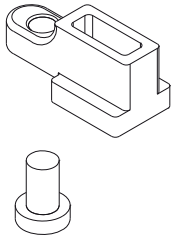
drawing 1



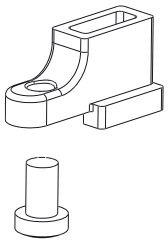
drawing 2



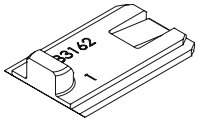
drawing 3



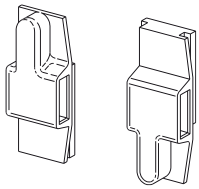
drawing 4



drawing 5



drawing 6



Item code	Description	PROFILE CROSS - SECTION	Material	Colour	Drawing	Ø rod	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02119	CONNECTING BLOCKS	C003	Polyamide	Black	drawing 1	6 mm	X				100
02236	CONNECTING BLOCKS	(FOR CURTAIN WALL)	Zamak	Grey	drawing 4	6 ÷ 8 mm	X				50
02262	CONNECTING BLOCKS	(FOR CURTAIN WALL)	Zamak	Grey	drawing 3	6 ÷ 8 mm	X				50
02307	CONNECTING BLOCKS	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017	Polyamide	Black	drawing 6	8 mm	X				100
02385	CONNECTING BLOCKS	C007	Polyamide	Black	drawing 1	8 mm	X				100
02385K	CONNECTING BLOCKS	C007	Polyamide	Grey	drawing 1	8 mm	X				100
02386	CONNECTING BLOCKS	C008	Polyamide	Black	drawing 1	8 mm	X				100
02387	CONNECTING BLOCKS	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Polyamide	Black	drawing 1	8 mm	X	X			100
02387K	CONNECTING BLOCKS	C001-C002-C003-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Polyamide	Grey	drawing 1	8 mm	X				100

CREMONES

Item code	Description	PROFILE CROSS - SECTION	Material	Colour	Drawing	Ø rod	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03474	DRIVE ROD COMPONENT	-	Zamak	Black	drawing 2	-	X				20
03474K	DRIVE ROD COMPONENT	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Zamak	Grey	drawing 2	-	X				20
03475K	DRIVE ROD COMPONENT	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	Zamak	Grey	drawing 5	8 mm	X				100



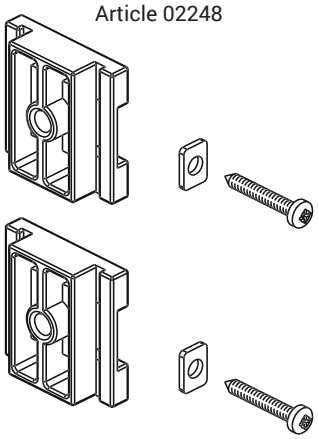
CONNECTING KIT

Functions

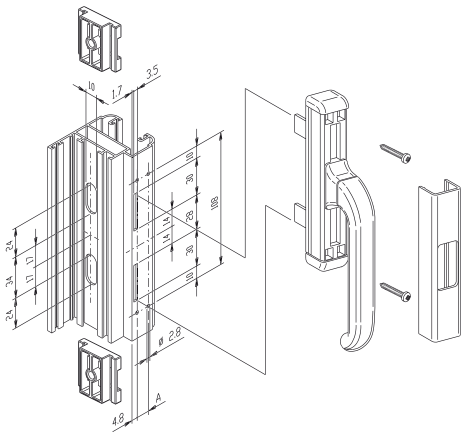
Components for connecting GIESSE Cremone with the rods of an aluminium window profile.

Online data sheet

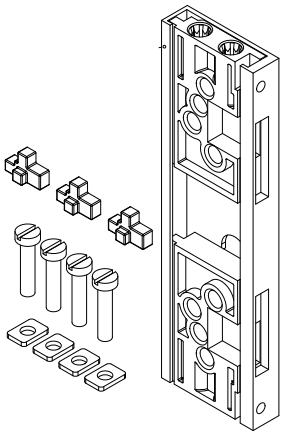
Article 02248



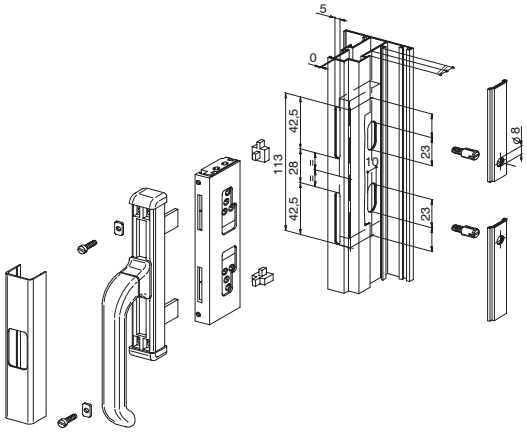
Machining on profile



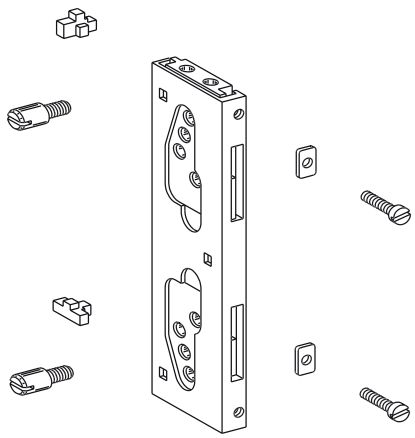
Article 02250



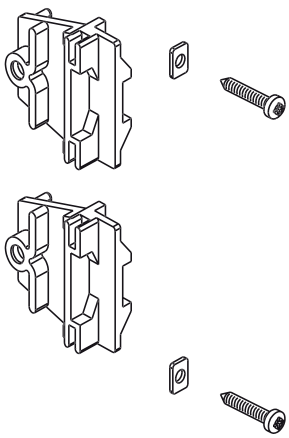
Machining on profile



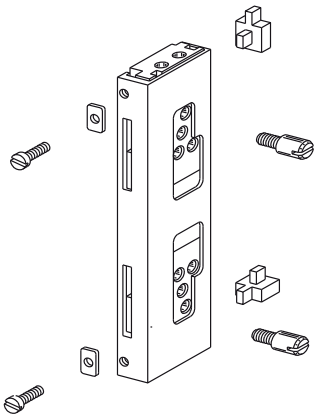
Article 02260



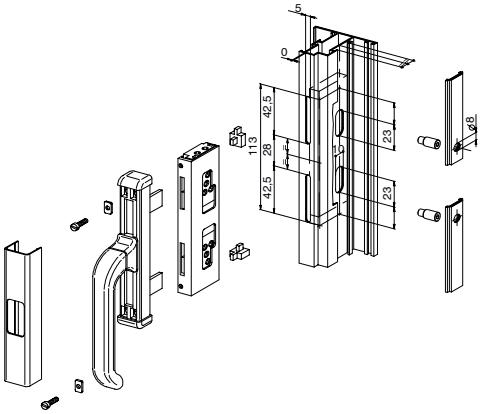
Article 02261



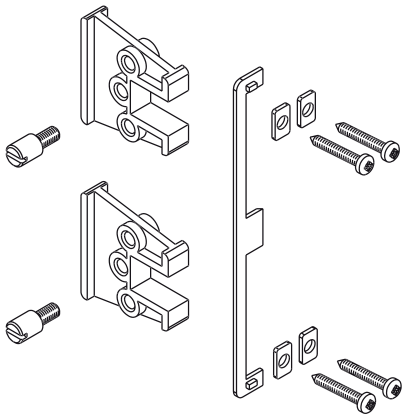
Article 02296



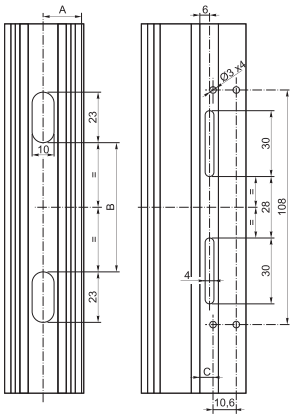
Machining on profile



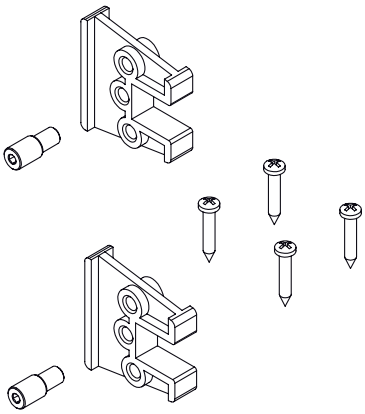
Article 02377



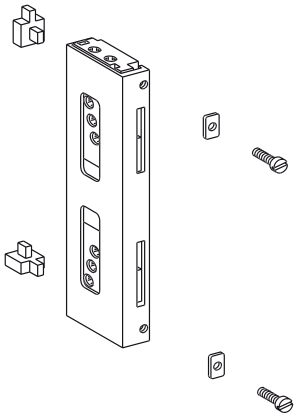
Machining on profile



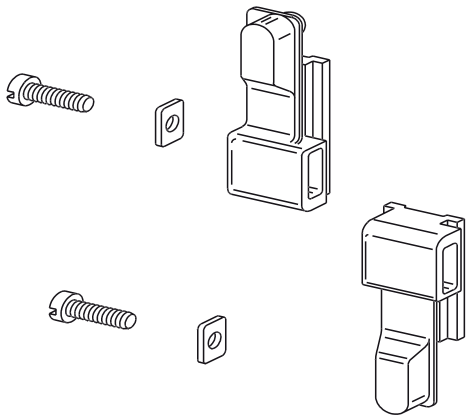
Article 02353



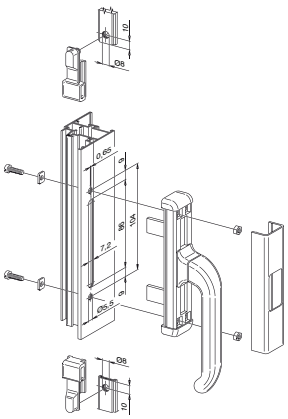
Article 02379



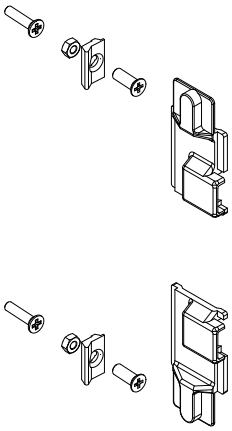
Article 02382N



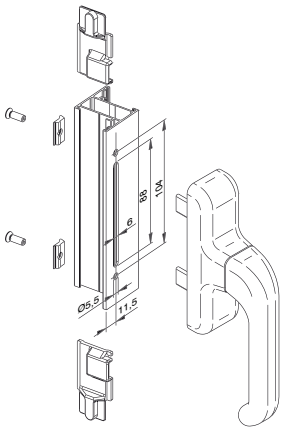
Machining on profile



Article 02383



Machining on profile



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02248	NOVA CONNECTION KIT		X				100
02250	NOVA CONNECTION KIT		X				20
02260	NOVA CONNECTION KIT		X				20
02261	NOVA CONNECTION KIT		X				20
02296	NOVA CONNECTION KIT		X				20
02353	NOVA CONNECTION KIT		X				20
02377	NOVA CONNECTION KIT	ALLCO5 - R40	X				20
02379	NOVA CONNECTION KIT		X				20
02382N	NOVA CONNECTION KIT		X				20
02383	EURO CONNECTION KIT		X				20

CONNECTION PINS



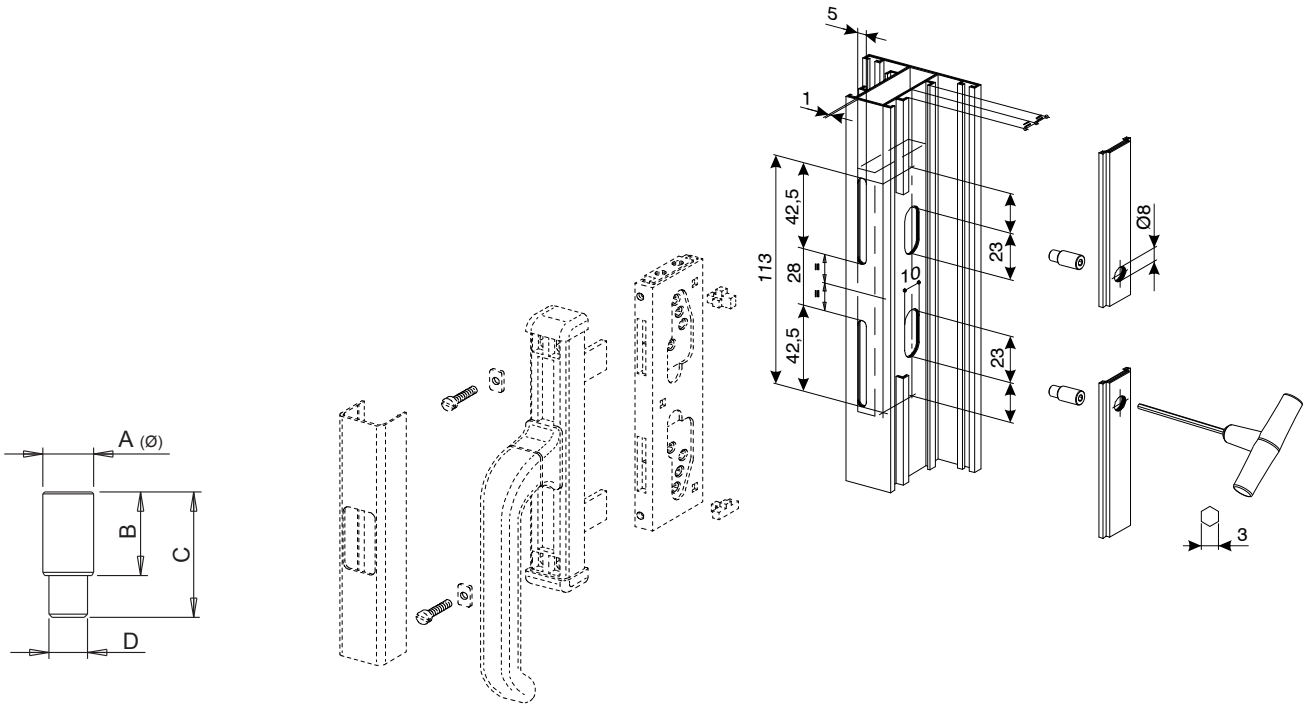
Functions
Zinc plated steel pin to move the mechanism from the cremone to the closing rods.

Online data sheet

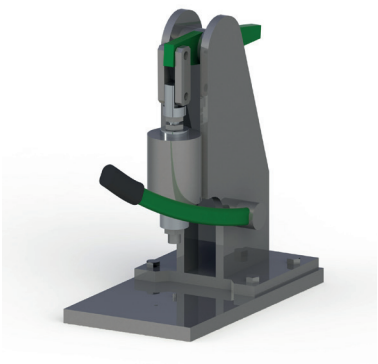
Technical Features
To be inserted in the guide blocks of Article 02250 in the position shown on the instruction sheet.

Materials
Zinc-nickel plated steel

Example of application with Nova connection kit



Item code	Description	A (mm)	B (mm)	C (mm)	D	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02251K	CONNECTION PIN	7,9	10	16,5	M6	X				200
02252K	CONNECTION PIN	7,9	13	19,5	M6	X				200
02253K	CONNECTION PIN	7,9	16	22,5	M6	X				200
02254K	CONNECTION PIN	7,9	24	30,5	M6	X				200
02255K	CONNECTION PIN	7,9	20	26,5	M6	X				200



BLANK CREMONE ASSEMBLY

Functions

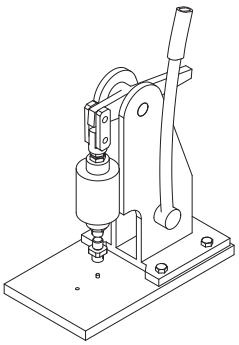
Specific equipment for assembling the case and handle of the GIESSE Cremone purchased blank.

Online data sheet

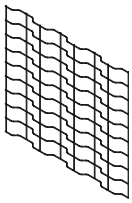
Technical Features

To make it possible to assemble cremones after final painting, GIESSE has developed specific equipment: the manual lever press and pallets to support the cremone pull handles.
Using an appropriate pallet, for Prima, Asia, Euro or Unica, accomplishes the delicate phase of driving in the rotor without damaging the case and handle.
The press punch can be adjusted to have an appropriate pressure on the rotor depending on the cremone to be assembled.

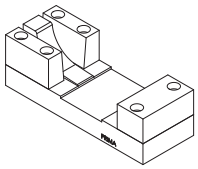
Manual lever press



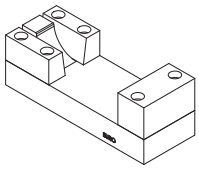
Support cover for painting



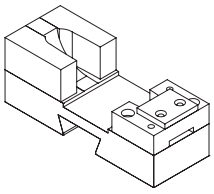
Pallet for PRIMA cremone



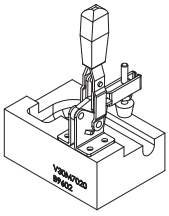
Pallet for EURO cremone



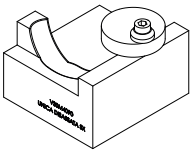
Pallet for UNICA cremone



Pallet for right OFFSET EURO cremone



UNICA CW2 lh cremone pallet



Item code	Description	For articles	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04085	SUPPORT COVER FOR PAINTING	-	X				10
07000	MANUAL LEVER PRESS	07002 - 07003 - 07005	X				1
07002	PRIMA CREMONE PALLET	01024U - 01038 - 01039	X				1
07003	EURO CREMONE PALLET	01090K - 01000U - 01037 - 01094	X				1
07005	UNICA CREMONE PALLET	01150N - 01157N - 01159N - 01155N - 01164N - 01165N - 01166N - 01173N	X				1
07006	UNICA CW2 LH CREMONE PALLET	011702	X				1
07008	ASIA CREMONE PALLET	01064 - 01076 - 01083 - 01084	X				1
07009	PRIMA KEY CREMONE PALLET	01191 - 01192 - 01193 - 01194 - 01195	X				1
07012	PALLET FOR ASIA OUTWARD CREMONE	01077 - 01063	X				1
07025	Pallet for OFFSET EURO cremone	050061 - 050071 - 050081	X				1



ASIA WINDOW HANDLE

Functions

Reversible window handle for operating the GIESSE Sash and Tilt-and-Turn Window closing systems via the M90 and M180 mechanisms.

Online data sheet

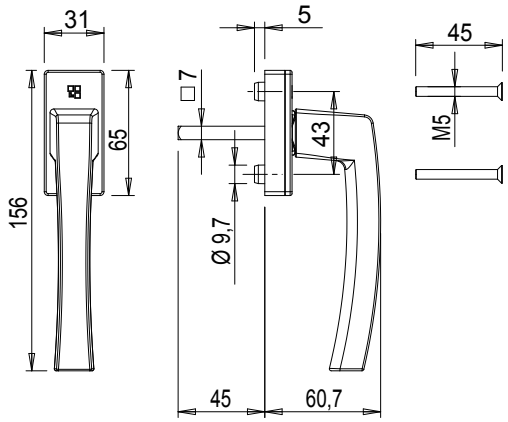
Technical Features

The handle is made of die-cast aluminium and blends in seamlessly with the Asia cremone line.
The handle is equipped with a positioner to stop rotation at 90° and 180° and has a square pin, 7 mm cross section, for the transmission of the movement.

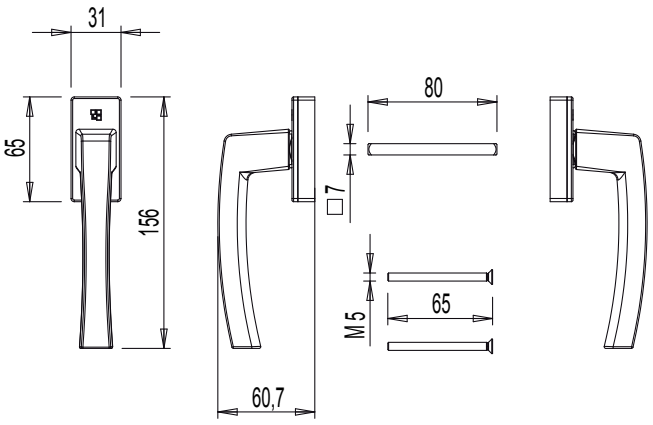
Materials

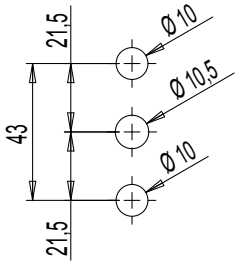
Handle in die-cast aluminium
Rotor in zinc plated zamak
Aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

02415



02416





Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02415	ASIA WINDOW HANDLE	Single	45	Yes	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bot-tom-hung windows	X		X		10
02416	ASIA WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X		5



PRIMA PLUS WINDOW HANDLE

Functions

Reversible window handle for operating the GIESSE Sash and Tilt-and-Turn Window closing systems via the M90 and M180 mechanisms.

Online data sheet

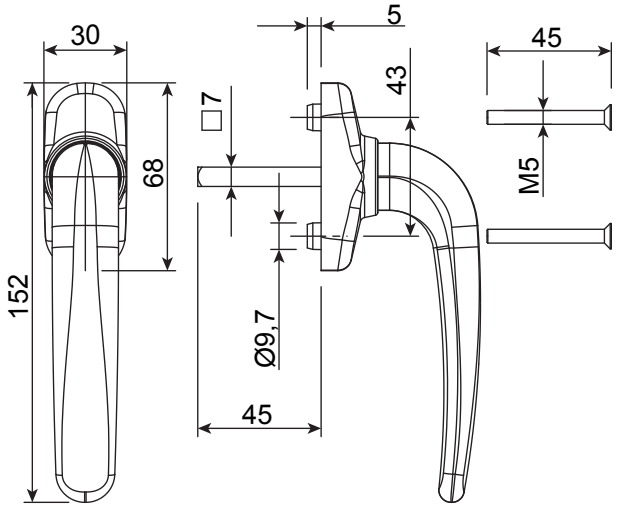
Technical Features

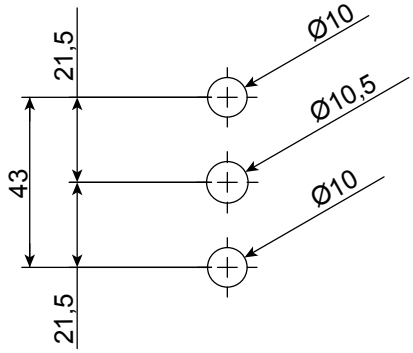
The handle is made of die-cast aluminium and blends in seamlessly with the Prima cremone line.
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, with a cross section of 7 mm and a length of 45 mm.
Available in both single and double versions.

Materials

Handle in die-cast aluminium
Rotor in zinc plated zamak
Die-cast aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

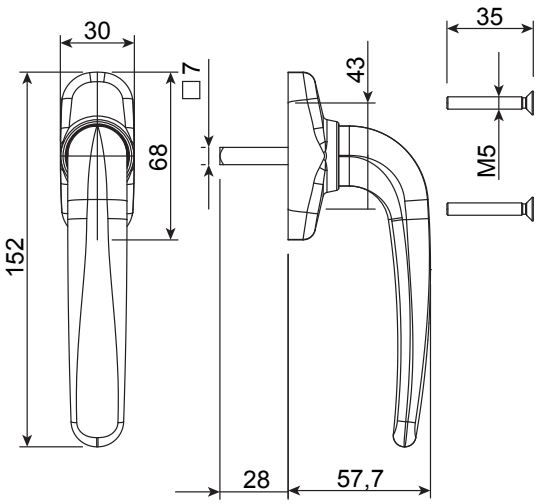
Art. 02476



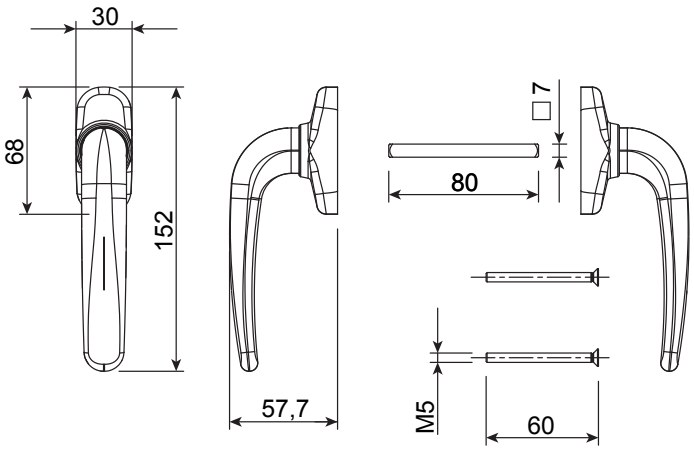


WINDOW HANDLES

Art. 02762



Art. 02763



Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02476	PRIMA PLUS WINDOW HANDLE	Single	45	Yes	C001	closed	open	bot-tom-hung windows	X		X	X	10
02762	PRIMA PLUS WINDOW HANDLE	Single	27	No	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	closed	open	bot-tom-hung windows	X		X	X	5
02763	PRIMA PLUS WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X	X	5



PRIMA KEY WINDOW HANDLE

Functions

PRIMA window handle with suitable key for operating the GIESSE M90 and M180 mechanisms. The window handle has a security mechanism that prevents turning the handle from the outside.

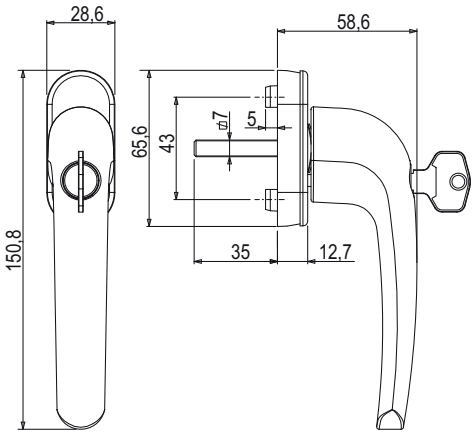
Online data sheet

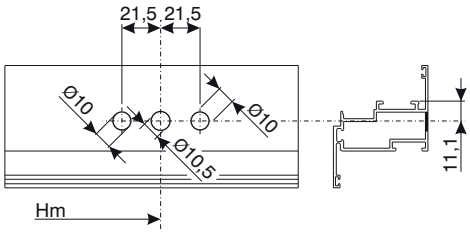
Technical Features

The handle is made of die-cast aluminium and blends in seamlessly with the PRIMA cremone line.
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, with a cross section of 7 mm and a length of 45 mm.
Prima Key: By turning the key through 180° it is possible to lock the handle (1).
Prima Key Logica: By turning the key through 180° it is possible to lock the handle (1). By unlocking the key you can open the bottom-hung window with the handle at 90° or close the sash with the handle at 0° (2). By turning the key through 45° and the handle 180° you can open the sash. On returning the handle to 90° the window handle returns to safety, preventing 180° rotation and therefore full opening of the sash (3).

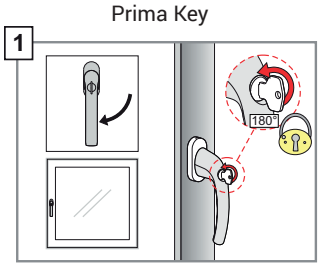
Materials

Handle in aluminium
Rotor in zinc plated zamak
Aluminium cover
Sub-rosette in plastic resin
Square spindle and screws in zinc plated steel

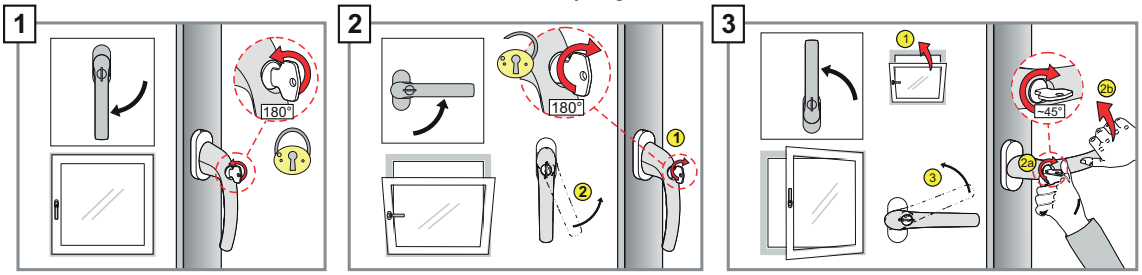




Prima Key



Prima Key Logica



Item code	Description	PROFILE CROSS - SECTION	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02485	PRIMA KEY WINDOW HANDLE	C001-C007-C015-P002-P003-P004-P005-P006-P007-P008-P009-P010	-			X	X	5
02486	PRIMA KEY WINDOW HANDLE	C001-C002-C007-C015-C017-P002-P003-P004-P005-P006-P007-P008-P009-P010	Logica			X	X	5



KORA WINDOW HANDLE

Functions

Reversible window handle for operating GIESSE Side-hung, Tilt-and-Turn, and Tilt-and-Turn with Micro-ventilation fastening mechanisms, via M90 and M180 mechanisms.

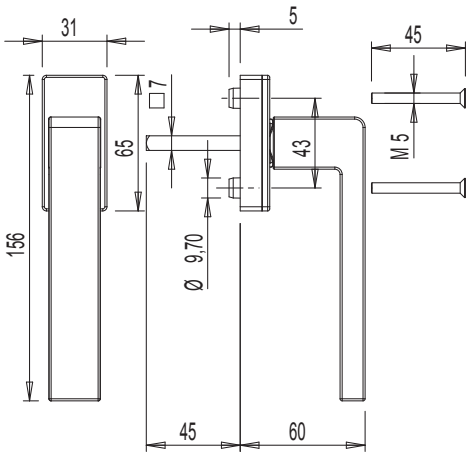
Online data sheet

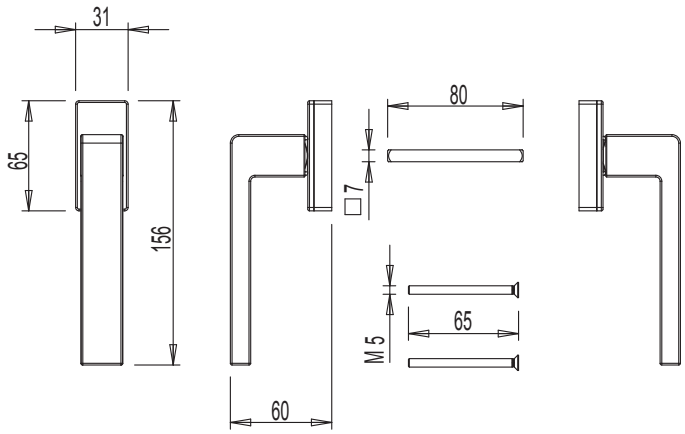
Technical Features

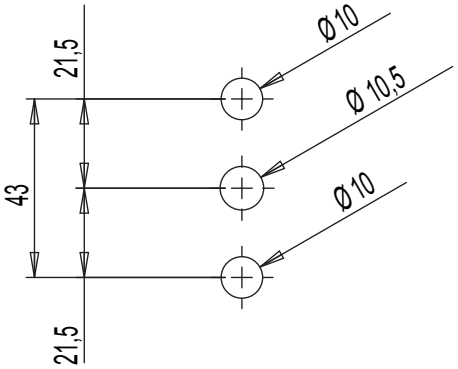
The handle is equipped with a positioner to stop rotation at 90° and 180° and has a square pin, 7 mm cross section and 40 mm length, for transmission of the movement.

Materials

Zamak handle
Square pin, screws and grub screw in zinc plated steel







Item code	Description	Version	Square spindle L (mm)	Case anti-rotation turrets	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00997	KORA WINDOW HANDLE	Single	45	Yes	C001-C002-C007-C017-P002-P006-P007	closed	open	bottom-hung windows	X		X		10
00998	KORA WINDOW HANDLE	Double	26-46	No	-	closed	open	-	X		X		5



KORA OFFSET WINDOW HANDLE

Functions

Right-hand or left-hand window handle for the use of GIESSE Sash, Tilt-and-Turn, Sliding and Top-Hung internal movement fastening mechanisms.

Online data sheet

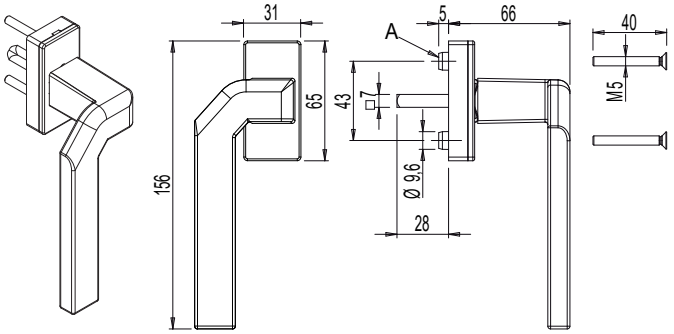
Technical Features

The offset Kora window handles are sold in right-hand or left-hand versions and are used in conjunction with Giesse internal mechanisms.
They are equipped with a positioner for stopping the rotation at 90° and 180° and configure the transmission of the movement of a non-removable 7 mm square pin.
The length of the pin can be varied on request. The c/c fixing distance for the window handles is 43 mm (standard).
The case for the offset Kora window handles with a large plate features 2 additional holes in case you want to use 2 self-threading screws (not supplied) to strengthen the window handle fixing on the sash profile.

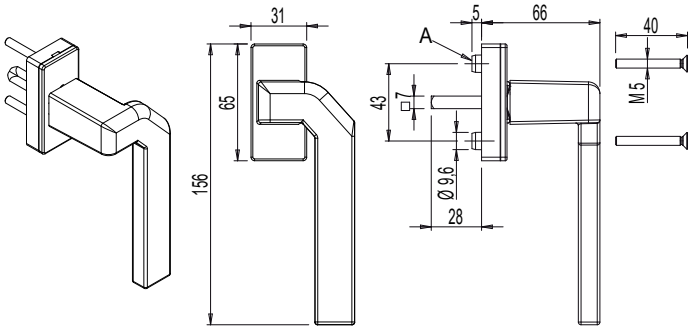
Materials

Handle in aluminium
Square spindle and screws in zinc plated steel

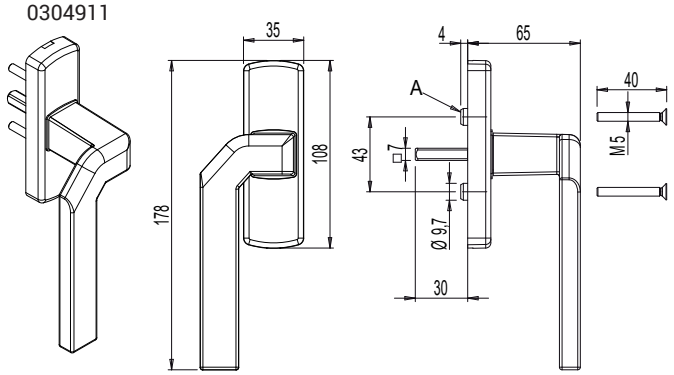
0099611



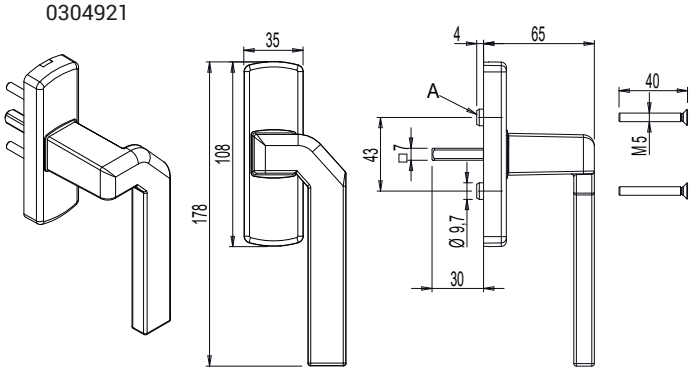
0099621



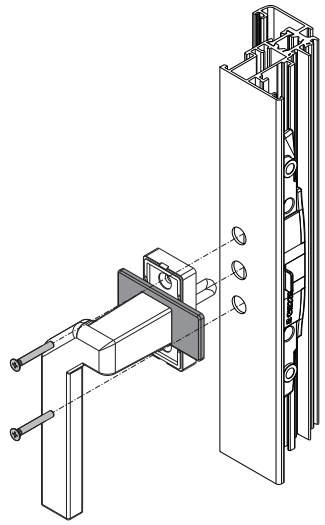
0304911



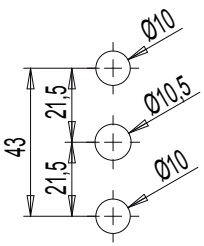
0304921



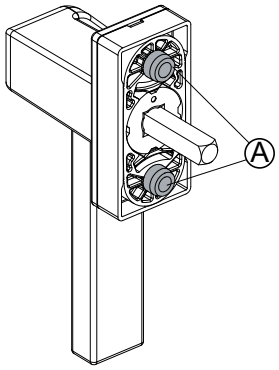
WINDOW HANDLES

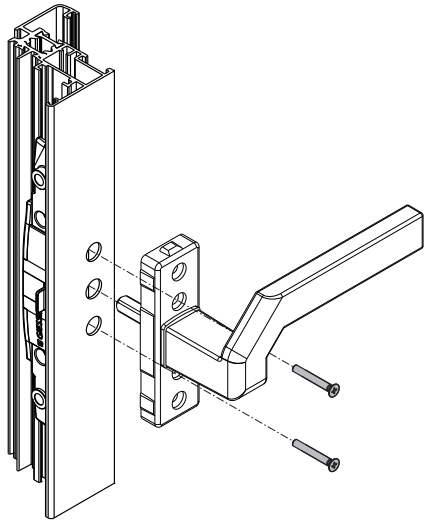


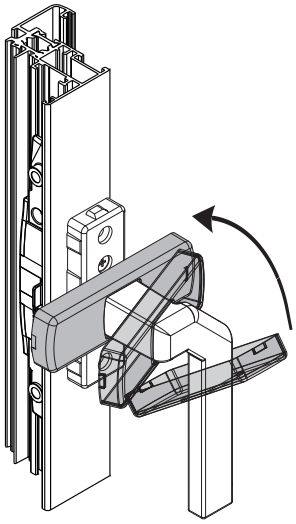
Machining



A = Case anti-rotation turrets







Item code	Description	Version	Case anti-rotation turrets (A)	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0099611	KORA OFFSET WINDOW HANDLE	Right	Yes	C001-C002-C003-C004-C005-C006-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P005-P006-P007-P008-P009-P010	X		X	X	5
0099621	KORA OFFSET WINDOW HANDLE	Left	Yes	C001-C002-C003-C004-C005-C006-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P005-P006-P007-P008-P009-P010	X		X	X	5
0304911	OFFSET KORA WINDOW HANDLE WITH LARGE PLATE	Right	Yes	C001-C002-C003-C004-C005-C006-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	X		X	X	5
0304921	OFFSET KORA WINDOW HANDLE WITH LARGE PLATE	Left	Yes	C001-C002-C003-C004-C005-C006-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	X		X	X	5



BAS WINDOW HANDLE

Functions

The Bas window handle is ideal for operating mechanisms with rotors designed to be actuated by a 7 mm square pin, such as the Champion Plus multilock or the M90 or M180 internal mechanisms.

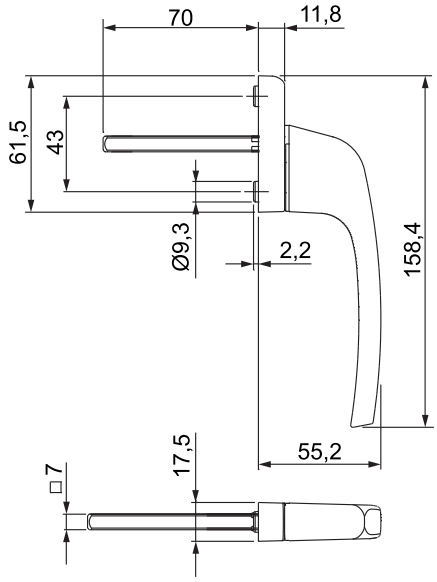
Online data sheet

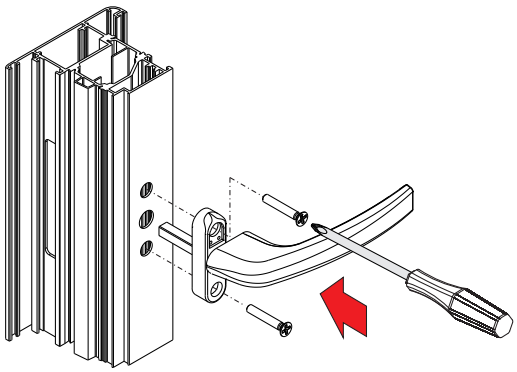
Technical Features

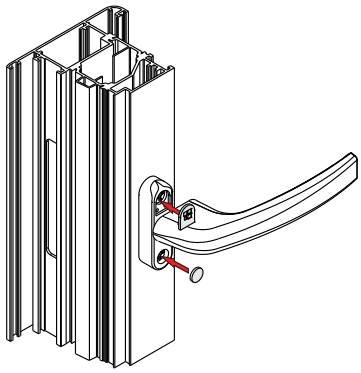
The Bas window handle is naturally applied on outward opening casements that require a particularly short width of the plate of the window handle. As a matter of fact, on this product the plate is just 17.5 mm.
The square pin with a length of 70 mm enables fitting the product on outward opening casements where the mechanism is far away from the window handle (on the inside).
The c/c distance for fixing the product to the hardware is 43 mm, used on most hardware with a rotor for 7 mm square pins.

Materials

Handle of aluminium, plate of zamak
Trip spring of spring steel
Retaining washer and square pin of zinc plated steel
Polyamide caps







Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02491	BAS WINDOW HANDLE	C001-C016-P002				X		5



COMPA WINDOW HANDLE

Functions

The Compa window handle is ideal for operating mechanisms with rotors designed to be actuated by a 7 mm square pin, such as the Champion Plus multilock.

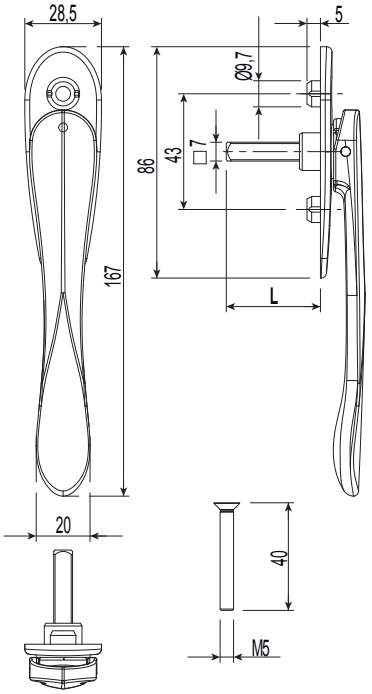
Online data sheet

Technical Features

The window handle is ergonomic and easy to grip for handy operation.
The product's lowered handle means that its application is ideal for folding doors, sliding casements and outward opening.
The c/c distance for fixing the product to the hardware is 43 mm, used on most hardware with a rotor for 7 mm square pins.

Materials

Handle, washer and pin support of zamak
Spring of spring steel
Square pin and pin of zinc plated steel
Polyamide caps



Item code	Description	L (pin length)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0249201	COMPA WINDOW HANDLE	35 mm	X		X		5
02494	COMPA WINDOW HANDLE	50 mm	X		X		5
02500	COMPA WINDOW HANDLE	70 mm	X		X		5



TWO-WAY INTERNAL MECHANISMS

Functions

Two-way mechanism, operated by a window handle, to be inserted in the tubular section of the profile.

Online data sheet

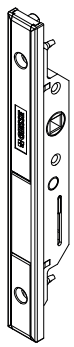
Technical Features

The two-way mechanisms are reversible and designed to be combined with all the window handles made by GIESSE, both in aluminium and brass (with 7 mm square spindle).
The shim, when supplied, is to be placed inside the tubular section of the profile, between the mechanism and the window handle, to enable perfect alignment of the parts.
Connected to the rod, it allows opening/closing inward-opening, pivoting or awning casements.

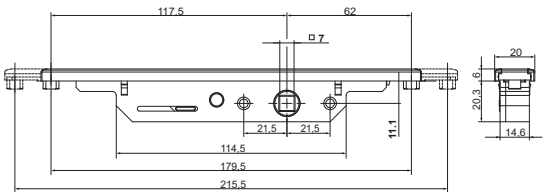
Materials

Case, cover and racks in die-cast zamak
Main and secondary gear in die-cast zamak
Shims in black polyamide
Stainless steel screws

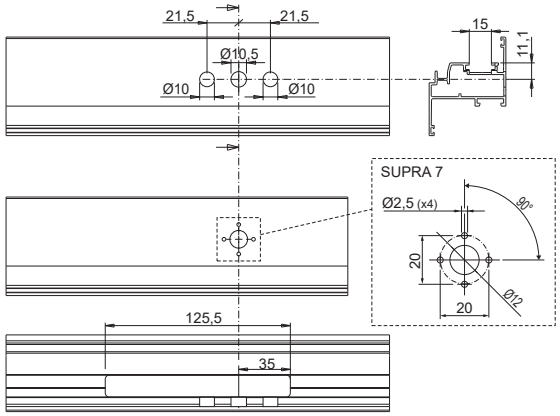
Type A



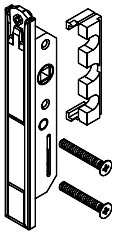
Type A: dimensions



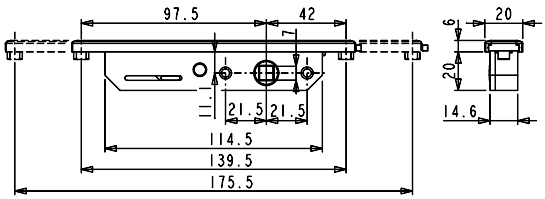
Type A: machining



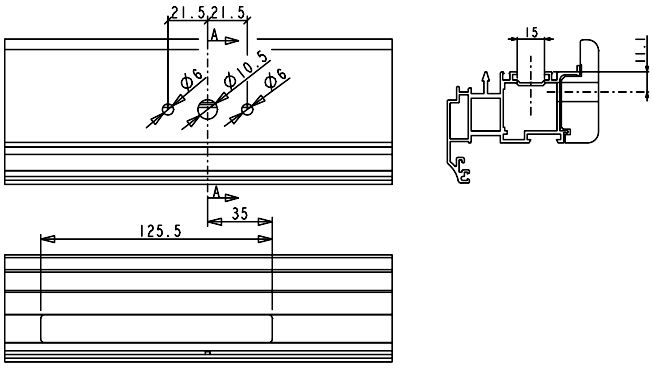
Type B



Type B: dimensions

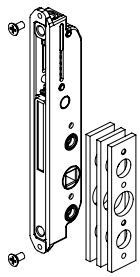


Type B: machining

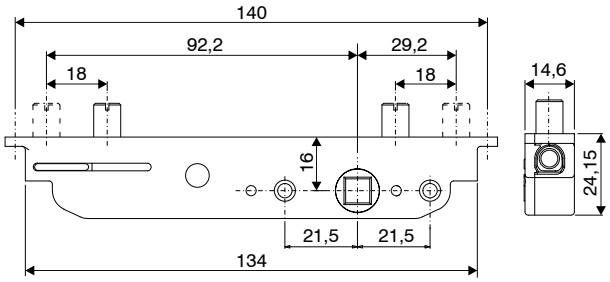


INTERNAL MECHANISMS

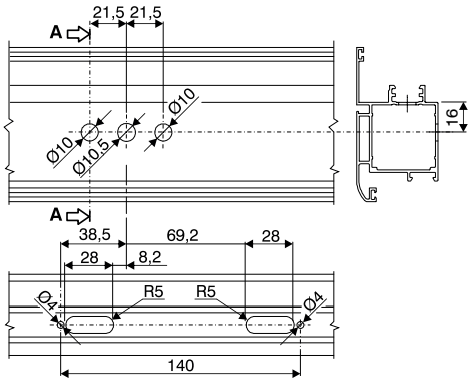
Type C



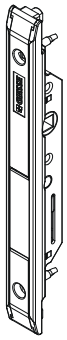
Type C: dimensions



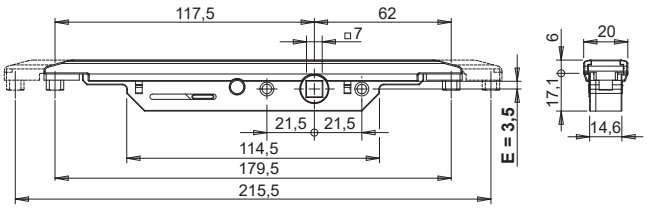
Type C: machining



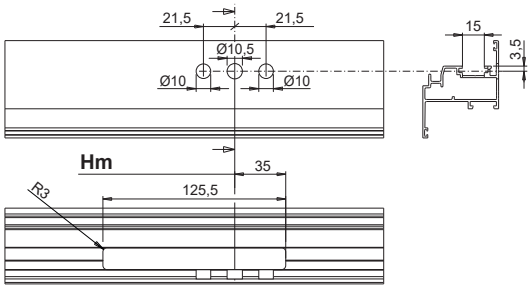
Type D



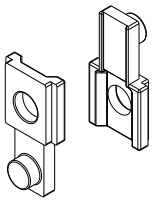
Type D: dimensions



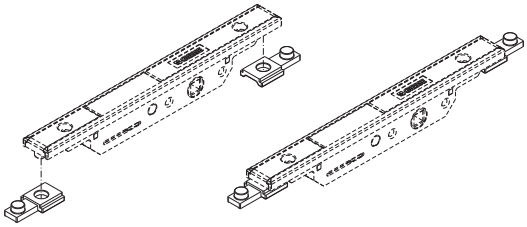
Type D: machining



Type E



Assembly with movement 0102001



Item code	Description	Type	Opening	PROFILE CROSS - SECTION	Pins/Screws	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00948	TWO-WAY INTERNAL MECHANISM	D	Inward opening	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	3,9x19	GS Silver Plus	X				10
0102001	TWO-WAY INTERNAL MECHANISM	A	Inward opening	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	-	GS Silver Plus	X				5
0102101	TWO-WAY INTERNAL MECHANISM	B	Inward opening	C011	M5x60	GS Silver Plus	X				5
0102301	TWO-WAY INTERNAL MECHANISM	B	Inward opening	*	M5x35	GS Silver Plus	X				5
01025K	TWO-WAY INTERNAL MECHANISM	C	Pivoting, Awning	*	-	GS Silver Plus	X				5
01026K	TWO-WAY INTERNAL MECHANISM	C	Pivoting, Awning	*	-	GS Silver Plus	X				5
01190	R40 ADAPTER KIT FOR TWO-WAY INWARD MOVEMENT	E	Inward opening	C007	-	GS Silver Plus	X				10

* Refer to the online catalog for exact series/code matching.



ONE-WAY INTERNAL MECHANISMS

Functions

One-way mechanism, operated by window handle, to be inserted in the tubular section of the profile to operate the GIESSE tilt-and-turn sash fastening mechanisms.

Online data sheet

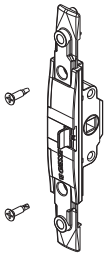
Technical Features

The mechanisms are reversible and designed to be combined with all the window handles made by GIESSE, both in aluminium and brass (with 7 mm square spindle).
The shim supplied, to be placed inside the tubular section of the profile, between the mechanism and the window handle, enables perfect alignment of the parts.

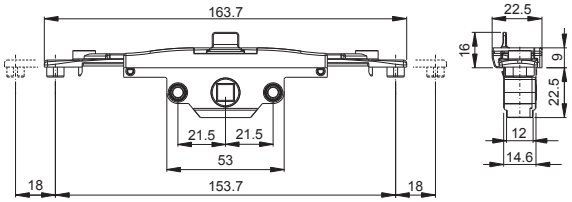
Materials

Rack, case, incorrect movement safety device slide, cover for mechanism and gear in die-cast zamak.
Shims in black polyamide.
Screws and spring of zinc-nickel plated steel.

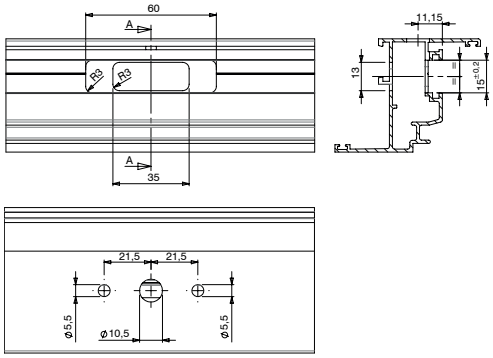
Type A



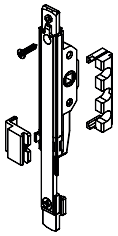
Type A: dimensions



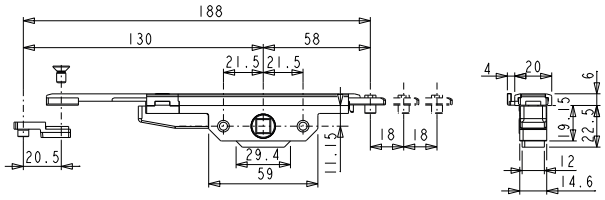
Type A: machining



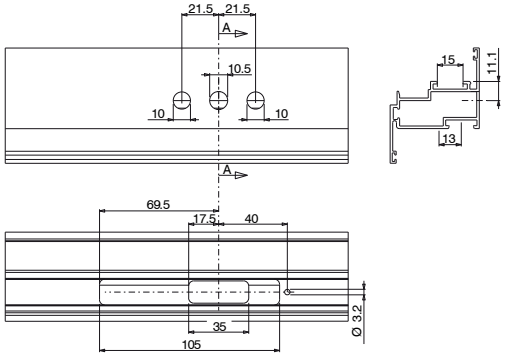
Type B



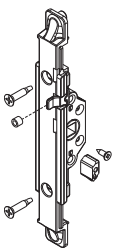
Type B: dimensions



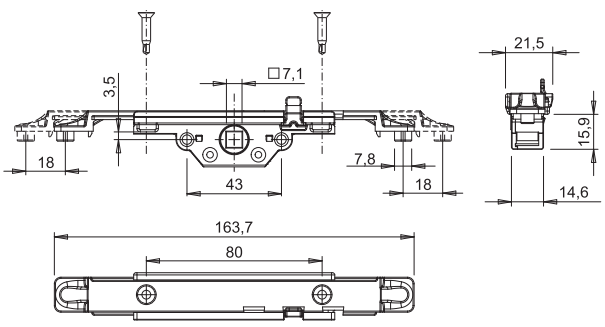
Type B: machining



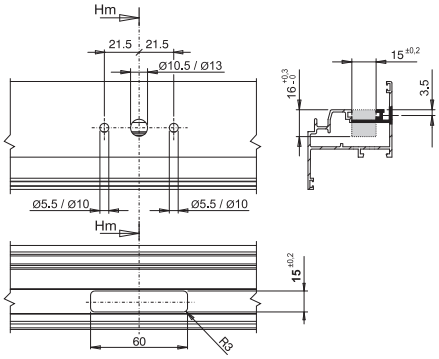
Type C



Type C: dimensions



Type C: machining



INTERNAL MECHANISMS

Item code	Description	Type	PROFILE CROSS - SECTION	Screws	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00949	ONE-WAY MECHANISM M180	C	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	-	GS Silver Plus	X				10
01029K	ONE-WAY MECHANISM M180	B	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	-	GS Silver Plus	X				5
0103001	ONE-WAY MECHANISM M180	B	C011	M5x60	GS Silver Plus	X				5
0106101	ONE-WAY MECHANISM M180	A	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	-	GS Silver Plus	X				10
01062	ONE-WAY MECHANISM M180	A	C007	-	GS Silver Plus	X				10



TWO-WAY MECHANISM FOR GHIBO OUT OUTWARD OPENING

Functions

Ghibo out is a two-way device, to be housed in the tubular profile that, via a window handle, moves the rods and locking points of outward-opening side-hung windows.

Online data sheet

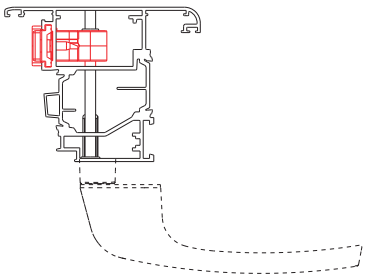
Technical Features

Ideal for outward-opening side-hung windows (Side Hung, shutters, etc.).
These devices are reversible and are ready to be fitted on either right or left sashes.
The long two-way stroke of the hardware of 18 mm thus allows plenty of overlap of the fastening components.
It is recommended to use these mechanisms in combination with fastening bolt tips type art. 02114K and sill strikers type art. 02159.
The mechanisms are designed to accommodate a 7 mm square pin and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with the two screws supplied.
The two polyamide tubes supplied are to be placed inside the tubular profile and they perform the function of a spacer between the base of the window handle and the mechanism, allowing the mechanism to maintain perfect alignment of the parts.

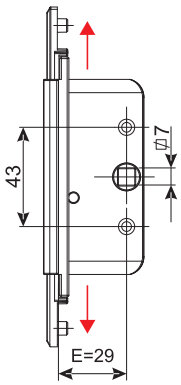
Materials

Case and connection devices to transmit motion in silver painted zamak
Rotor in zinc plated zamak
Tubes and bushings of black polyamide
Stainless steel fixing screws

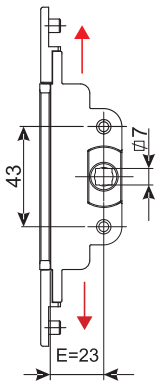
Example of application



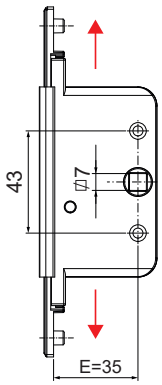
art. 04093 E= 29
stroke 18 mm



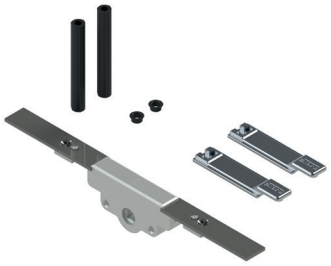
art. 04094 E= 23
stroke 17 mm



art. 04108 E= 35
stroke 18 mm



Item code	Description	Opening	Stroke	Backset	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04093	GHIBO OUT TWO-WAY MECHANISM - BS 29	Outward-opening side-hung window	18 mm	29 mm	Compatible with Window Handles with 7 mm square pin - fixing c/c distance 43 mm	X				5
04094	GHIBO OUT TWO-WAY MECHANISM - BS 23	Outward-opening side-hung window	17 mm	23 mm	Compatible with Window Handles with 7 mm square pin - fixing c/c distance 43 mm	X				5
04108	GHIBO OUT TWO-WAY MECHANISM - BS 35	Outward-opening side-hung window	18 mm	35 mm	Compatible with Window Handles with 7 mm square pin - fixing c/c distance 43 mm	X				5



ONE-WAY MECHANISM FOR GHIBO OUT OUTWARD OPENING

Functions

The one-way Ghibo out internal mechanism is housed in the hollow section of the profile and, via a window handle, moves the rods and locking points of outward-opening side-hung windows.

Online data sheet

Technical Features

Ideal for outward-opening side-hung windows (Side Hung, doorways, etc.).
This device is reversible and is ready to be fitted on either right or left sashes.
The depths of the mechanisms are:
- 22 mm
- 27 mm
- 32 mm

Products make a one-way stroke of 18 mm thus allowing plenty of overlap of the fastening components.
It is recommended to use this mechanism in combination with fastening pawls type art. 04030K and strikers type art. 01343K.
The mechanism is designed to accommodate a 7 mm square pin and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with screws, not supplied.
It is possible to combine the mechanisms Art. 04082/04083/04084 with the Ghibo Key Out mechanism Art. 04086/04087/04088. With these products you can lock the sliding of the fastening rod via a Euro cylinder (not supplied).

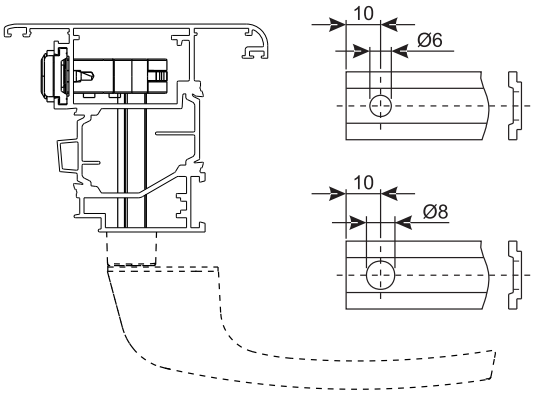
Materials

Front plate and sliding component of steel
Case, rotor and connection devices to transmit motion in silver painted zamak
Tubes and bushings of black polyamide

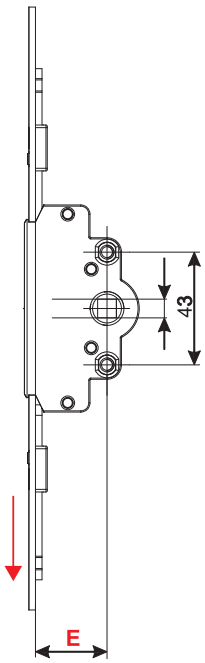
Parts

2 polyamide tubes
2 rod - mechanism connection components
2 bushings for coupling on rods with 8 mm hole

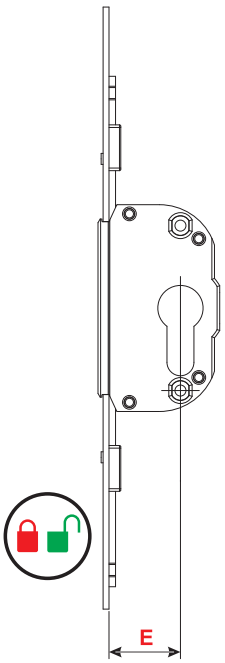
Example of application



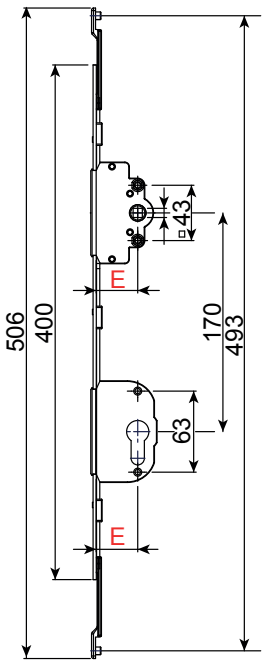
Type A



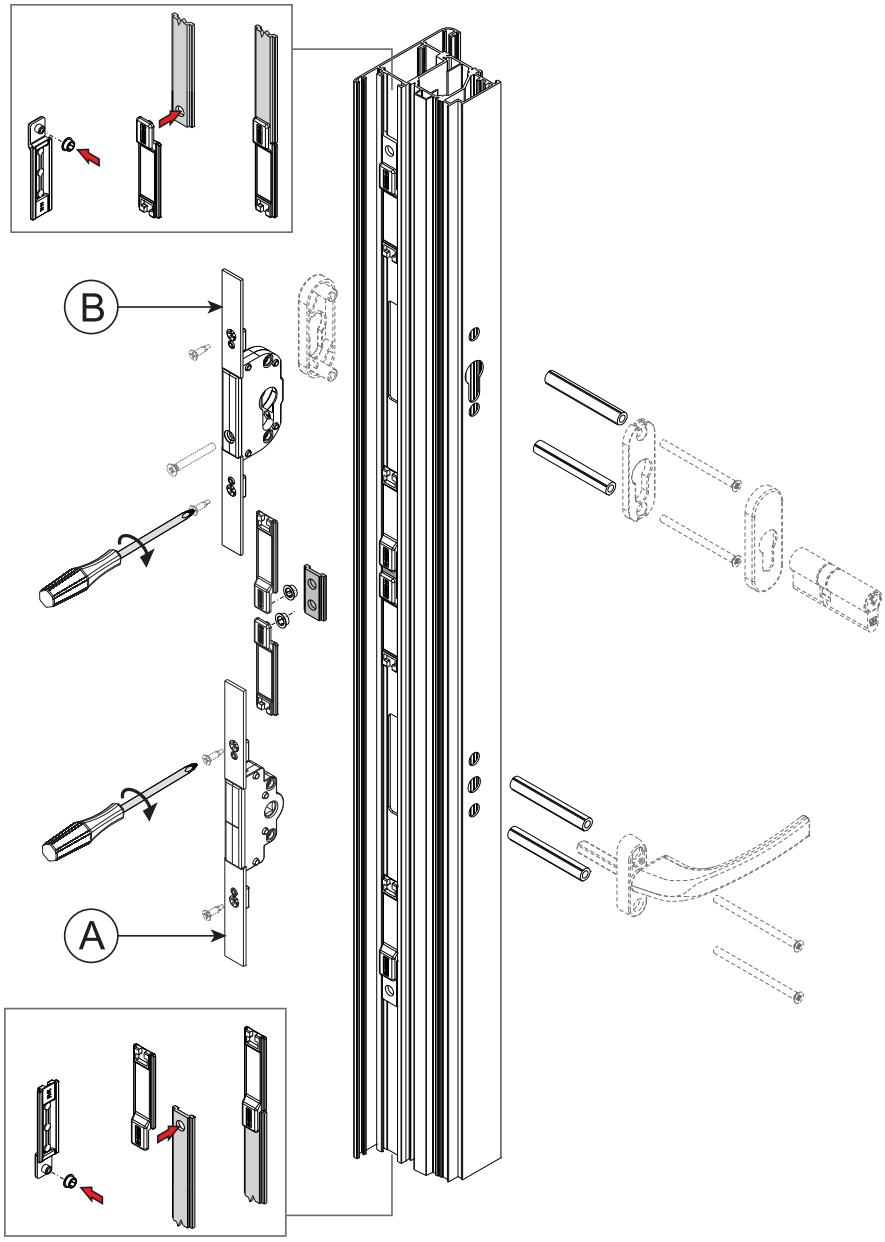
Type B



Type C

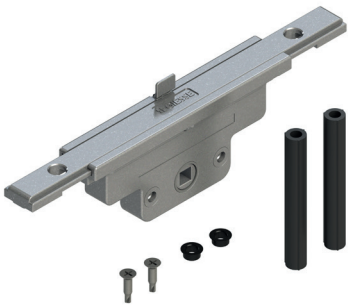


A = Ghibo Out mechanism
B = Hardware for Ghibo Out mechanism



INTERNAL MECHANISMS

Item code	Description	Opening	Drawing	Technical notes	Backset	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04082	GHIBO OUT ONE-WAY MECHANISM - BS 22	Outward-opening side-hung window	Type A	stroke 18 mm	E=22 mm		X				5
04083	GHIBO OUT ONE-WAY MECHANISM - BS 27	Outward-opening side-hung window	Type A	stroke 18 mm	E=27 mm		X				5
04084	GHIBO OUT ONE-WAY MECHANISM - BS 32	Outward-opening side-hung window	Type A	stroke 18 mm	E =32 mm		X				5
04086	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 22	Outward-opening side-hung window	Type B	for art. 04082 - Compatible with standard European cylinders and Art. 04095-04096	E=22 mm		X				5
04087	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 27	Outward-opening side-hung window	Type B	for art. 04083 - Compatible with standard European cylinders and Art. 04095-04096	E=27 mm		X				5
04088	MECHANISM FOR GHIBO OUT KEY ONE-WAY MECHANISM - BS 32	Outward-opening side-hung window	Type B	for art. 04084 - Compatible with standard European cylinders and Art. 04095-04096	E =32 mm		X				5
04106	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 32	Outward-opening side-hung window	Type C	stroke 18 mm	E =32 mm	Single rod, integrating both the mechanism and the key block	X				5
04143	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 22" INOX	Outward-opening side-hung window	Type A	stroke 18 mm	E =22 mm		X				5
04144	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 27" INOX	Outward-opening side-hung window	Type A	stroke 18 mm	E =27 mm		X				5
04145	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 32" INOX	Outward-opening side-hung window	Type A	stroke 18 mm	E =32 mm		X				5
04146	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 22" INOX	Outward-opening side-hung window	Type B	for art. 04143 - Compatible with standard European cylinders and Art. 04095-04096	E =22 mm		X				5
04147	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 27" INOX	Outward-opening side-hung window	Type B	for art. 04144 - Compatible with standard European cylinders and Art. 04095-04096	E =27 mm		X				5
04148	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 32" INOX	Outward-opening side-hung window	Type B	for art. 04145 - Compatible with standard European cylinders and Art. 04095-04096	E =32 mm		X				5
04149	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 22" INOX	Outward-opening side-hung window	Type C	stroke 18 mm	E =22 mm	Single rod, integrating both the mechanism and the key block	X				5
04151	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 27" INOX	Outward-opening side-hung window	Type C	stroke 18 mm	E =27 mm	Single rod, integrating both the mechanism and the key block	X				5
04152	ONE-WAY MECHANISM GHIBO OUT WITH KEY - BS 32" INOX	Outward-opening side-hung window	Type C	stroke 18 mm	E =32 mm	Single rod, integrating both the mechanism and the key block	X				5



GHIBO ONE-WAY M180 OUTWARD OPENING MECHANISMS

Functions

The one-way Ghibo out internal mechanism is housed in the hollow section of the profile and, via a window handle, moves the rods and locking points of outward-opening side-hung windows.
It is equipped with an incorrect movement safety device.

Online data sheet

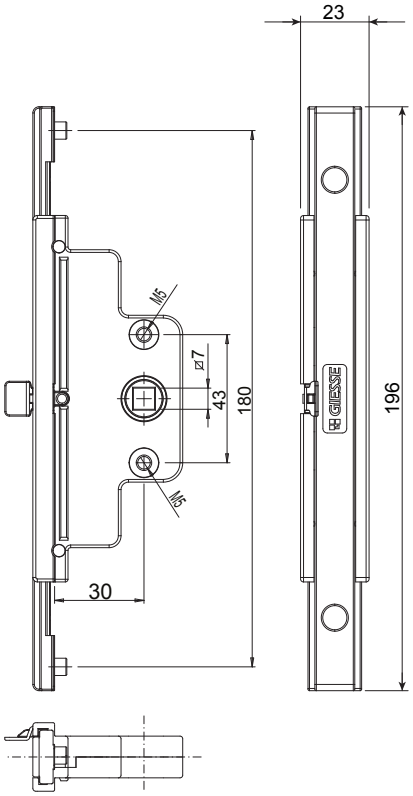
Technical Features

Ideal for outward-opening side-hung windows (Side Hung, doorways, etc.).
This device is reversible and is ready to be fitted on either right or left sashes.
The mechanism is equipped with an incorrect movement safety device and has a stroke of 36 mm (18 + 18).
It is designed to accommodate a 7 mm square spindle and to be combined with all the window handles made by GIESSE, both of aluminium and brass, with a 43 mm fixing C/C distance.
The product is secured to the sash profile with the screws supplied.

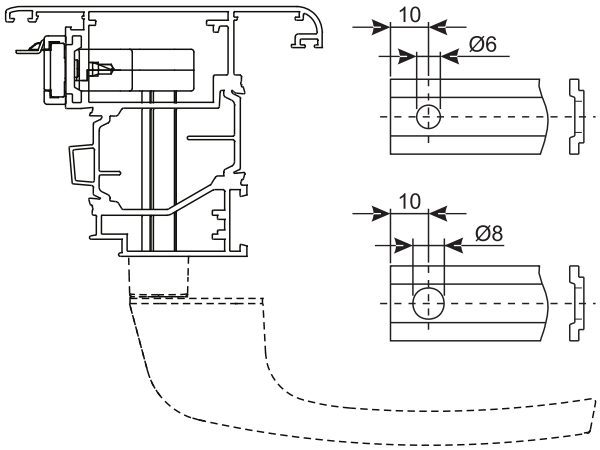
Materials

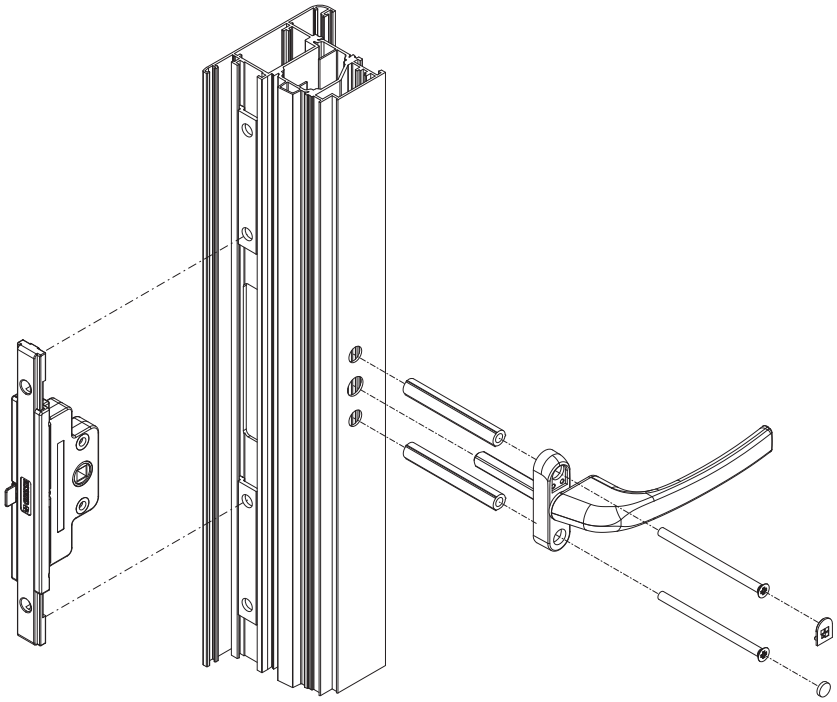
Case and connection devices to transmit motion and rotor made of zamak
Incorrect movement safety device made of stainless steel
Tubes and bushings of black polyamide
Stainless steel fixing screws

Overall dimensions

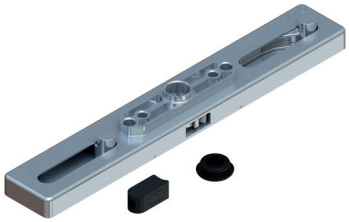


Example of application





Item code	Description	Opening	Technical notes	Backset	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04089	ONE-WAY MECHANISM M180 BS 30	Outward-opening side-hung window	stroke 36 mm	E= mm 30	X				5



ONE-WAY MOVEMENT GHIBO PLUS CW1

Functions

The Ghibo Plus movement is a one-way device, to be housed on a sash profile of a curtain wall for the rods and fastening pawls movement through a window handle.

Online data sheet

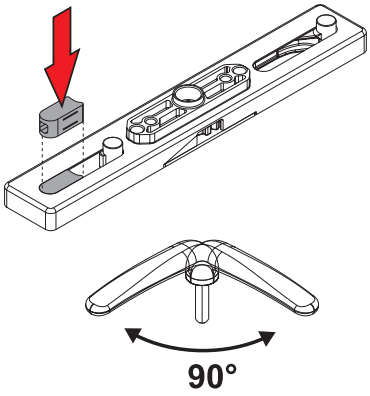
Technical Features

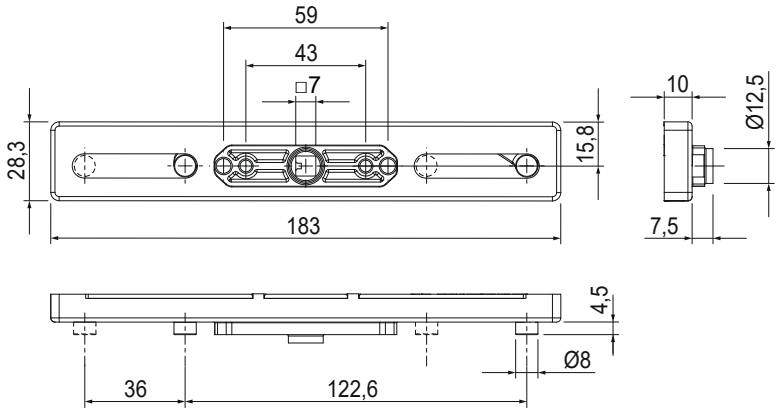
The mechanism has a stroke of 36 mm and ensures an excellent grip of the pawls (sash) on the strikers (frame).
The mechanism is particularly strong and has a cover made of stainless steel.
The C/C distance of the fixing holes is 43 mm and the rotor has a square hole of 7 mm: this ensures the mechanism is compatible with all the window handles on the market.
The movement is compatible with rods with 8 mm hole.

Materials

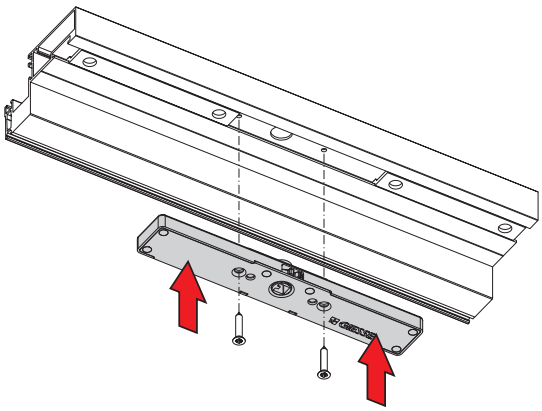
Housing in Zamak
Stainless steel cover
Polyamide bushes

90° block

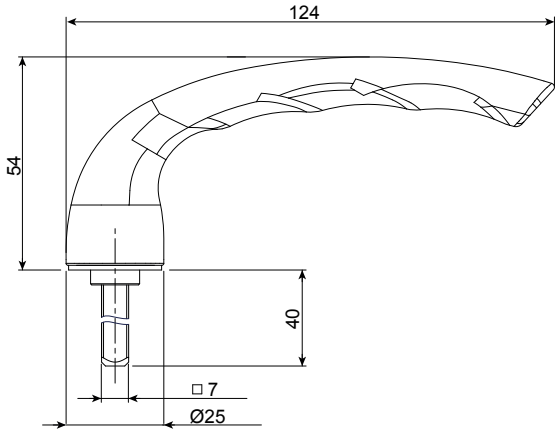




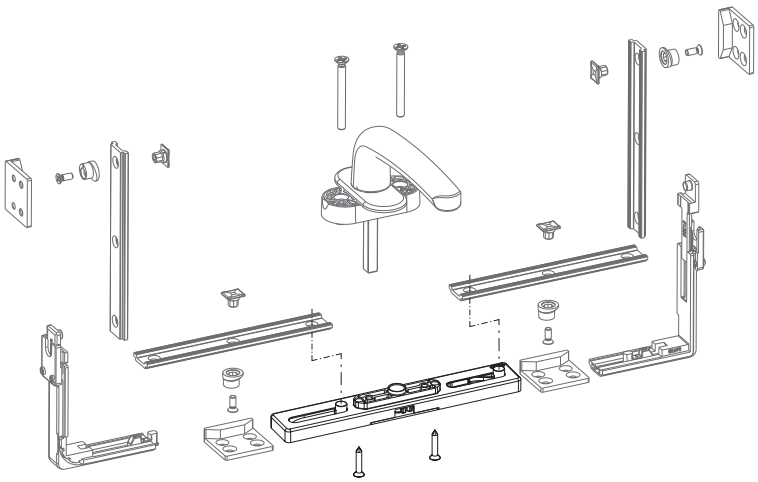
Application on profile

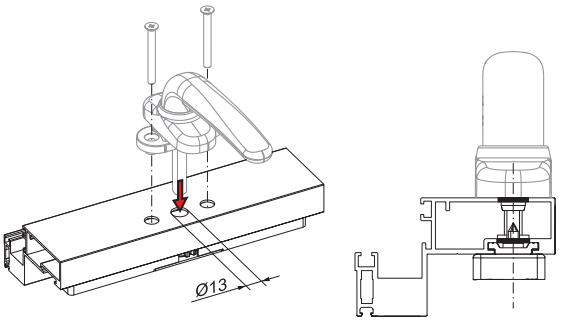


art. 02016

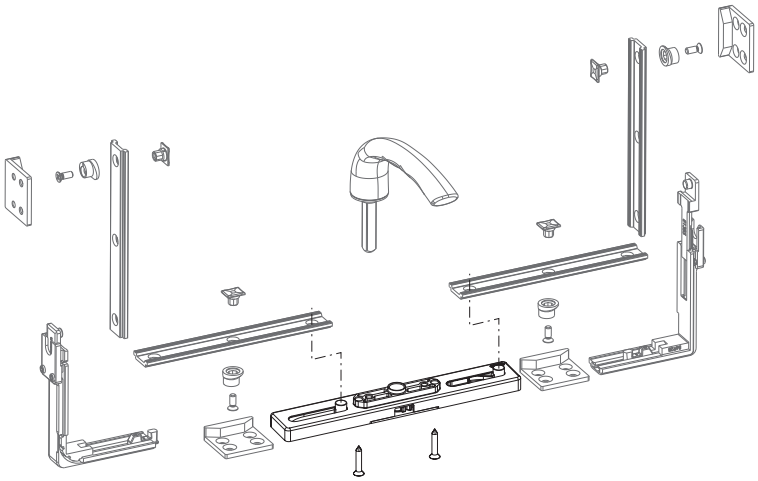


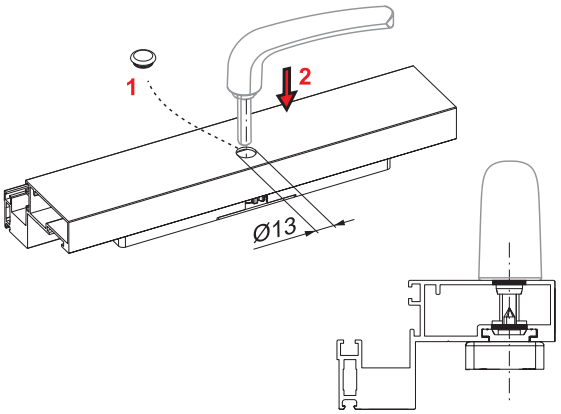
Application with handle





Application with removable handle





Item code	Description	Opening	Stroke	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02016	AWAY WINDOW HANDLE	-	-	-			X		5
02079	MOVEMENT GHIBO PLUS CW1	Top Hung	36 mm	Compatible with Window Handles with 7 mm square pin, not removable - fixing c/c distance 43 mm	X				5



PRIMA PLUS HANDLE

Functions

Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

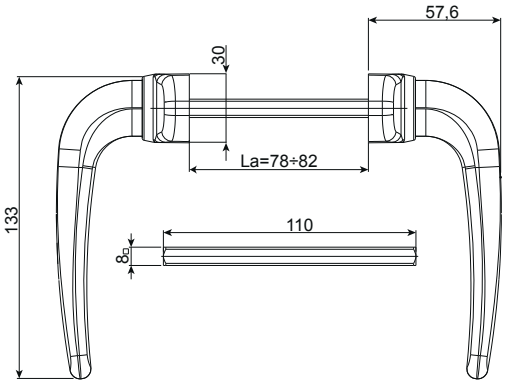
Online data sheet

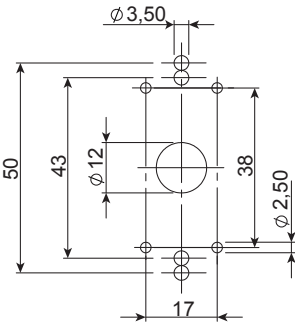
Technical Features

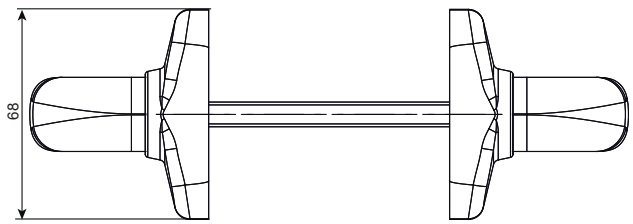
The PRIMA PLUS handle comprises a case, plate and rotor which, combined with a return spring, enables reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market. Fixing to the profile is done with the self-tapping screws Ø4.2x16 supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials

Handle made of die-cast aluminium (painted versions) or zamak (Trend finishes)
Expansion rotor and plate made of galvanised zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Plate cover made of zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin







Item code	Description	Note	Square spindle [mm]	La [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02792	PRIMA HANDLE	pair	8x8x110	78÷82	X		X	X	10



MASTERMONT HANDLE

Functions

Pair of reversible aluminium handles for fitting on the upright or centre rail of the door.

Online data sheet

Technical Features

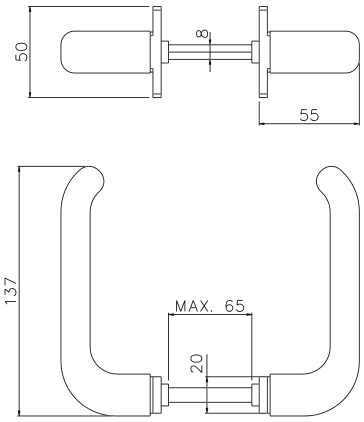
The MASTER MONT handle is composed of two handles, two flat pins and two fixing plates.
The aluminium pull handle has the same styling as the EURO line of cremones.
The handle is applicable on profiles of up to 65 mm wide without cutting the spindle.

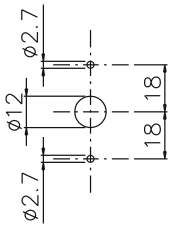
Materials

Handle in aluminium
Flat pins 8x4x122 in zinc plated steel
Polyamide fixing plate
Fixing screws, zinc-coated steel
Nickel-plated steel grub screws

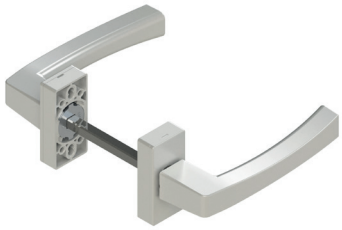
Parts

2 Pins 8x4x112 mm
4 CSH self-tapping screws 3.5x13
2 Grub screws M6x10





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02458	MASTERMONT HANDLE	pair	X		X		20



ASIA HANDLE

Functions

Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

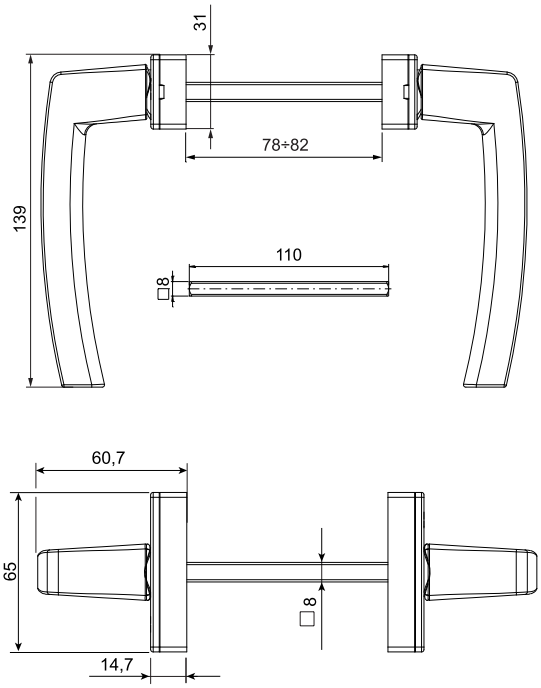
Online data sheet

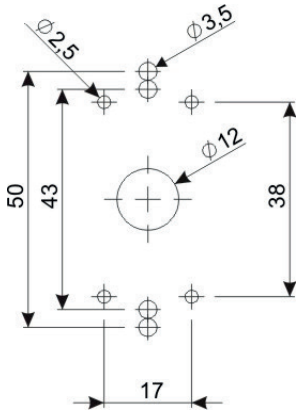
Technical Features

The ASIA door handle comprises a base and a rotor which, combined with a return spring, enables reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market. Fixing to the profile is done with the self-tapping screws Ø 4.2x16 supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

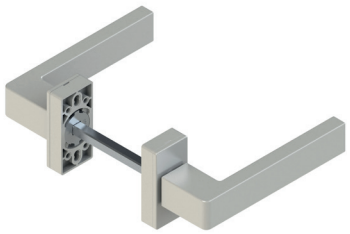
Materials

Handle in die-cast aluminium
Rotor in zinc plated zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Base and cover made of painted zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin





Item code	Description	Note	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02414	ASIA HANDLE	pair	8x8x110	X		X		10



KORA DOOR HANDLES

Functions

Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

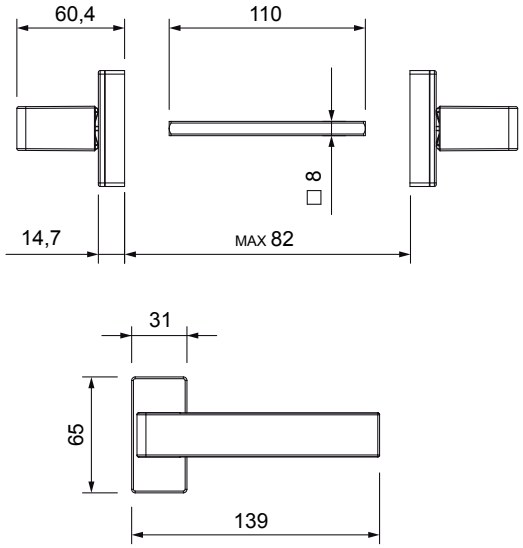
Online data sheet

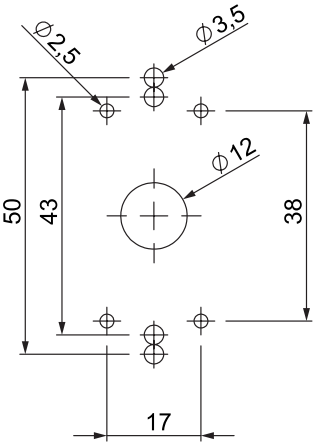
Technical Features

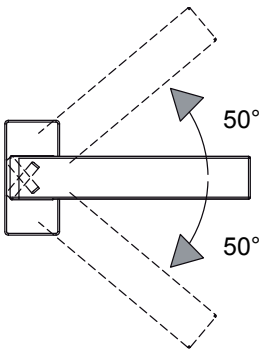
The KORA door handle comprises a base and a rotor which, combined with a return spring, enables reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market. Fixing to the profile is done with the self-tapping screws Ø 4.2x16 supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials

Handle in die-cast aluminium
Rotor in zinc plated zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Base and cover made of painted zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin







Item code	Description	Note	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02563	KORA DOOR HANDLE	pair	8x8x110	X		X	X	10



MASTER PLUS HANDLE

Functions

Pair of aluminium handles, reversible with stop, for fitting on the upright or centre rail of the door.

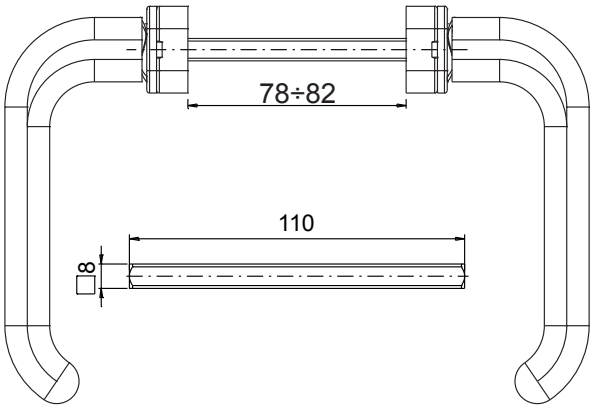
Online data sheet

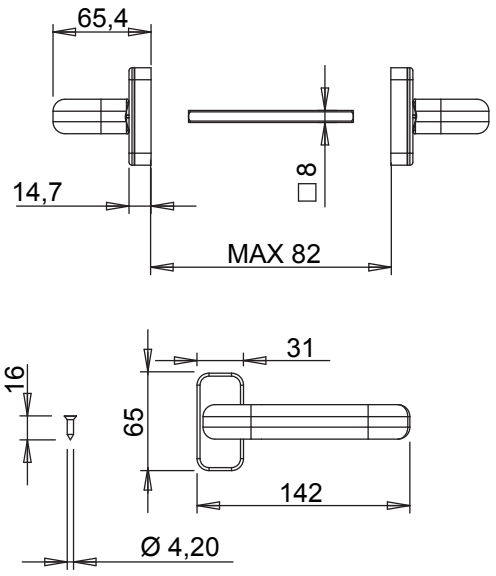
Technical Features

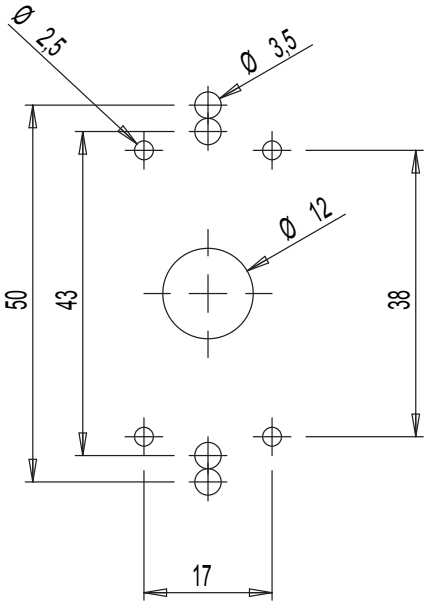
The MASTER PLUS door handle comprises a base and a rotor which, combined with a return spring, allows reversible operation and horizontal positioning of the handle.
Instant access to the fixing screws by simply rotating the plate cover.
The double C/C distance of the drilling, 43 and 50 mm, enables the handle to be fitted on the majority of profiles available on the market.
Fixing to the profile is carried out using the Ø 4.2x16 self-threading screws supplied with the handle.
The base has 4 holes, with c/c distance 38 mm, for using additional screws (not provided) when changing the handle.
The handle rotor is equipped with a mechanical stop that safeguards the end stroke of the spring, preventing damage and consequent breakage, in case of incorrect operation.
The 110 mm square pin supplied lets you install the handle on profiles from 78 to 82 mm wide (without cutting the pin).
The handle is protected and finished using the GIESSE painting system, which guarantees high quality surfaces, uniformity of colour and excellent resistance to abrasions.
The components are pretreated to guarantee resistance to surface scaling.

Materials

Handle in die-cast aluminium
Rotor in zinc plated zamak
Self-forming screw for fixing to the rotor made of zinc-plated steel
Base and cover made of painted zamak
Compression spring made of stainless steel
Steel return spring
Screws for fixing to the profile and square pin 8x8x110 in zinc plated steel
Shim washers made of acetal resin







Item code	Description	Note	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02422	MASTER PLUS HANDLE	pair	8x8x110	X		X		10



MASTERPLAST HANDLE

Functions

Pair of polyamide handles, reversible with stop, for fitting on the upright or centre rail of the door.

Online data sheet

Technical Features

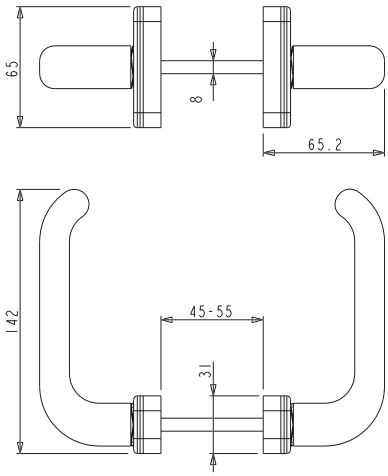
The MASTERPLAST handle is composed of a pair of handles, completely pre-assembled, and an 8 mm square pin.
The pull handle is pre-assembled to the plate for fixing to the profile, to the screw cap cover and to the rotor with the spring which enables reversible operation, stopping and horizontal positioning of the handle.
The pull handle of the handle has the same styling as the EURO line cremones.
The handle is applicable on profiles of from 45 to 55 mm wide without cutting the spindle.

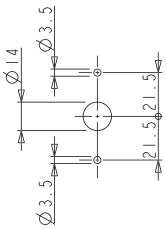
Materials

Base, cover and handle made of polyamide (red/black)
Rotor in zinc plated zamak
Acetal resin spring
Square pin 8x8x110 and fixing screws in zinc plated steel.

Parts

1 Square pin mm. 8x8X110
4 Self-tapping zinc plated cross-slotted screws 4.2x19





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02456	MASTERPLAST HANDLE	black polyamide	X				20



CYLINDER COVER PLATES

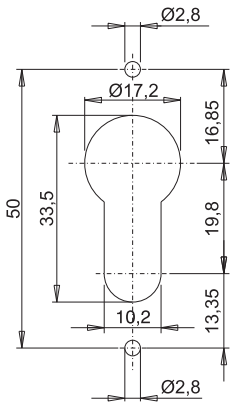
Functions
Cylinder cover plates for European profile cylinder.

Online data sheet

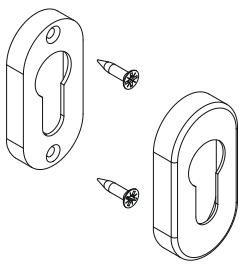
Technical Features
The cover plate is composed of a plate that is fixed to the profile by self-threading screws and a cover that is snap-fixed on the plate.
The cover plate design matches that of its handle.

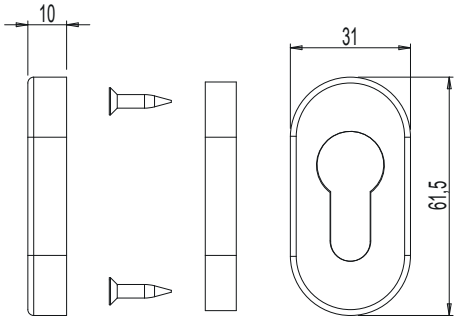
Materials
External cover plate made of aluminium or painted zamak
Polyamide cover plate sub-base
Zinc plated steel screws

European cylinder machining

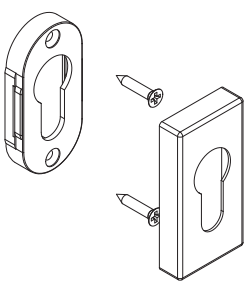


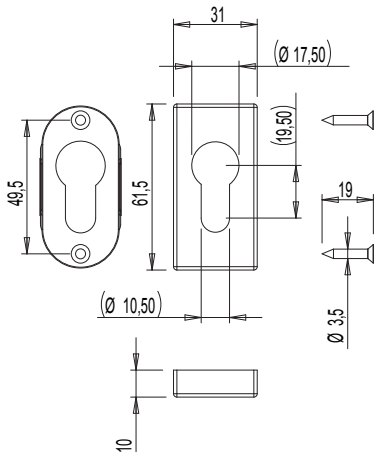
0243001



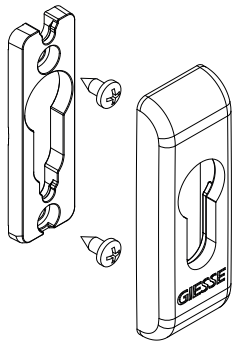


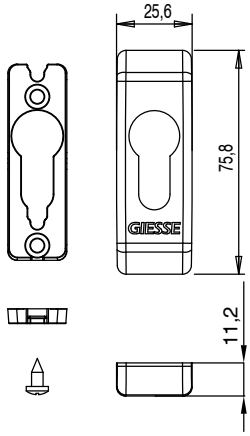
02431



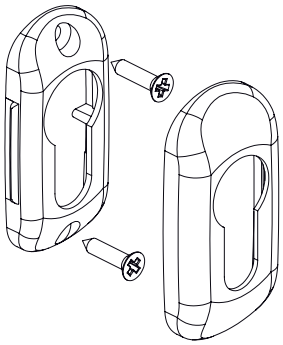


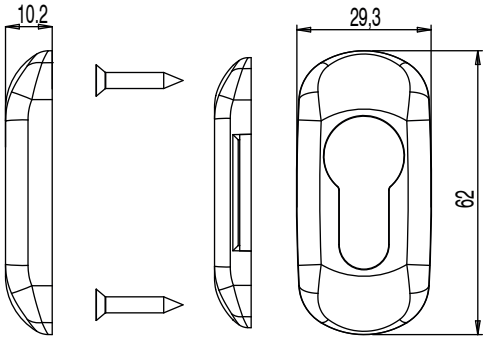
04476N





07058N





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0243001	CYLINDER COVER PLATE	1 set= 1 cover + 1 cover plate	X		X	X	20
02431	ASIA CYLINDER COVER PLATE	1 set= 1 cover + 1 cover plate	X		X	X	20
04476N	CYLINDER COVER PLATE	1 set= 1 cover + 1 cover plate	X		X		20
07058N	OVAL ROSETTE FOR MACHINED CYL.	1 set= 2 covers + 2 cover plates	X		X	X	20



GHIBO OUT KEY CYLINDER COVER PLATE

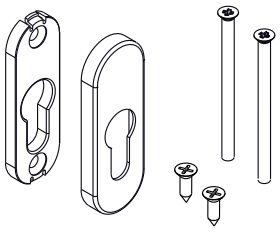
Functions
Cylinder cover plate for European profile cylinder.

Online data sheet

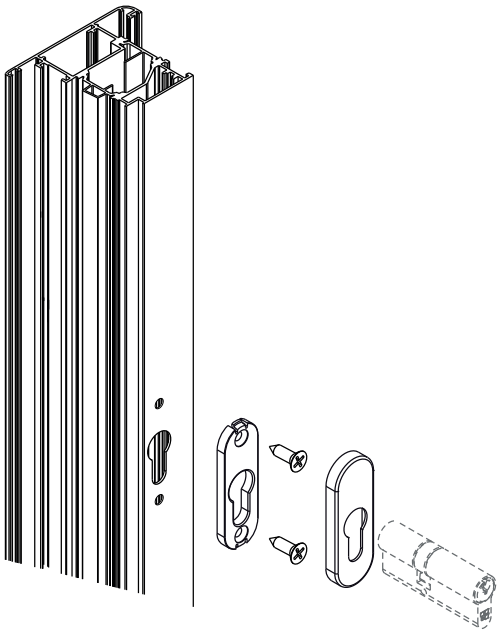
Technical Features
Cylinder cover plates with European profile for GHIBO OUT KEY mechanisms.
Available in IN cylinder cover plate to cover the cylinder on the inside only.
The product is compatible only with mechanisms that have a fixing c/c distance of 63 mm such as GHIBO OUT KEY products.

Materials
Internal cover plate of painted aluminium
Polyamide sub-plate
Zinc plated steel screws

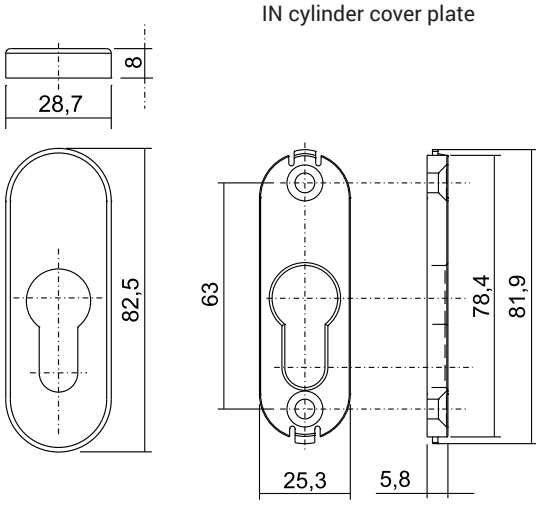
Art. 04096



Assembly sequence Art. 04096



IN cylinder cover plate



Item code	Description	Technical notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04096	IN cylinder cover plate	for art. 04086/87/88 - Compatible with standard European cylinders	X		X		5



LOCKS FOR TOP-BOTTOM LOCKING

Functions

Central lock, slip-on version for aluminium stiles, with adjustable spring latch and tilting bolt, ready for rod connection for top/bottom fastening mechanism.

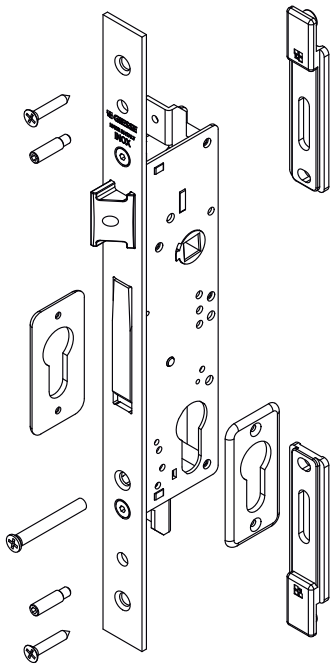
Online data sheet

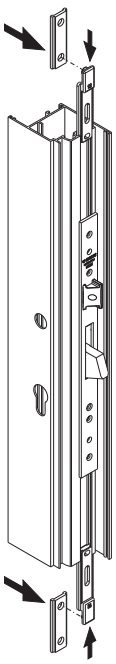
Technical Features

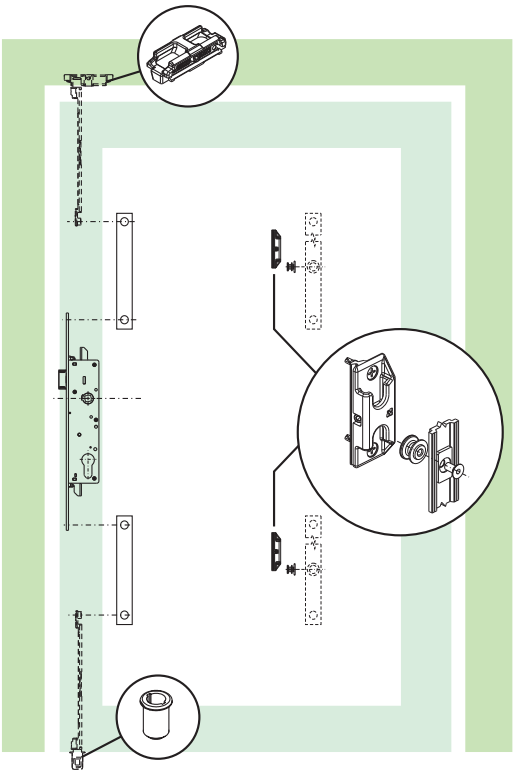
Lock compatible with European profile cylinders, has a burglar-proof tilting bolt and a reversible spring latch (RH or LH), adjustable from 10 to 15 mm.
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 to 15 mm protrusion.
The pair of two-way adapters supplied with the lock, for connecting to the polyamide rod, enables making top bottom locking at several points.
Stroke is 15.5 mm.
The adapters for connecting to the rod have connecting pins size 8 mm.

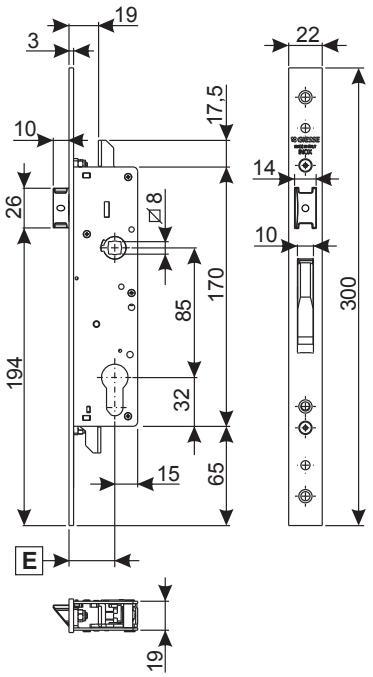
Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Rod connection adapters in zamak
Polyamide cylinder machining cover studs
Pins for fixing adapters and screw for fixing cylinder in zinc plated steel
Lock fixing screws in stainless steel

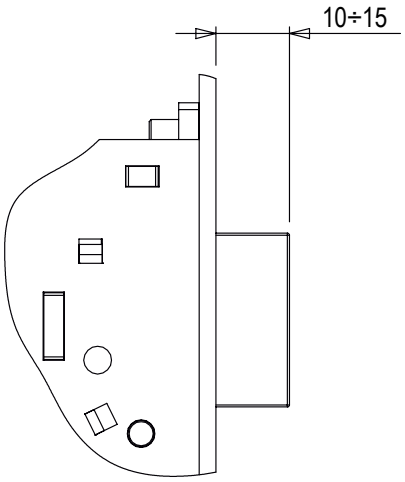








spring latch adjustment



Item code	Description	BACKSET E [mm]	FRONT WIDTH [mm]	PROFILE CROSS - SECTION	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0462701	LOCK FOR TOP/BOTTOM FAS-TENING	30	22	04630 - 04639 - 04859 - 04860	X					1
0462801	LOCK FOR TOP/BOTTOM FAS-TENING	35	22	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04630 - 04639 - 04859 - 04860	X				10



LOCKS FOR PERIMETER LOCKING

Functions

Central lock with spring latch and bolt, slip-on version for aluminium uprights , with two-way mechanism operated by handle.

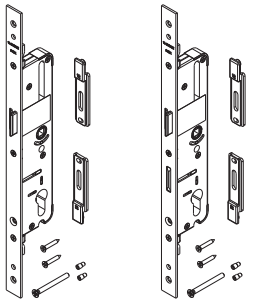
Online data sheet

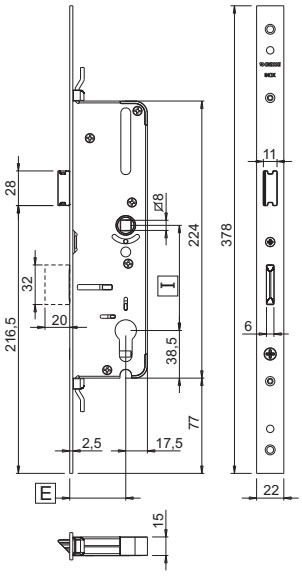
Technical Features

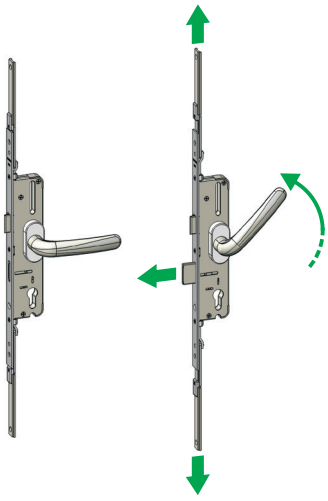
Lock compatible with European profile cylinders, available in version with or without bolt.
Coupled with the polyamide rod, via the specific connection adapters, the lock enables making multipoint locking by suitably choosing the number and the position of the lock points on the various sides of the door.
Operation of the spring latch, bolt (on the version fitted with them) and adapters using the 8 mm handle spindle.
Locking and unlocking the handle using the key.
Cylinder handle C/C distance 85 mm and 92 mm.
Bolt with thickness of 6 mm and stroke of 20 mm.
Reversible spring latch (left/right) with 10 mm protrusion.
Stroke is 18 mm.
The adapters for connecting to the rod have connecting pins size 8 mm.
Note: For the lock to function properly it is mandatory to fit a pair of internal/external handles

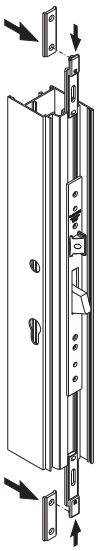
Materials

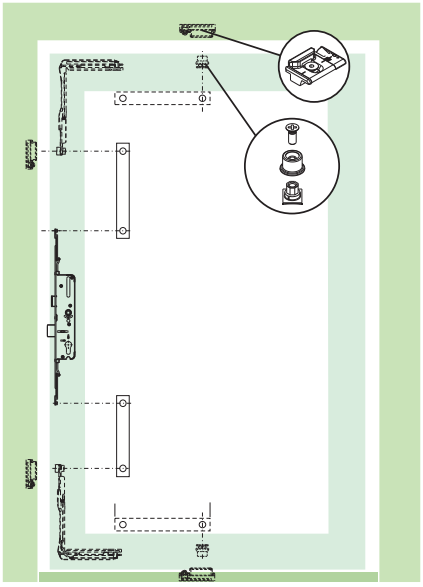
Lock cover plate and case plate in zinc plated steel (except for Article 04699 that has a stainless steel body)
Internal components in zinc plated steel
Flat front in stainless steel
Spring latch and bolt in zinc plated zamak
Rod connection adapters in zamak
Pins for fixing adapters and screws for fixing lock in zinc plated steel
Stainless steel cylinder fixing screw











DOOR LOCKS

Item code	Description	BACKSET [mm]	CYLINDER HANDLE C/C DISTANCE [mm]	FRONT WIDTH [mm]	BOLT	PROFILE CROSS - SECTION	COMPATIBLE COUNTER-PLATES	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04645	LOCK FOR PERIMETER FASTENING	35	85	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04646	LOCK FOR PERIMETER FASTENING	35	85	22	YES	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04649	LOCK FOR PERIMETER FASTENING	45	85	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04650	LOCK FOR PERIMETER FASTENING	45	85	22	YES	C001	04655	X				1
04698	LOCK FOR PERIMETER FASTENING	45	92	22	NO	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1
04699	LOCK FOR PERIMETER FASTENING	45	92	22	YES	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C016-C017	04655	X				1



LOCKS WITH SPRING LATCH

Functions

Central lock with front closing, slip-on version for aluminium uprights, with adjustable spring latch and tilting bolt.

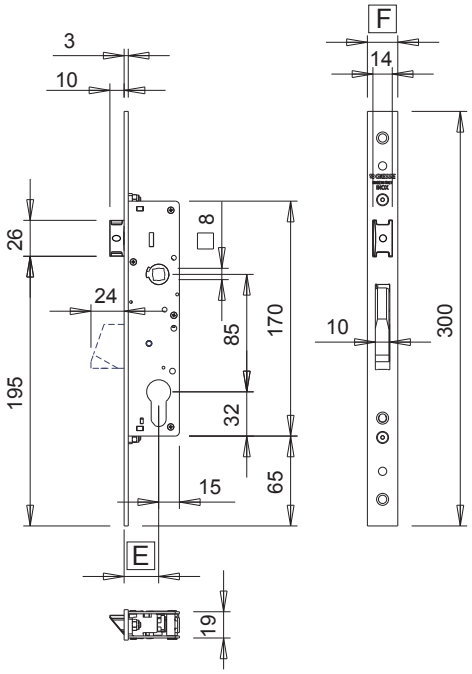
Online data sheet

Technical Features

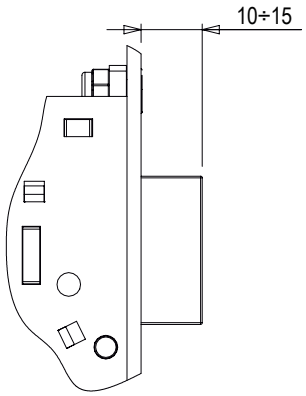
Lock compatible with European profile cylinders, has a burglar-proof tilting bolt and a reversible spring latch (RH or LH), adjustable from 10 to 15 mm.
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 to 15 mm protrusion

Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Polyamide cylinder machining cover studs
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Spring latch adjustment



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0461301	CENTRAL LOCK WITH SPRING LATCH	25	22	04630 - 04639 - 04859 - 04860	X				10
0461401	CENTRAL LOCK WITH SPRING LATCH	30	22	04630 - 04639 - 04859 - 04860	X				10
0461501	CENTRAL LOCK WITH SPRING LATCH	35	22	04630 - 04639 - 04859 - 04860	X				10
0461901	CENTRAL LOCK WITH SPRING LATCH	25	24	04630 - 04639 - 04859 - 04860	X				10
0462001	CENTRAL LOCK WITH SPRING LATCH	30	24	04630 - 04639 - 04859 - 04860	X				10
0462101	CENTRAL LOCK WITH SPRING LATCH	35	24	04630 - 04639 - 04859 - 04860	X				10



LOCKS WITH DEAD BOLT AND SPRING LATCH

Functions

Central lock with front closing, slip-on version for aluminium uprights , with spring latch and sliding bolt.

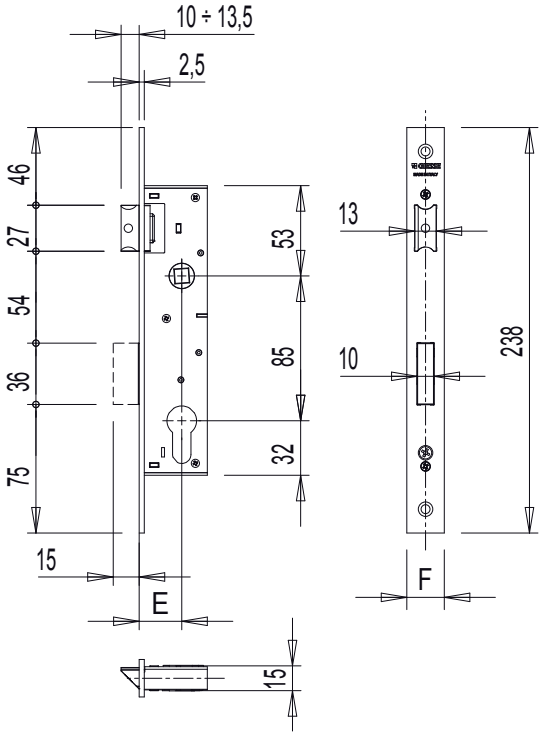
Online data sheet

Technical Features

Lock compatible with European profile cylinders, has a dead bolt and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Dead bolt with thickness of 10 mm and protrusion of 15 mm.
10 to 13,5 mm adjustable spring latch.

Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Nickel plated brass spring latch and bolt
Nickel-plated steel bolt
Zinc plated steel cylinder fixing screw



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0763001	CENTRAL LOCK FRONT E.25 mm	25	22	0465801	X				1
0763101	CENTRAL LOCK FRONT E.30 mm	30	22	0465801	X				1
0763201	CENTRAL LOCK FRONT E.35 mm	35	22	0465801	X				1



ROLLER AND BOLT LOCKS

Functions

Central lock, slip-on version for aluminium uprights , with roller and pivoting bolt.

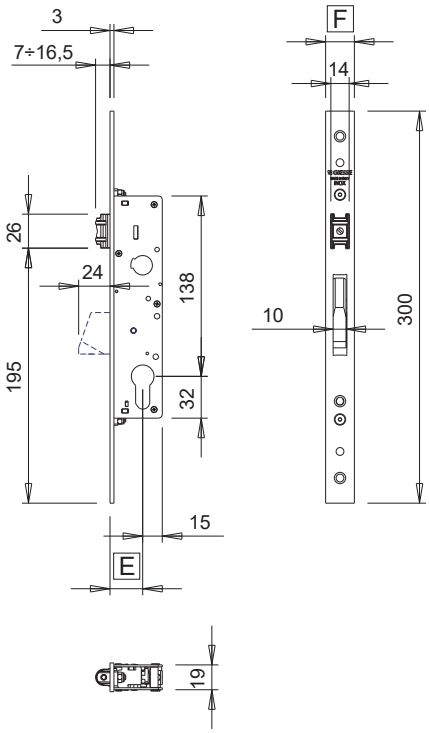
Online data sheet

Technical Features

Lock compatible with European profile cylinders, has a burglar-proof pivoting bolt and a protrusion adjustable roller.
Bolts operated with the cylinder.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Roller protrusion adjustable from 7 mm to 16,5 mm.

Materials

Lock cover plate and case plate in zinc plated steel
Flat front in stainless steel
Nickel-plated zamak roller
Nickel-plated steel bolt
Polyamide cylinder machining cover studs
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width F [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04616	CENTRAL LOCK WITH ROLLER	25	22	04630 - 04639 - 04859 - 04860	X				10
04617	CENTRAL LOCK WITH ROLLER	30	22	04630 - 04639 - 04859 - 04860	X				10
04618	CENTRAL LOCK WITH ROLLER	35	22	04630 - 04639 - 04859 - 04860	X				10
04623	CENTRAL LOCK WITH ROLLER	30	24	04630 - 04639 - 04859 - 04860	X				10
04624	CENTRAL LOCK WITH ROLLER	35	24	04630 - 04639 - 04859 - 04860	X				10



MULTIPOINT LOCKS FLAT FRONT

Functions

Multipoint lock with central lock and two additional locks, flat front plate, with pivoting bolt and spring latch

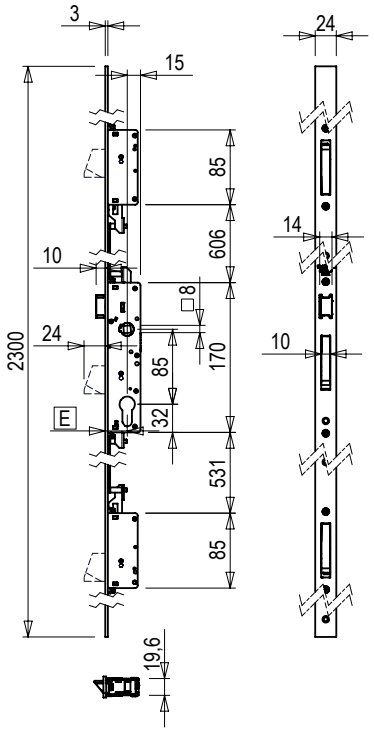
Online data sheet

Technical Features

Lock compatible with European profile cylinders, has burglar-proof pivoting bolts and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.

Materials

Lock cover plates and case plate in zinc plated steel
Flat front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04854	MULTIPOINT LOCK WITH FLAT FRONT	30	24	04861 - 04862	X				1
04855	MULTIPOINT LOCK WITH FLAT FRONT	35	24	04861 - 04862	X				1



MULTIPOINT DOOR LOCKS U-SHAPED FRONT

Functions

Multipoint lock with central lock and additional locks, front "U"shaped plate, with pivoting bolt and spring latch.

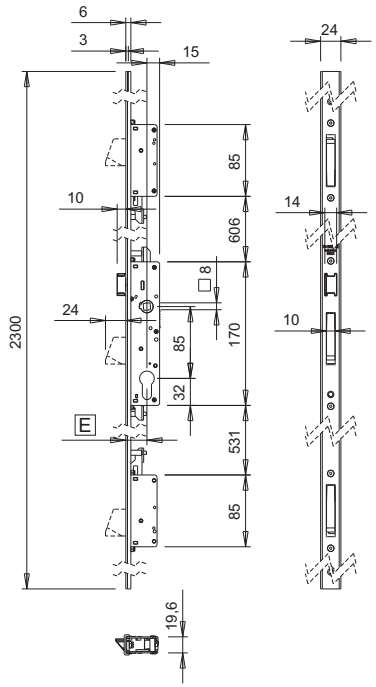
Online data sheet

Technical Features

Lock compatible with European profile cylinders, has burglar-proof pivoting bolts and a reversible spring latch (RH or LH).
Bolts operated with the cylinder.
Spring latch operated with the cylinder and with the 8 mm handle spindle.
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.

Materials

Lock cover plates and case plate in zinc plated steel
Stainless steel "U" front
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Item code	Description	Backset E [mm]	Front width [mm]	Compatible counterplates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04850	MULTIPOINT LOCK WITH "U" FRONT	25	24	04861 - 04862	X				1
04851	MULTIPOINT LOCK WITH "U" FRONT	30	24	04861 - 04862	X				1
04852	MULTIPOINT LOCK WITH "U" FRONT	35	24	04861 - 04862	X				1



COUNTERPLATES

Functions

Counterplates to be combined with the central locks and multipoint locks per doors.

Online data sheet

Technical Features

Type 1 and 2

Adjustable stainless steel counterplates to be combined with the door locks.
Front fixing in a channel with a cam system for coupling in the channel.
Side adjustment ± 2mm with the two adapters ready-assembled to the counterplate

Type 3, 4 and 5

Counterplates and set of flat counterplates to be combined with the single and multi-point locks.
Front fixing with self-tapping screws.
Side adjustment with slots.

Type 6 and 7

Counterplates and set of "U"shaped counterplates to be combined with the single and multi-point locks.
Front fixing with self-tapping screws.
Side adjustment with slots.

Type 8

Shim under the front to be used on profile cross-sections with a large stack to improve the grip of the spring latch of the lock on the counterplate.

Type 9

Flat counterplateto be combined with the locks with dead bolt and latch.
Front fixing with self-tapping screws.

Materials

Type 1 and 2

Front plate, cams and screws for fixing to the profile made of stainless steel
Adapters for side adjustment made of zamak

Type 3, 4 and 5

Counterplates and screws for fixing to the profile made of stainless steel

Type 6 and 7

Counterplates and screws for fixing to the profile made of stainless steel
Polyamide concealer caps

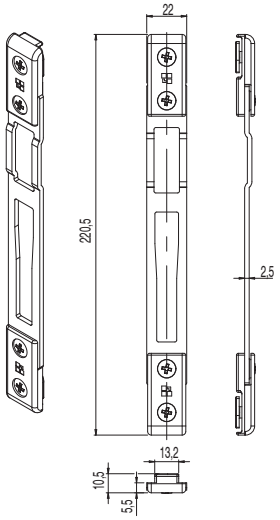
Type 8

Polyamide shim

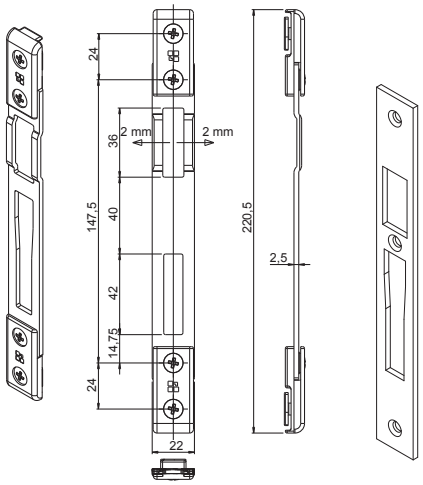
Type 9

Counterplates and screws for fixing to the profile made of stainless steel

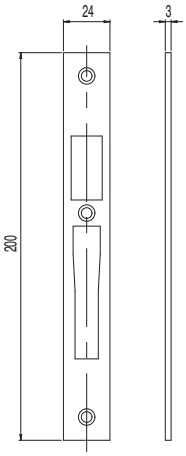
Counterplate Type 1



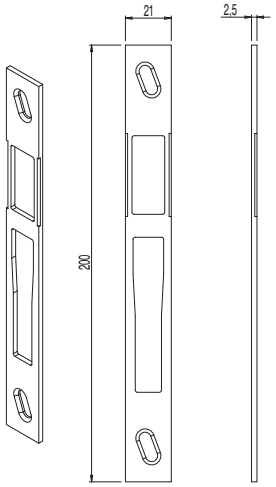
Counterplate Type 2



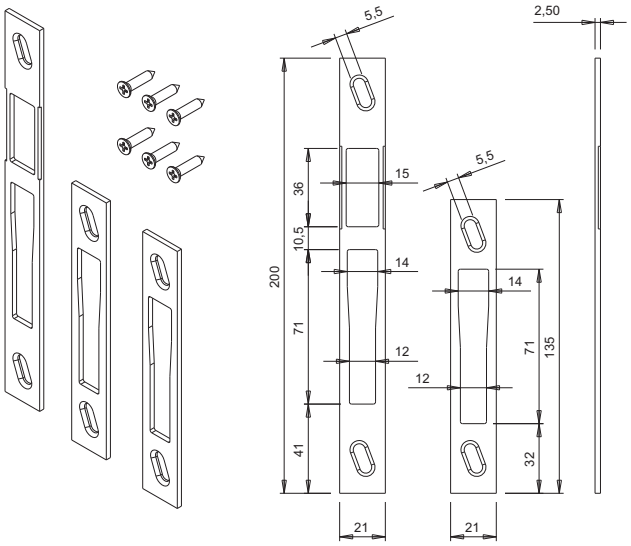
Counterplate Type 3



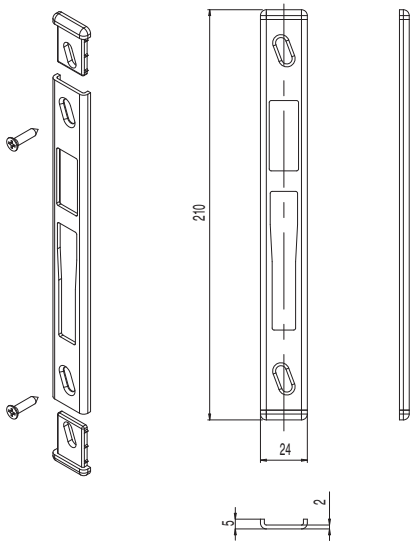
Counterplate Type 4



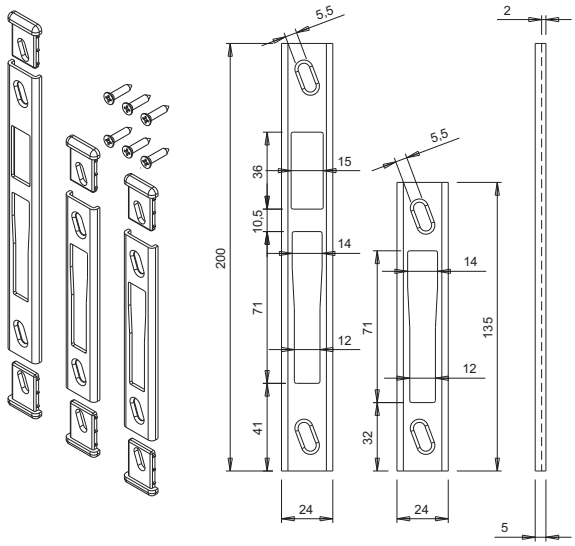
Counterplate Type 5



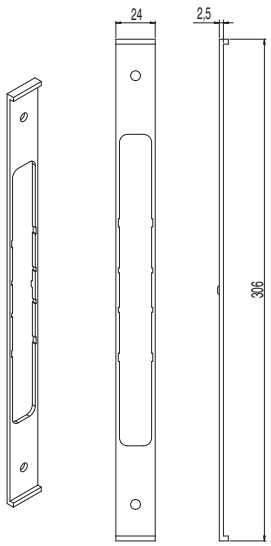
Counterplate Type 6



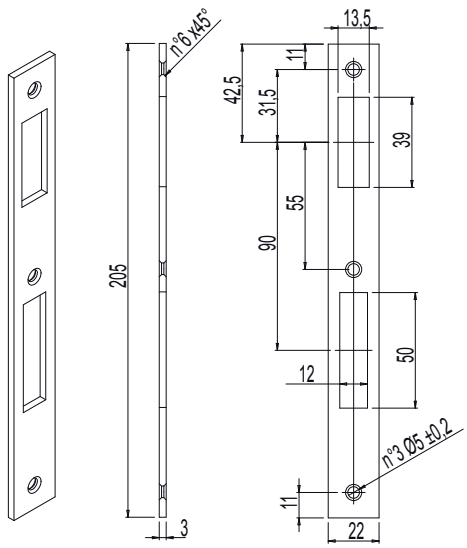
Counterplate Type 7



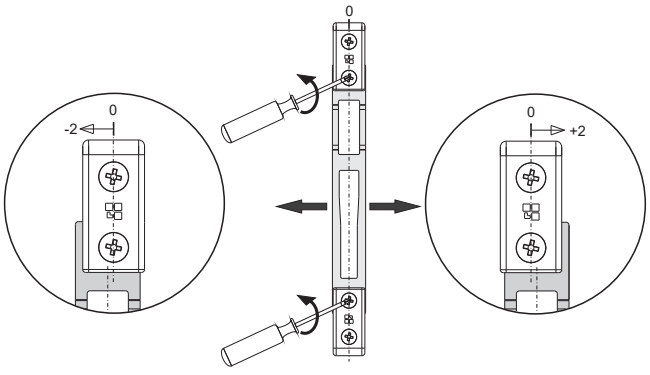
Counterplate Type 8



Counterplate Type 9



Adjustments



DOOR LOCKS

Item code	Descriptions	Note	Adjustment	Width [mm]	PROFILE CROSS - SECTION	Can be combined with lock	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04630	COUNTERPLATE FOR DOOR LOCKS	Type 1	± 2 mm	22	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04623 - 04624	X				5
04639	UNIVERSAL COUNTERPLATE	Type 3	-	24		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04623 - 04624	X				10
04655	COUNTERPLATE FOR LOCKS FOR PERIMETER LOCKING	Type 2	± 2 mm	22	C001-C016	04645 - 04646 - 04649 - 04650 - 04699	X				5
0465801	FLAT COUNTERPLATE	Type 9	-	22		0763001 - 0763101 - 0763201	X				10
04859	COUNTERPLATE W/ FLAT FRONT	Type 4	± 1.5 mm	21		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04623 - 04624	X				5
04860	COUNTERPLATE W/ U FRONT	Type 6	± 1.5 mm	24		0462701 - 0462801 - 0461301 - 0461401 - 0461501 - 04616 - 04617 - 04618 - 0461901 - 0462001 - 0462101 - 04623 - 04624	X				5
04861	FLAT FRONT COUNTERPLATE KIT	Type 5	± 1.5 mm	21	C001	04850 - 04851 - 04852 - 04853 - 04854 - 04855	X				5
04862	U FRONT COUNTERPLATE KIT	Type 7	± 1.5 mm	24	C001	04850 - 04851 - 04852 - 04853 - 04854 - 04855	X				5
04863	SHIM UNDER FRONT	Type 8	-	-	C001	0461901 - 0462001 - 0462101	X				5



RODS AND ACCESSORIES

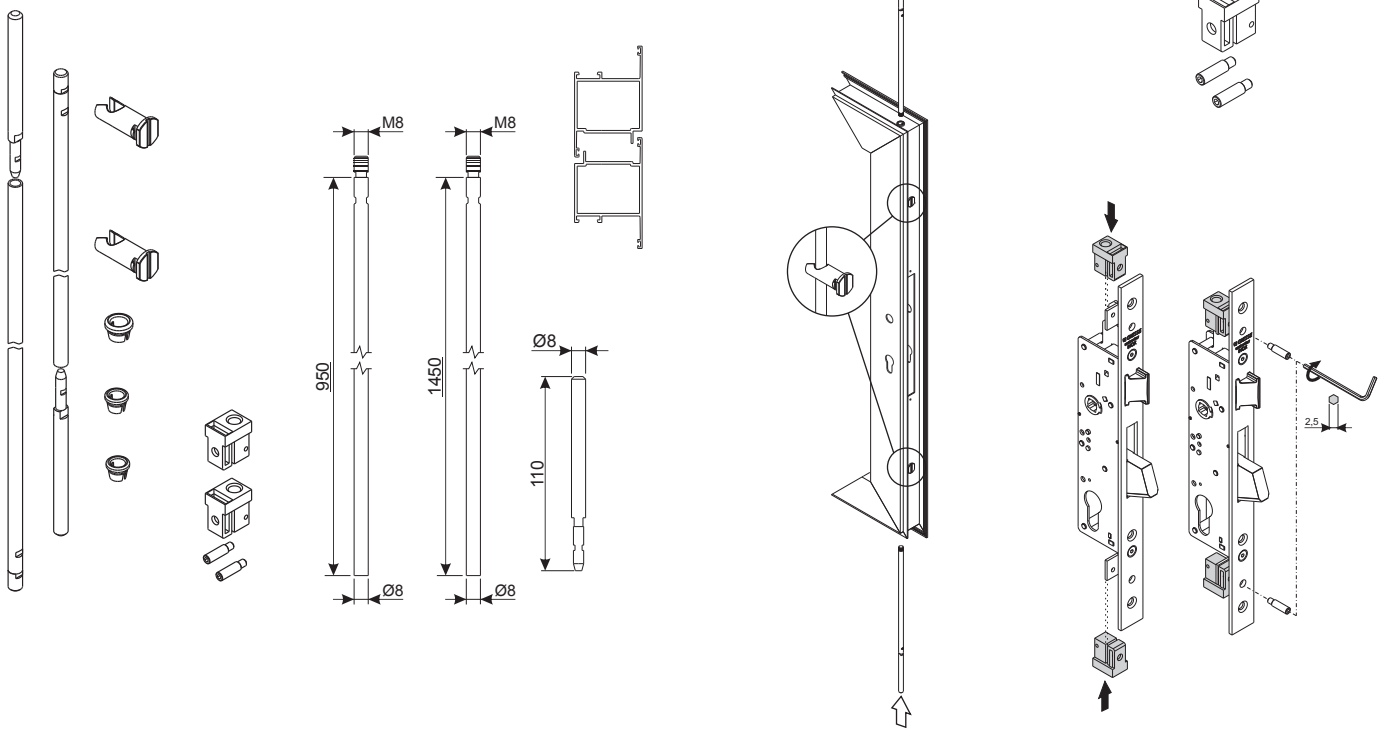
Functions
Internal rod kit for central locks designed for rod connection.

Online data sheet

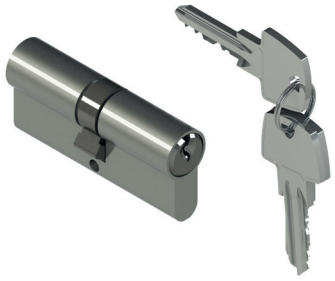
Technical Features
Kit of internal rods and specific adapters to fix the locks for top/bottom fastening mechanisms on door-type profiles (with or without a channel).
The internal rod kit comprises:
• a pair of rods of diameter 8 mm, to be cut to the desired length depending on the size of the door
• a pair of M8 threaded bolt tips to be assembled to the rods after cutting
• anti-noise bushings, rod guide clamps and bushing/striker to insert on the cross beam of the door frame
The rod kit is to be combined with the special adapters, to replace the ones supplied with the locks, which fixed with a grub screw to the top/bottom drives of the lock allow top and bottom locking.

Materials
Rods and bolt tips made of zinc plated steel
Bushes, rod guide clamps and bush/striker in polyamide
Zinc plated zamak adapters
M4 threaded pins in zinc plated steel

Internal rod adapters



Item code	Description	Compatible lock	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04642	INTERNAL ROD KIT FOR LOCKS	0462701-0462801	X				10
04643	INTERNAL ROD ADAPTER KIT	0462701-0462801	X				10



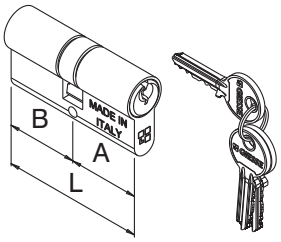
EUROPEAN PROFILE DOUBLE CYLINDER

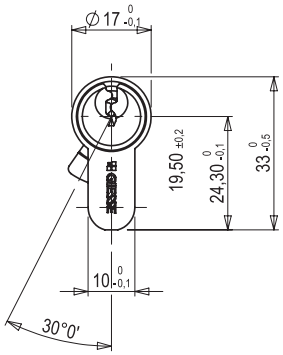
Functions
Double cylinder with European profile

Online data sheet

Technical Features
Double cylinder with European profile with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Zinc plated steel fixing screw





Item code	Description	L [mm]	A [mm]	B [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04469N	Double cylinder with European profile 35/35	70	35	35	X				10
04470N	Double cylinder with European profile 40/40	80	40	40	X				10
04471N	Double cylinder with European profile 35/45	80	35	45	X				10
04472N	Double cylinder with European profile 35/55	90	35	55	X				10
04473N	Double cylinder with European profile 30/70	100	30	70	X				10
04474N	Double cylinder with European profile 40/60	100	40	60	X				10
04490N	Double cylinder with European profile 30/30	60	30	30	X				10
04491N	Double cylinder with European profile 30/40	70	30	40	X				10
04492N	Double cylinder with European profile 30/45	75	30	45	X				10
04493N	Double cylinder with European profile 35/40	75	35	40	X				10
04494N	Double cylinder with European profile 30/50	80	30	50	X				10
04495N	Double cylinder with European profile 40/50	90	40	50	X				10
04652N	Double cylinder with European profile 30/55	85	30	55	X				10
04653N	Double cylinder with European profile 30/60	90	30	60	X				10
04654N	Double cylinder with European profile 30/65	95	30	65	X				10
05988	Cilindro doble de perfil europeo 30/75	105	30	75	X				10
05999	Double cylinder with European profile 96/48	96	48	48	X				10
07675	Double cylinder with European profile 27/27	54	27	27	X				10
07680	Double cylinder with European profile 31/31	62	31	31	X				10
07681	Double cylinder with European profile 27/37	64	27	37	X				10
07682	Double cylinder with European profile 35/35	70	35	35	X				10
07683	Double cylinder with European profile 31/41	72	31	41	X				10
07684	Double cylinder with European profile 41/41	82	41	41	X				10
07685	Double cylinder with European profile 31/51	82	31	51	X				10
07687	Double cylinder with European profile 31/61	92	31	61	X				10
07688	Double cylinder with European profile 51/41	92	51	41	X				10
07689	Double cylinder with European profile 31/91	122	31	91	X				10
07697	Double cylinder with European profile 55/55	110	55	55	X				10
07698	Double cylinder with European profile 37/37	74	37	37	X				10
07699	Double cylinder with European profile 37/47	84	37	47	X				10



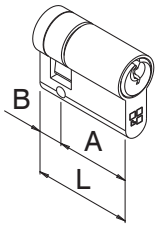
HALF CYLINDER EUROPEAN PROFILE

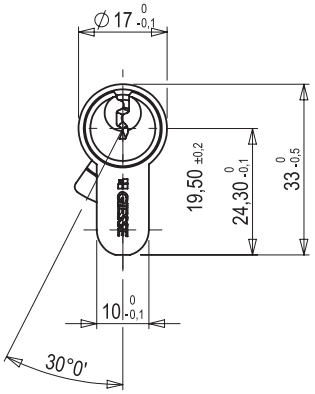
Functions
Half cylinder with European profile

Online data sheet

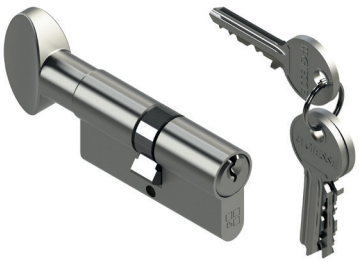
Technical Features
European profile half cylinder with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Zinc plated steel fixing screw





Item code	Description	L [mm]	A [mm]	B [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04496N	Half cylinder with European profile 30/10	40	30	10	X				10
04497N	Half cylinder with European profile 35/10	45	35	10	X				10
04498N	Half cylinder with European profile 40/10	50	40	10	X				10
04499N	Half cylinder with European profile 50/10	60	50	10	X				10
04500N	Half cylinder with European profile 60/10	70	60	10	X				10
05995	Half cylinder with European profile 45/10	55	45	10	X				10
05996	Half cylinder with European profile 55/10	65	55	10	X				10
07674	Half cylinder with European profile 27/10	37	27	10	X				10
07686	Half cylinder with European profile 31/10	41	31	10	X				10
07696	Half cylinder with European profile 61/10	71	61	10	X				10



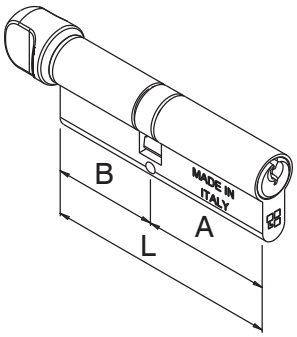
EUROPEAN PROFILE CYLINDER WITH KNOB

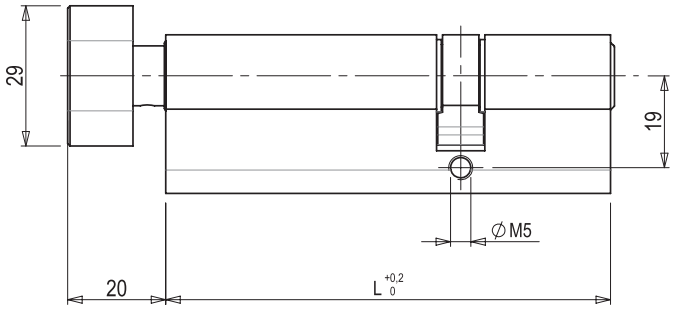
Functions
European profile cylinder with knob.

Online data sheet

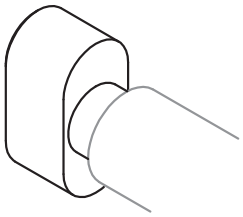
Technical Features
European profile cylinder with knob with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Nickel-plated brass knob
Zinc plated steel fixing screw

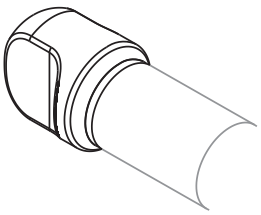




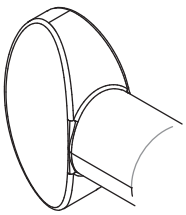
Knob type 1



Knob type 2



Knob type 3



DOOR CYLINDERS

Item code	Description	L [mm]	A [mm]	B (knob side) [mm]	Knob type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04462N	European profile cylinder with knob 40/30	70	40	30	1	X				10
04463N	European profile cylinder with knob 35/35	70	35	35	1	X				10
04464N	European profile cylinder with knob 30/40	70	30	40	1	X				10
04465N	European profile cylinder with knob 50/30	80	50	30	1	X				10
04466N	European profile cylinder with knob 40/40	80	40	40	1	X				10
04467N	European profile cylinder with knob 60/30	90	60	30	1	X				8
04607N	European profile cylinder with knob 30/30	60	30	30	1	X				10
04633	European profile cylinder with knob 51/41	92	51	41	2	X				10
04634	European profile cylinder with knob 30/30	62	31	31	2	X				10
04636	European profile cylinder with knob 30/30	92	31	61	2	X				10
04647	European profile cylinder with knob 30/30	92	61	31	3	X				10
04665N	European profile cylinder with knob 30/60	90	30	60	1	X				8
05979	European profile cylinder with knob 45/30	75	45	30	1	X				10
05980	European profile cylinder with knob 30/45	75	30	45	1	X				10
05981	European profile cylinder with knob 30/50	80	30	50	1	X				10
05982	European profile cylinder with knob 55/30	85	55	30	1	X				10
05983	European profile cylinder with knob 30/55	85	30	55	1	X				10
05984	European profile cylinder with knob 35/60	95	35	60	1	X				10
05985	European profile cylinder with knob 70/30	100	70	30	1	X				10
05986	European profile cylinder with knob 65/45	110	65	45	1	X				10
05987	European profile cylinder with knob 30/65	95	30	65	1	X				10
05989	European profile cylinder with knob 65/30	95	65	30	1	X				10
05993	European profile cylinder with knob 30/70	100	30	70	1	X				10
05997	European profile cylinder with knob 30/75	100	30	75	1	X				10
05998	European profile cylinder with knob 75/30	100	75	30	1	X				10
07678	European profile cylinder with knob 30/30	122	31	91	2	X				10
07679	European profile cylinder with knob 30/30	122	91	31	2	X				10

HALF CYLINDER WITH KNOB

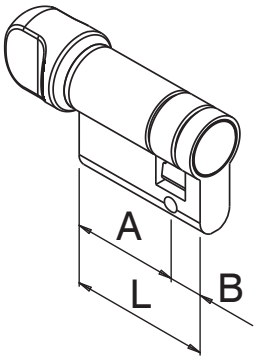


Functions
European profile half cylinder with knob.

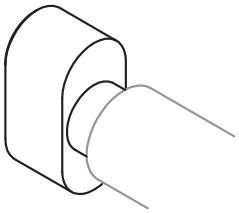
Online data sheet

Technical Features
European profile half cylinder with knob with 5-pin coding system.
Projecting DIN cam.
Stack 0.5 mm.
The product is supplied with a set of 3 keys in a ring and countersunk flat head fixing screw.

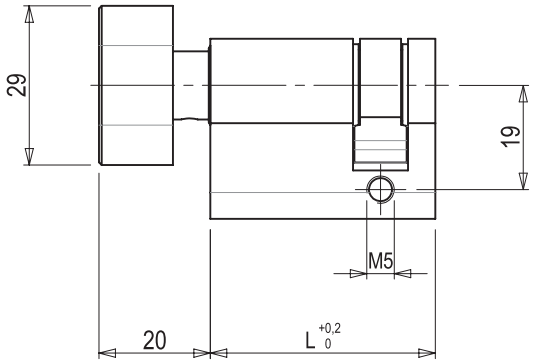
Materials
Cylinder body in nickel-plated brass
Nickel-plated brass cylinder
DIN cam in sintered steel
Pins and counter-pins in brass
Springs in stainless steel
Nickel-plated brass key
Nickel-plated brass knob
Zinc plated steel fixing screw



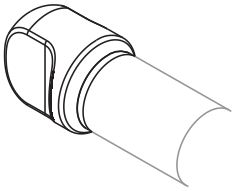
Knob type 1



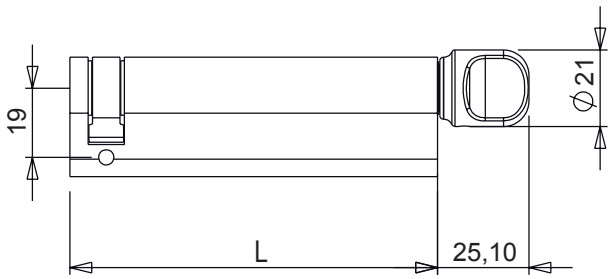
Knob type 1 overall dimensions



Knob type 2



Knob type 2 overall dimensions



DOOR CYLINDERS

Item code	Description	L [mm]	A (knob side) [mm]	B [mm]	Knob type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04635	Half cylinder with knob 31/10	41	31	10	2	X				10
04638	Half cylinder with knob 61/10	71	61	10	2	X				10
04666N	Half cylinder with knob 50/10	60	50	10	1	X				10
04667N	Half cylinder with knob 60/10	70	60	10	1	X				1
05990	Half cylinder with knob 40/10	50	40	10	1	X				10
05991	Half cylinder with knob 45/10	55	45	10	1	X				10
05992	Half cylinder with knob 55/10	65	55	10	1	X				10
07676	Half cylinder with knob 71/10	81	71	10	2	X				10



BRASS WINDOW HANDLES

Functions

Reversible window handle for operating the M90 two-way and M180 one-way mechanisms on side-hung and tilt-and-turn windows.

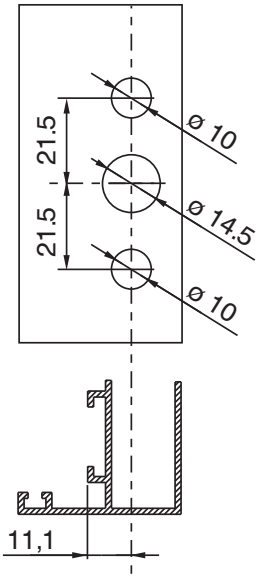
Online data sheet

Technical Features

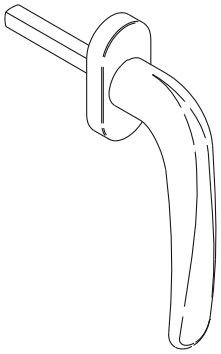
It is equipped with a positioner for stopping the rotation at 90° and 180° and has a square pin, for the transmission of the movement, size 7 mm with a stand-out of 40 mm.
The pull handle is hot forged, starting from a brass bar, with particular care that makes for excellent results.
The processes of cleaning, polishing and burnishing enhance the aesthetic characteristics of the brass, while the subsequent transparent, high-resistance painting ensures its durability.

Materials

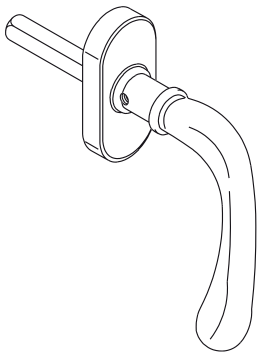
Handle, cover and rotor in brass
Square spindle and plate in zinc plated steel



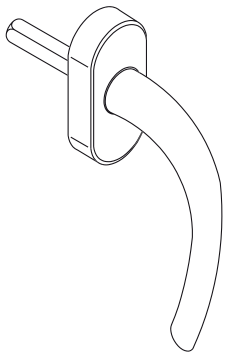
Prima window handle



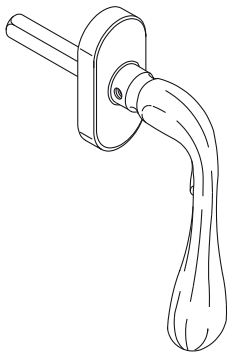
Letizia window handle

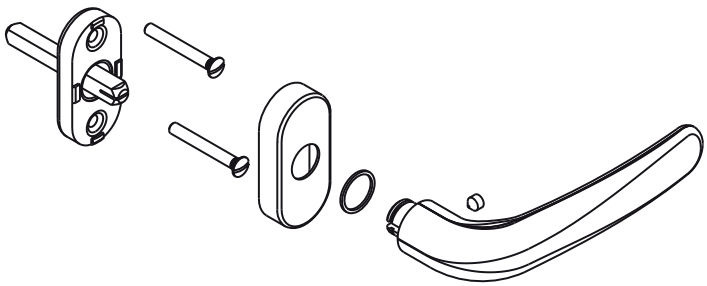


Martina window handle



Margherita window handle





Item code	Description	PROFILE CROSS - SECTION	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02481N	PRIMA WINDOW HANDLE	C001-C002-C007-C017-P002-P006-P007	square pin 7x40 mm				X	4
02482N	PRIMA WINDOW HANDLE	C001-C002-C007-C017-P002-P006-P007	square pin 7x70 mm				X	4
02483	TREND WINDOW HANDLE	-	EVODESIGN				X	5
02522N	MARTINA WINDOW HANDLE	C001-C002-C007-C017-P002-P006-P007					X	4
02542N	MARGHERITA WINDOW HANDLE	C001-C002-C007-C017-P002-P006-P007					X	4
02560N	LETIZIA WINDOW HANDLE	C001-C002-C007-C017-P002-P006-P007					X	4



BRASS HANDLES

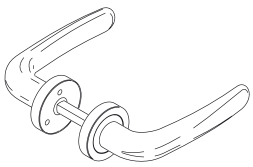
Functions
Pair of handles, with stop device, reversible, for fitting on the upright or centre rail of the door.

Online data sheet

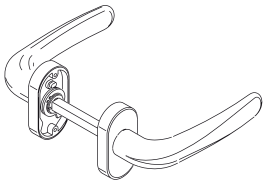
Technical Features
To guarantee the horizontal position of the handle, the pull handle is equipped with a return coil spring.
The plate cover is screwed onto the plate, while final tightening is done with an Allen screw on the handle that packs everything together.
The pull handle is hot forged, starting from a brass bar, with particular care that makes for excellent results.
The processes of cleaning, polishing and burnishing enhance the aesthetic characteristics of the brass, while the subsequent transparent, high-resistance painting ensures its durability.

Materials
Handle and case cover in brass
Spring in harmonic steel
Square spindle, screws and Allen screw in zinc plated steel

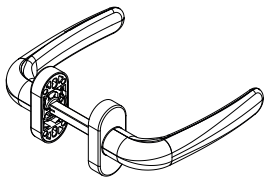
Round rosette
Prima handle



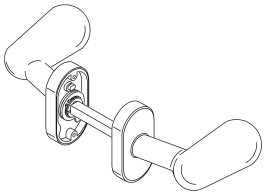
Oval rosette
Prima handle



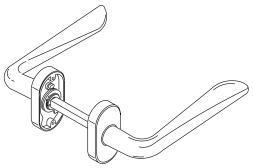
Oval rosette
Marina handle



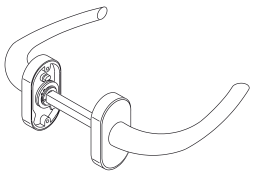
Golf knob



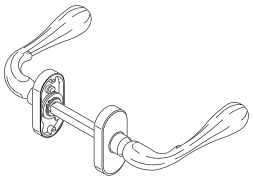
Oval rosette
Simona handle



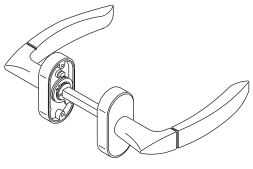
Oval rosette
Martina handle



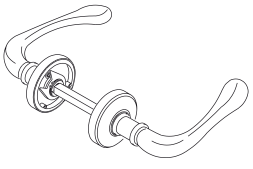
Oval rosette
Margherita handle



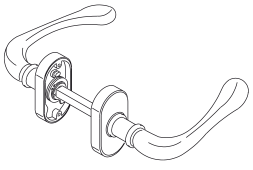
Oval rosette
Alba handle



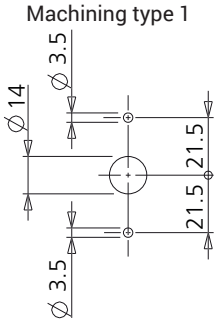
Round rosette
Letizia handle



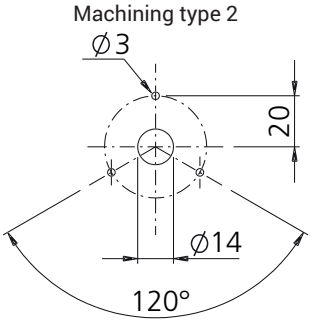
Oval rosette
Letizia handle



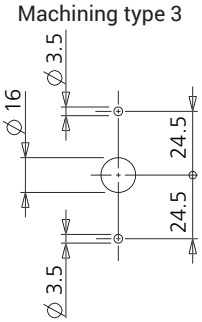
Machining type 1



Machining type 2



Machining type 3



Item code	Description	Machining	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02473N	OVAL ROSETTE BRASS PRIMA HANDLE-CP	3				X	2
02474N	ROUND ROSETTE BRASS PRIMA HANDLE-CP	2				X	2
02487	OVAL ROSETTE TREND HANDLE	1				X	5
02505	BRASS GOLF KNOB-CP	3				X	2
02518N	BRASS SIMONA HANDLE-CP	3				X	2
02521N	OVAL ROSETTE BRASS MARTINA HANDLE-CP	3				X	2
02541N	OVAL ROSETTE BRASS MARGHERITA HANDLE-CP	3				X	2
02553N	OVAL ROSETTE BRASS ALBA HANDLE-CP	3				X	2
02558N	ROUND ROSETTE BRASS LETIZIA HANDLE-CP	2				X	2
02559N	OVAL ROSETTE BRASS LETIZIA HANDLE-CP	3				X	2



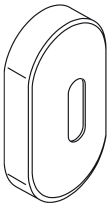
BRASS PLATES

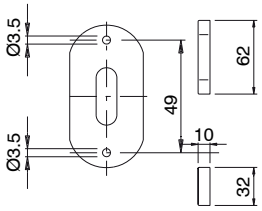
Functions

Round cylinder cover plates in brass for European profile cylinder and Patent cylinder.

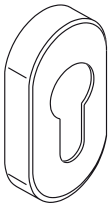
Online data sheet

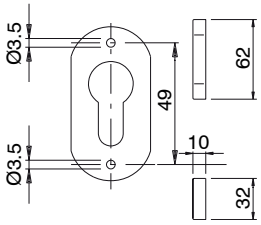
Art. 02543



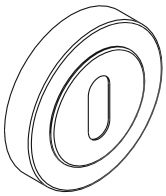


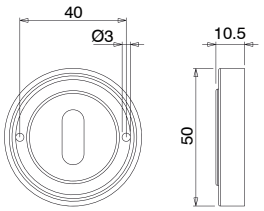
Art. 02544



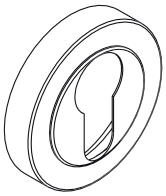


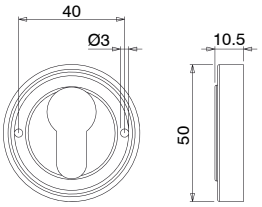
Art. 02545



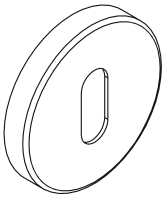


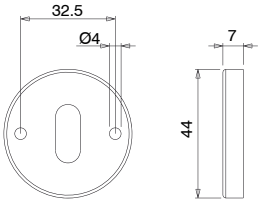
Art. 02546



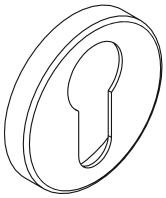


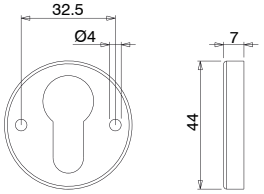
Art. 02547





Art. 02548





Item code	Description	Materials	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02543	BRASS OVAL ROSETTE-CP	Polyamide plate and brass cover				X	10
02544	BRASS OVAL ROSETTE-CP	Polyamide plate and brass cover	X			X	10
02545	BRASS ROUND ROSETTE-CP	Brass plate and cover				X	10
02546	BRASS ROUND ROSETTE-CP	Brass plate and cover				X	10
02547	BRASS ROUND ROSETTE-CP	Polyamide plate and brass cover				X	10
02548	BRASS ROUND ROSETTE-CP	Polyamide plate and brass cover				X	10

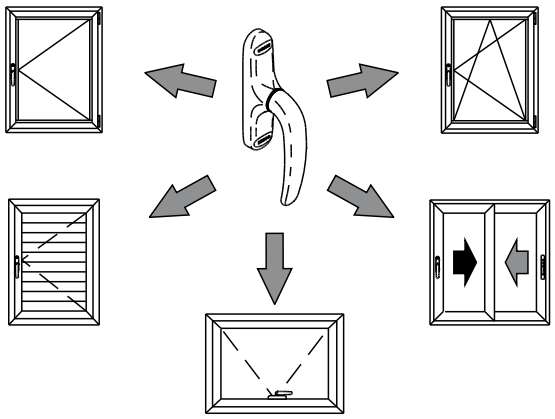
UNICA SYSTEM

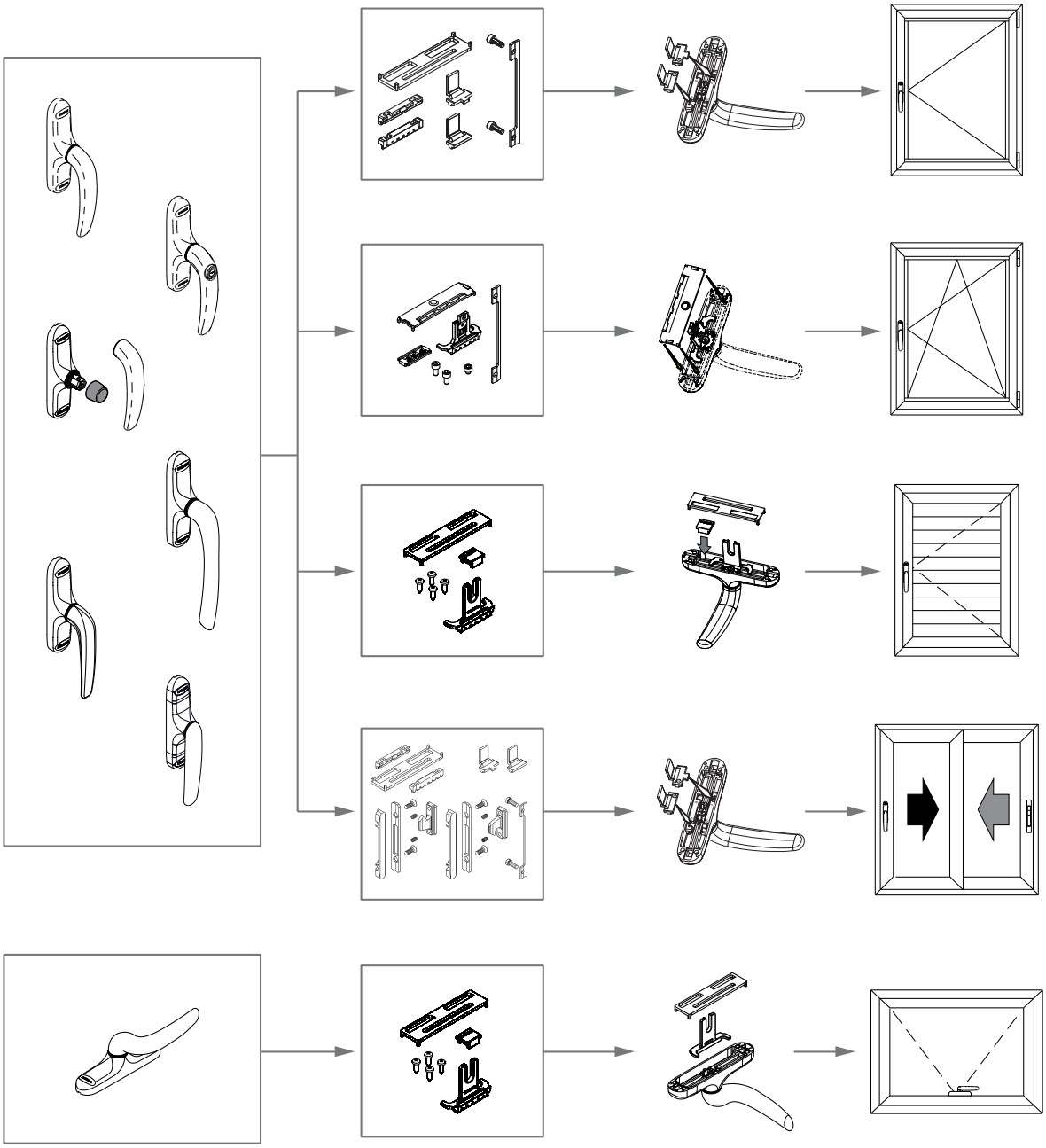
Functions

Complete system of mechanisms for operating inward and outward opening casement windows, shutters, tilt-and-turn, sliding and top-hung windows.

Technical Features

The system features a mechanism supplied without internal components.
Based on the requirements, using the completion kit, it becomes a one-way or two-way Cremone.
The kit, in its turn, can be completed with locking elements.







UNICA SYSTEM CREMONE

Functions

Cremone with no internal components.
Depending on need, it can be transformed into a Cremone for inward opening, outward opening casement or tilt-and-turn by using the specific kits (also supplied complete with the lock points).

Online data sheet

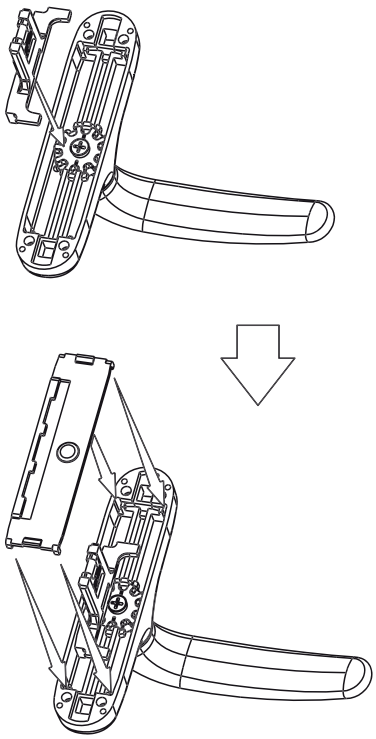
Technical Features

The UNICA cremone mechanism is available in different versions and is supplied without the internal parts. The procedure for mounting them, contained in the customization kit, is for the window maker, but is quick and straightforward.
All Unica cremones have a fixing C/C distance of 104 mm.

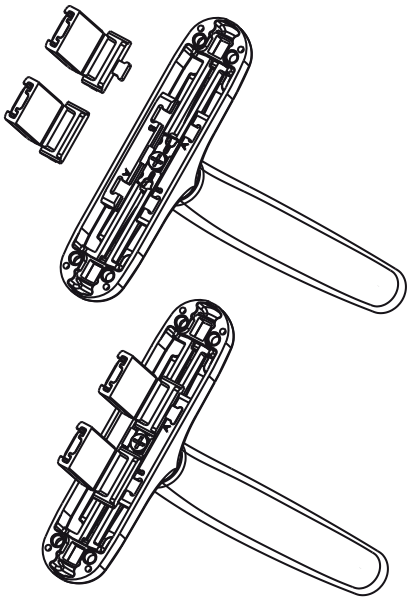
Materials

Handle in die-cast aluminium
Cases and gear in die-cast zamak
Steel spring
Zinc plated steel screw
Shim in Hostaform

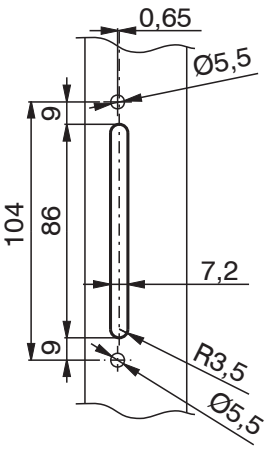
Example of mounting the tilt-and-turn window Cremone (01150N+04071N)



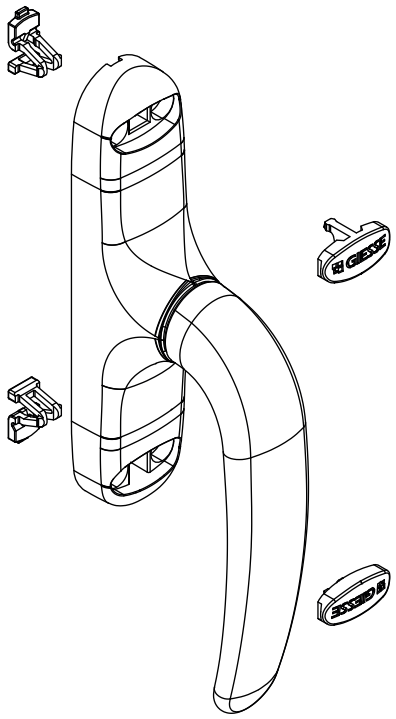
Example of mounting the Apex Cremone (01150N+02259)

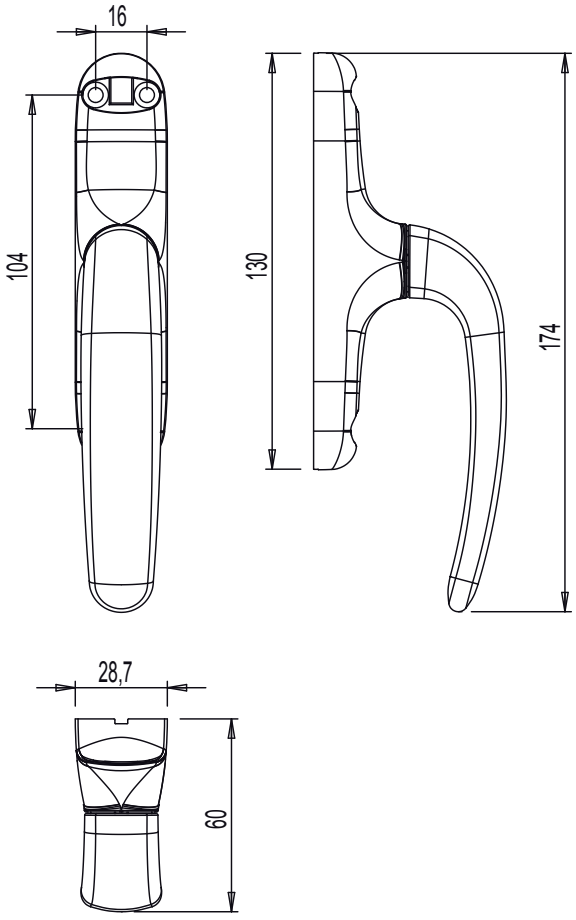


C/C distance machining 104 mm

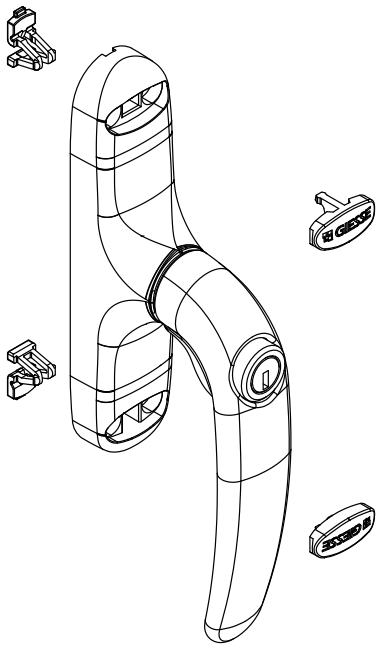


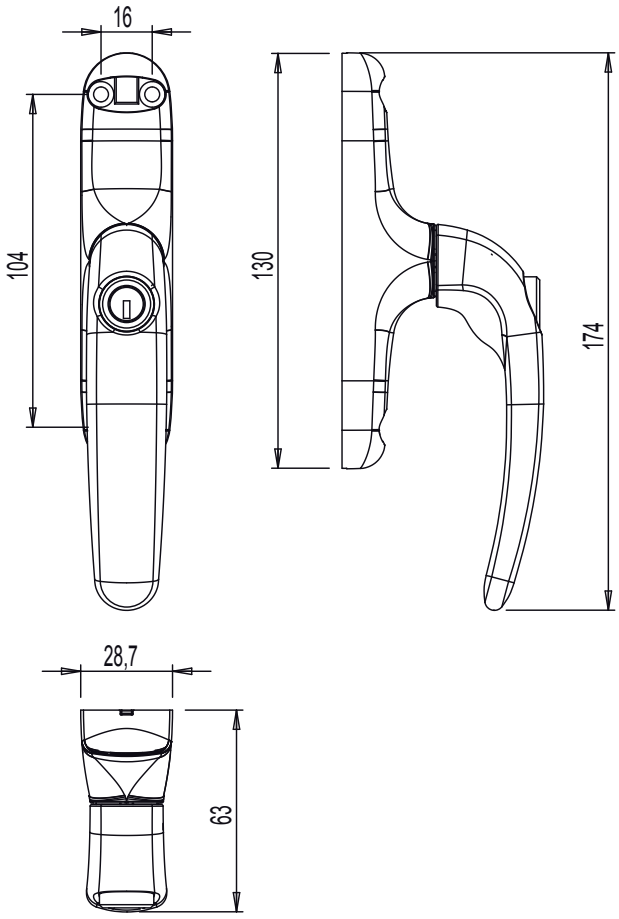
011500001



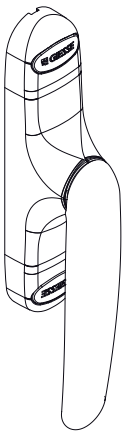


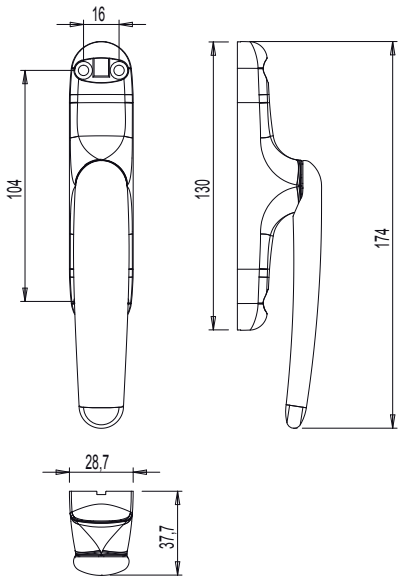
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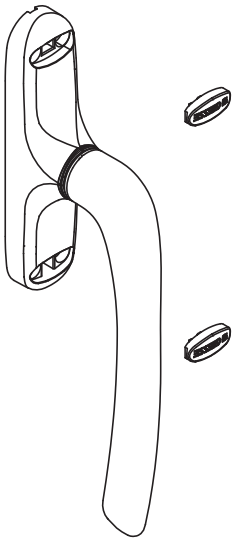


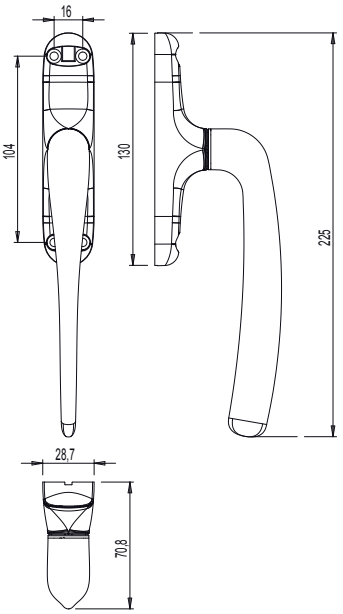
01230



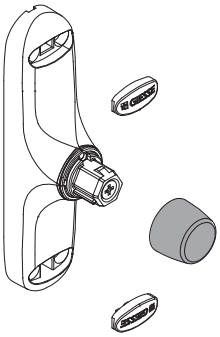


01125

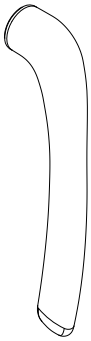


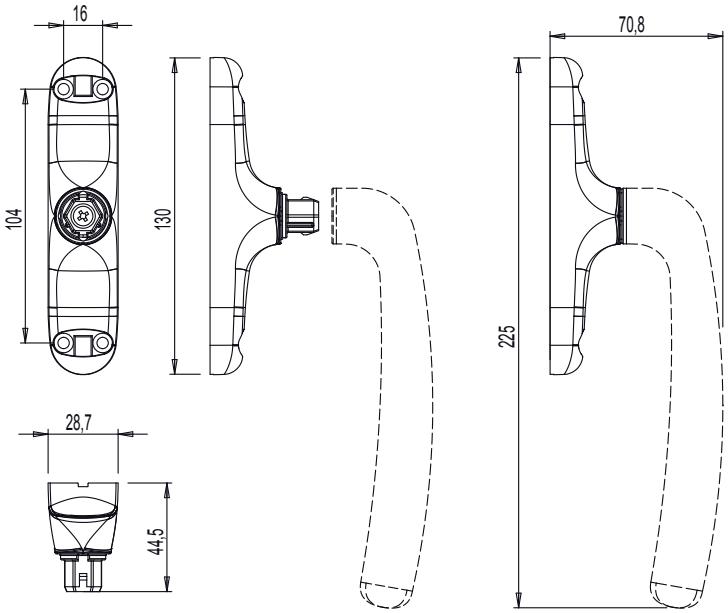


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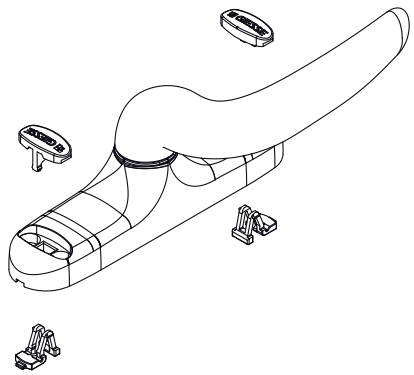


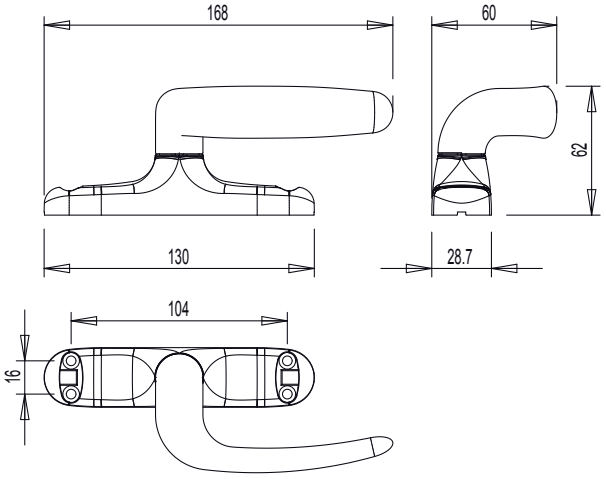
01129



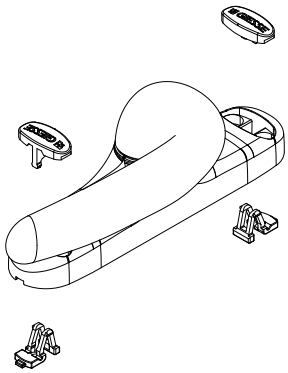


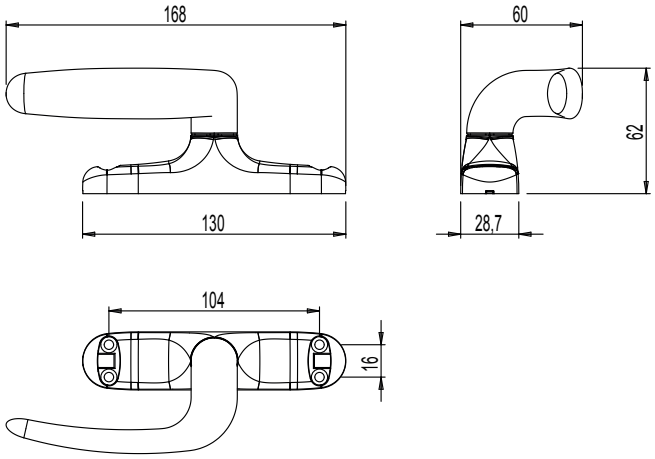
011691



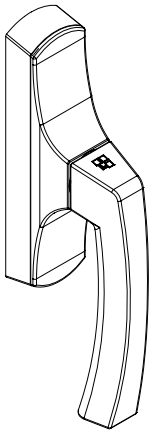


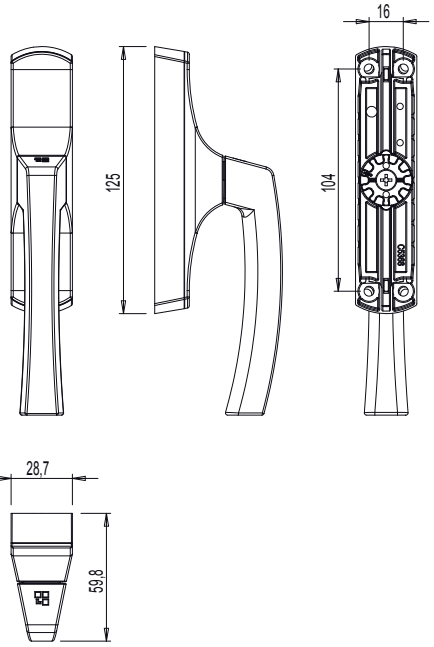
011692





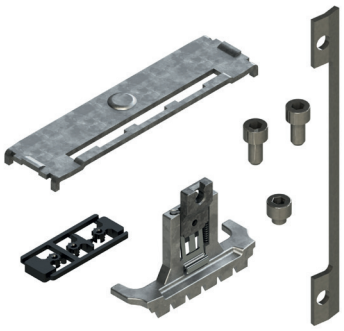
01063





UNICA SYSTEM

Item code	Description	PROFILE CROSS - SECTION	Hand	C/C distances	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01063	ASIA OUTWARD 0-180° CREMONE	C001-C007-P002		104 mm	X		X		10
01125001	UNICA SYS. CREMONE PULL HANDLE L=172	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm			X		10
01126	UNICA AWAY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm			X		10
01129	PULL HANDLE FOR UNICA - AWAY	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		-			X		10
01150001	UNICA SYSTEM CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	10
01151001	UNICA KEY CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	10
011691	UNICA OFFSET HANDLE CW2 CREMONE	-	Right	104 mm	X		X		5
011692	UNICA OFFSET HANDLE CW2 CREMONE	-	Left	104 mm	X		X		5
01230	UNICA CREMONE LOWERED HANDLE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010		104 mm	X		X	X	5



UNICA SYSTEM CREMONE KIT

Functions

Components that, added to the Unica Cremone without internal components, enable converting them into the finished product.

Online data sheet

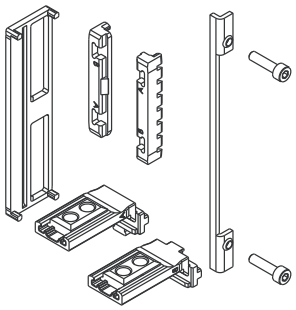
Technical Features

Completion kit that, in combination with the Unica mechanism, enables creating a finished cremone (sash, tilt-and-turn window, etc.). Composed of the internal components and any fixing components (screws and plate), it must be suitably mounted by the window maker.
After the assembly phase the cremone is ready to be installed.
The method of assembly of the kit is adequately explained in the fitting instructions.

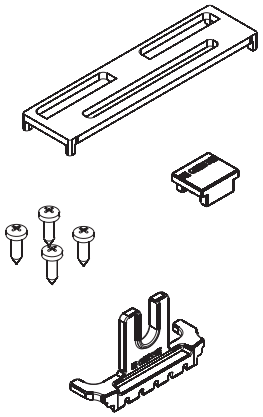
Materials

Black polyamide plate (zinc plated steel for tilt-and-turn window version)
Sliders and Racks in zinc plated die-cast zamak
Stainless steel screws and fixing plate

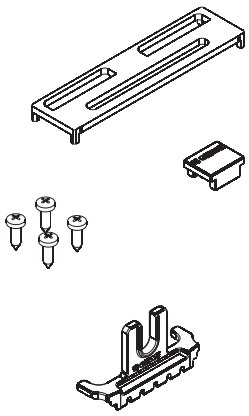
Art. 02259



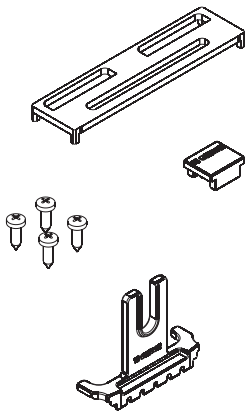
Art. 02403



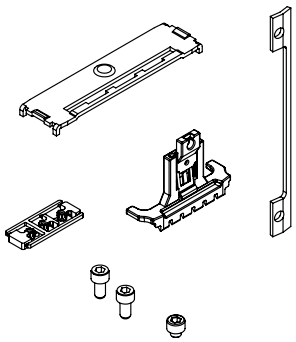
Art. 02407



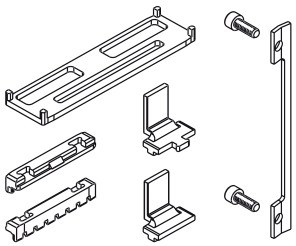
Art. 02408



Art. 04071N

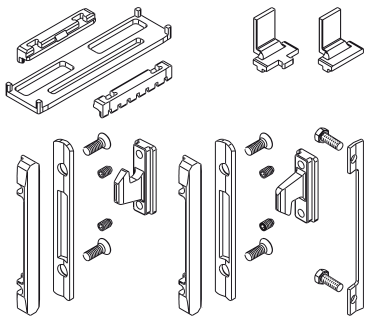


Art. 04080



UNICA SYSTEM

Item code	Description	PROFILE CROSS - SECTION	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02259	APEX KIT FOR UNICA CREMONE	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N	Two-way	closed	open		X				20
02403	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 28	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
02407	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 20	-	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
02408	KIT FOR OUT. OPENING UNICA SYSTEM SLIDER 35	C001-C003-C016	Outward Opening	01063 - 01125 - 01126 - 01150N - 01151N - 011691 - 011692	One-way	closed	open		X				50
04071N	UNICA SYSTEM TILT-AND-TURN WINDOW KIT	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	Tilt-and-turn window	01063 - 01125 - 01126 - 01150N - 01151N	One-way	closed	open	bottom-hung windows	X				50
04080	KIT FOR IN. OPENING UNICA SYSTEM	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	Sash	01063 - 01125 - 01126 - 01150N - 01151N	Two-way	closed	open		X				50



UNICA SYSTEM SLIDING KIT

Functions

Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of a sliding door or window.

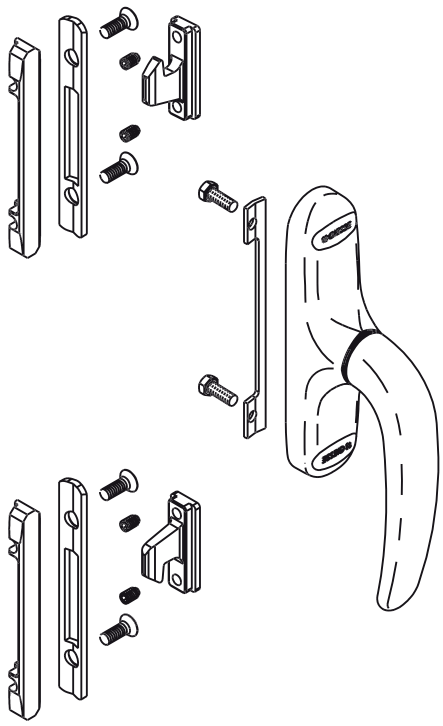
Online data sheet

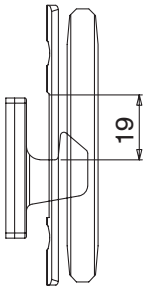
Technical Features

Using this kit allows you to convert the UNICA mechanism into a cremone for sliders.
Composed of the elements inside the Cremone (rack, sliders and plate) to be assembled easily by hand, all completed by the elements (2 nibs, 2 counter-plates and 2 shutters) needed to close the sash.

Materials

Polyamide plate
Sliders, racks, nibs and shutters in zinc plated zamak





Item code	Description	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03056	UNICA SYSTEM SLIDER KIT	Slider	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				25



UNICA SYSTEM OUTWARD OPENING KIT

Functions

Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of an outward-opening casement.

Online data sheet

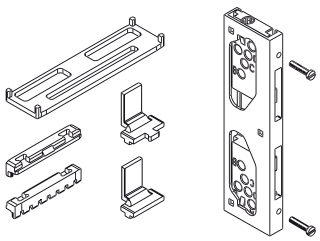
Technical Features

Using this kit allows you to convert the UNICA cremone mechanism into a cremone for outward opening casements.
Composed of the elements inside the Cremone (rack, sliders and plate) to be assembled easily by hand, all completed by the Outward Opening mechanism and in some cases by the fastening mechanisms (strikers and terminals).

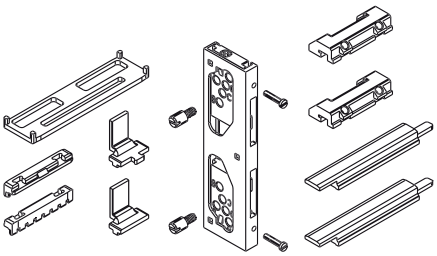
Materials

Black polyamide plate
Sliders and racks in zinc plated zamak
Zinc plated steel screws
Mechanism in extruded aluminium
Connecting block in black polyamide

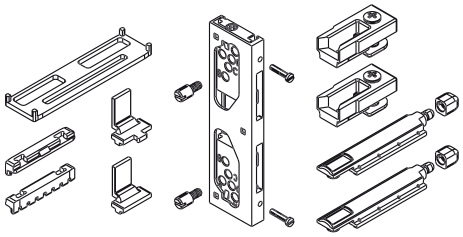
Art. 02237



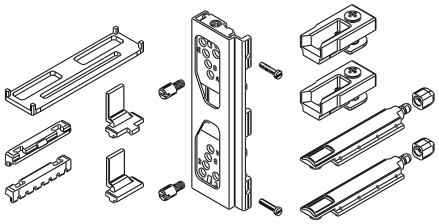
Art. 02238



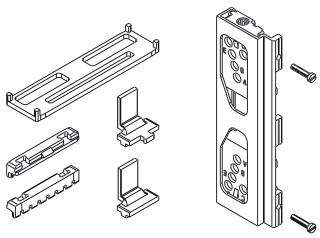
Art. 02240



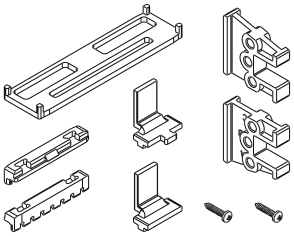
Art. 02241



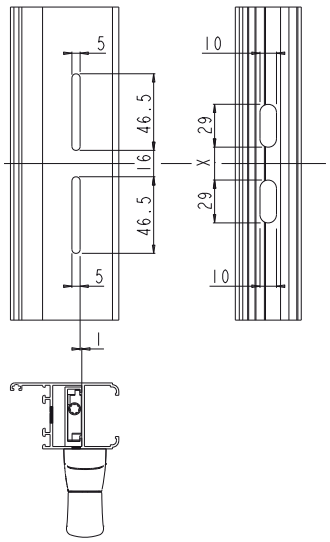
Art. 02243



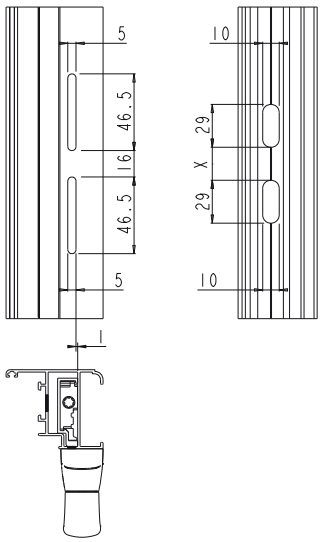
Art. 02244



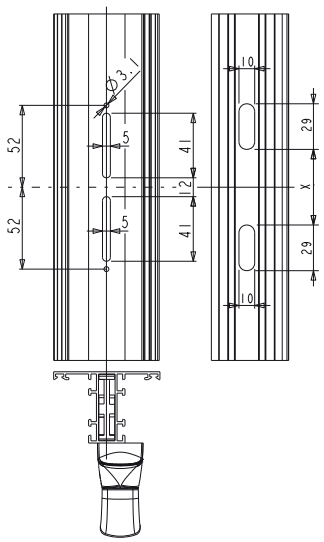
Machining type 1



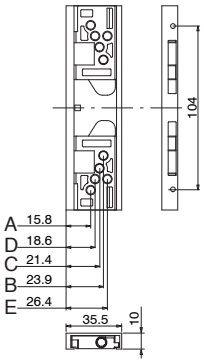
Machining type 2



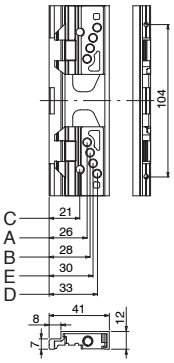
Machining type 3



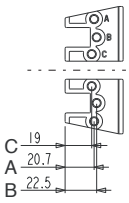
Type 1



Type 2



Type 3



Item code	Description	Type	Can be combined with	Machinings	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02237	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	1	Two-way	closed	open	X				50
02240	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	1	Two-way	closed	open	X				50
02241	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	2	Two-way	closed	open	X				50
02243	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126	2	Two-way	closed	open	X				50
02245	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126		Two-way	closed	open	X				20
02246	KIT FOR OUTWARD OPENING UNICA SYSTEM	Outward Opening	01063 - 01150N - 01151N - 01126		Two-way	closed	open	X				20



UNICA SYSTEM INWARD OPENING KIT

Functions

Kit to be combined with the UNICA and UNICA KEY cremones, composed of all the elements necessary to make the fastening mechanism of an inward-opening casement.

Online data sheet

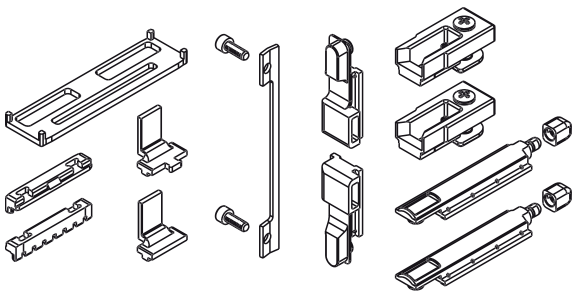
Technical Features

Using this kit allows you to convert the UNICA mechanism into a cremone for inward opening.
All this is complemented by the elements (2 blocks, 2 terminals and 2 strikers) needed to make the sash fastening mechanism.

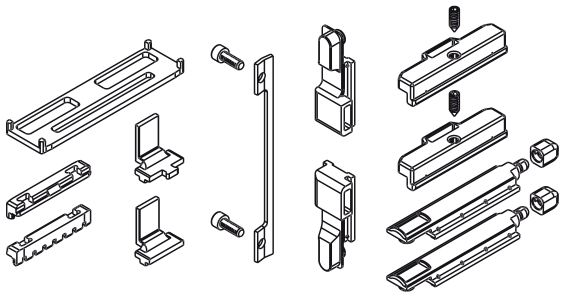
Materials

Plate, blocks, terminals and strikers in black polyamide
Sliders and racks in zinc plated zamak
Stainless steel screws

Art. 04070



Art. 0407601



Item code	Description	PROFILE CROSS - SECTION	Type	Can be combined with	Operation	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04070	KIT FOR INWARD OPENING UNICA SYSTEM	C001-C012-C013-C014-C015-C017	Sash	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				50
0407601	KIT FOR IN. OPENING UNICA SYSTEM	C009	Sash	01063 - 01150N - 01151N - 01126	Two-way	closed	open	X				50



TWIN CATCH

Functions

Device for closing bottom-hung windows for front mounting, it requires no machining on the profile.

Online data sheet

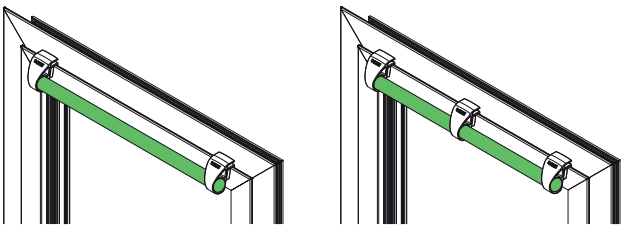
Technical Features

Quick fixing on the sash channel by means of contrast grubscrews.
The TWIN catch is compression adjustable on the seals.
A lever control is available for use in conjunction with the corresponding supports. The lever actuates the opening of the catch but it is not snap fitting on the base. This enables using it as if it were an away lever: to open the bottom-hung window you will need to insert the lever into place.
Once opened the lever can be extracted from the base.
The use of closing plugs, on bottom-hung windows with a number of TWIN catches connected together by a GIESSE antipanic bar, enables closing and simultaneously fixing the bar to the catches.

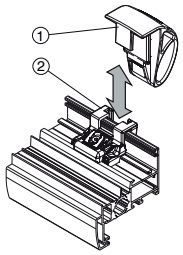
Materials

Coupling tooth and bottom recess in polyamide
Support for tooth and catch body in zamak
ABS/polycarbonate catch mechanism
Stainless steel screws, grub screws and spring
Polyamide caps

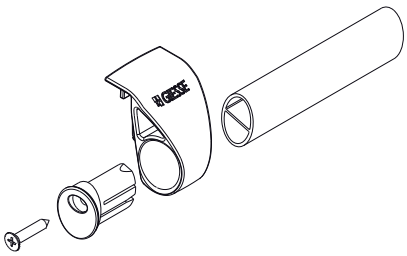
Bar application

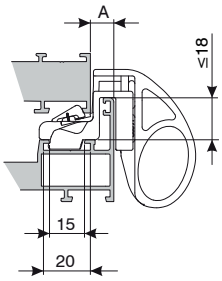


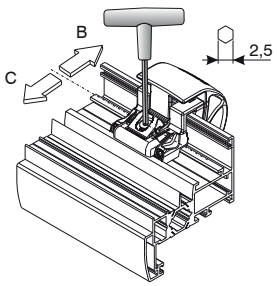
Lever Away (1) and support (2)



Bar-closing cap application







Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	Length (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01704	TWIN CATCH	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	7 ÷ 10 mm	+ 2.1 mm	+ 1.4 mm	-	X		X	X	40
0170601	TWIN CATCH	C007-C008	8 mm	+ 1.4 mm	+ 1.4 mm	-	X		X	X	40
0170801	AWAY LEVER TWIN	C001-C002-C003-C004-C005-C006-C007-C008-C012	-	-	-	-					5
02317	TWIN BAR CLOSING PLUG	C002-C017	-	-	-	-			X		10
07843	HANDLE BAR	-	-	-	-	950			X		1
07844	HANDLE BAR	-	-	-	-	1150			X		1
07845	HANDLE BAR	-	-	-	-	1450			X		1



GRISBI CATCH

Functions

Fastening mechanism of bottom-hung windows for external application, made of extruded aluminium with internal guide of polyamide

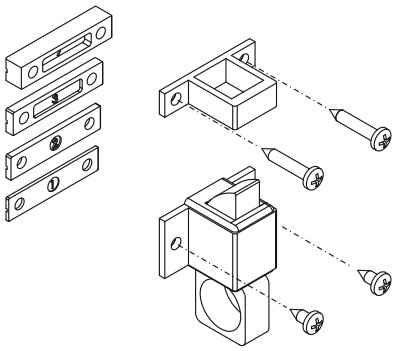
Online data sheet

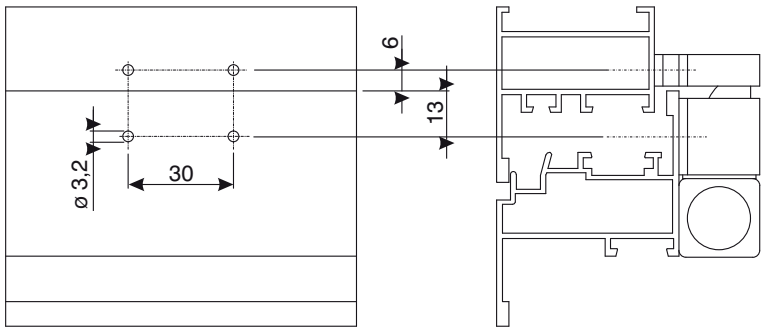
Technical Features

Fast mounting, it can be applied on all types of profile using the 4 polyamide shims alternately or in combination.
The combinations of the shims require using the catch in steps of (mm):
3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 -12 - 13
Note: For very thin thickness, it is recommended to decrease the diameter of the hole that receives the self-tapping screw.

Materials

Body, ring and counterplate in extruded aluminium
Shims and internal guide in polyamide
Zinc-nickel plated steel screws





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01701N	GRISBI CATCH	C001-C002-C003-C004-C005-C006-C007-C008-C009-C012	X	X	X		50



RIVO CATCH

Functions

Fastening mechanism of windows for external application, completely made of polyamide reinforced with fibreglass.

Online data sheet

Technical Features

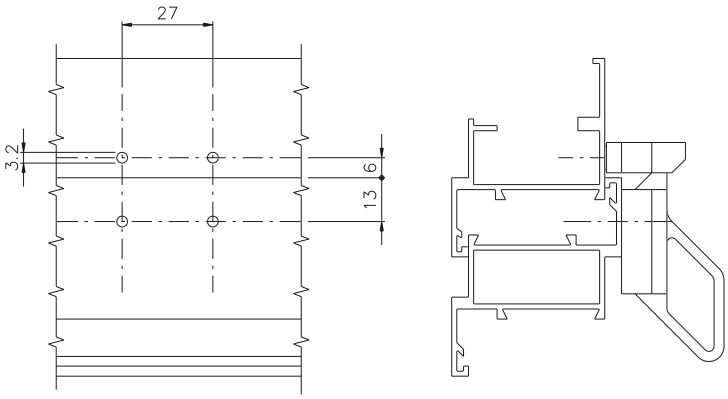
Fast assembly, it can be applied on all types of profile using the 3 polyamide shims alternately or in combination.
The combinations of the shims require using the catch in steps of 4.5 - 5.5 - 7 mm.

Materials

Body, drawer, counterplate and shims in polyamide
Zinc-nickel plated steel screws

Parts

4 Self-tapping screws 3.9x16
3 Polyamide shims



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01711	RIVO CATCH		X				50



BRAVO FLAT HANDLE - EURO LINE

Functions

Reversible lever handle for outdoor application for top-hung windows and pivoting windows. The BRAVO flat handle provides continuity for the EURO line also for top-hung and pivoting windows.

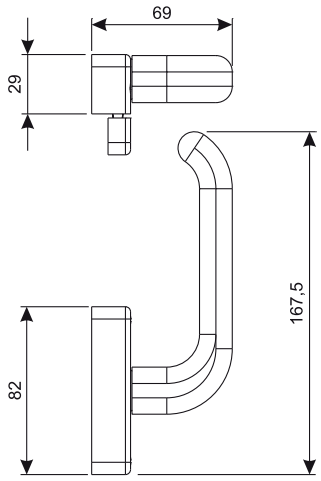
Online data sheet

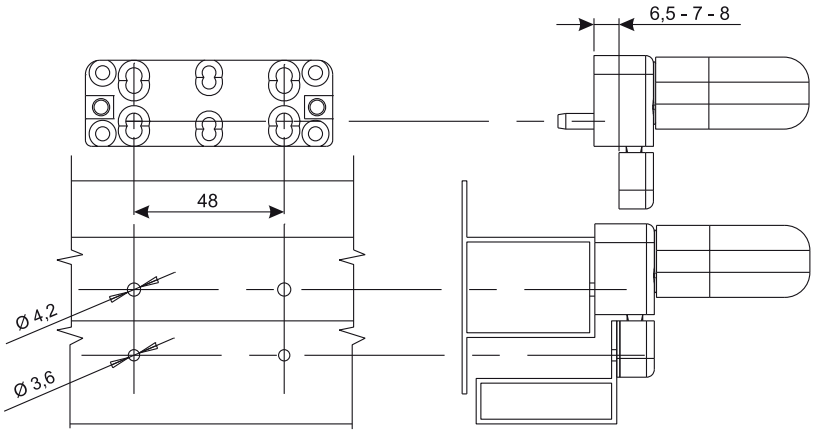
Technical Features

Specific for step 6.5-7-8 mm.
Side reversal possible by reversing the handle and the limit stop inside the case.
Reduced machining on the profiles.

Materials

Handle and case in painted die-cast aluminium
Die-cast zamak plate
Nib in white die-cast zinc plated Zamak
Zamak keeper plate
Black polyamide shims, bush and stop
Zinc plated steel plate and keeper plate fixing screws
Stainless steel case fixing screws





Item code	Description	Profile	Step (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01650N	BRAVO FLAT HANDLE-EURO LINE	Overlap	6,5 - 7 - 8	X		X		20
01651N	BRAVO FLAT HANDLE-EURO LINE	Overlap	4 - 5	X		X		20
01652N	BRAVO FLAT HANDLE-EURO LINE	Flush		X		X		20

BRAVO FLAT HANDLE - PRIMA LINE



Functions

Reversible lever handle for outdoor application for top-hung windows and pivoting windows. The BRAVO flat handle provides continuity for the PRIMA line also for top-hung and pivoting windows.

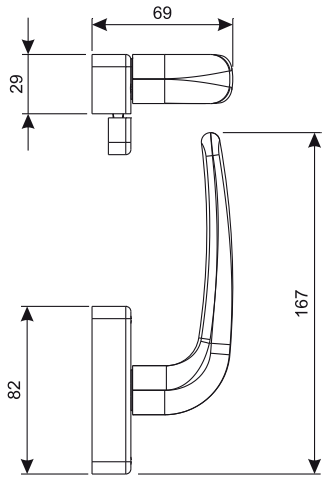
Online data sheet

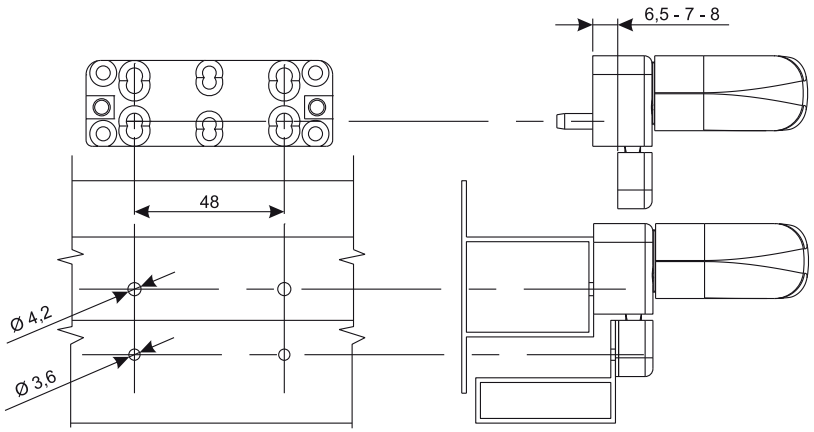
Technical Features

Specific for step 6.5-7-8 mm.
Side reversal possible by reversing the handle and the limit stop inside the case.
Reduced machining on the profiles.

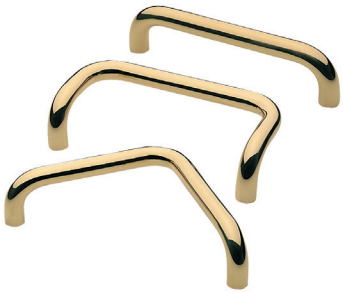
Materials

Handle and case in painted die-cast aluminium
Die-cast zamak plate
Nib in white die-cast zinc plated Zamak
Zamak keeper plate
Black polyamide shims, bush and stop
Zinc plated steel plate and keeper plate fixing screws
Stainless steel case fixing screws





Item code	Description	Profile	Step (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01640N	BRAVO FLAT HANDLE-PRIMA LINE	Overlap	6,5 - 7 - 8	X		X		20
01641N	BRAVO FLAT HANDLE-PRIMA LINE	Overlap	4 - 5	X		X		20
01642N	BRAVO FLAT HANDLE-PRIMA LINE	Flush		X		X		20



BRASS HANDLES

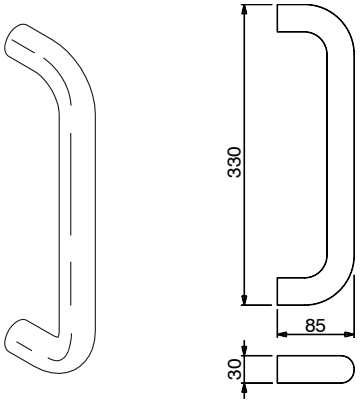
Functions
Straight tubular brass handle to be applied on aluminium doors.

Online data sheet

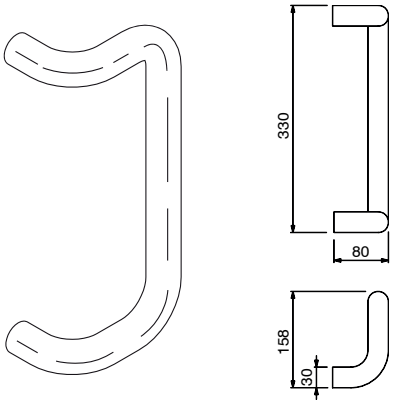
Technical Features
Thick brass tubular handle with a thick transparent electrostatic coating, fired at 150°.
The handle is fixed with the special connections art. 02668 – 02669 –02670 depending on the machining on the door or the number of handles to be fitted (single or pair).
Fixing to the connections is done with pins for external applications or grub screws for internal applications.
The handle can be mounted subsequently on site simply by inserting two pins, thus avoiding any damage during transportation or when installing the door.
Supplied with the handle there are two fixing grub screws.

Materials
Brass handle
Zinc plated steel grub screws

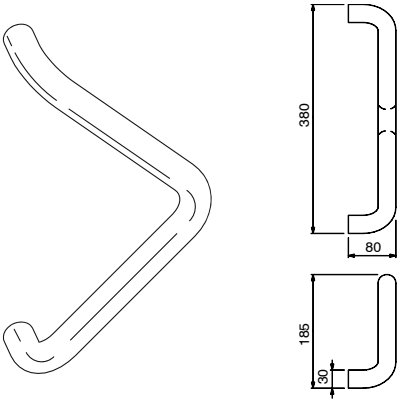
Straight brass handle

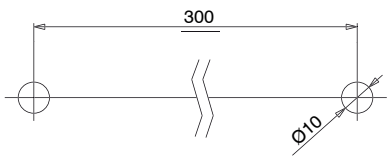


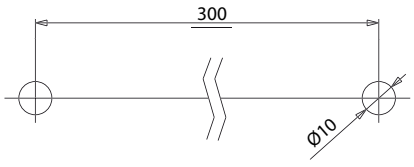
Double curved brass handle

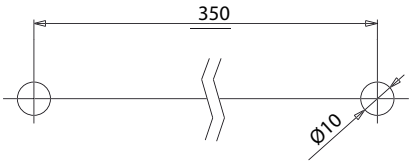


Brass elbow handle









Item code	Description	C/C distance for drilling [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02609	BIKE STRAIGHT brass HANDLE	300			X	X	2
02610	BIKE DOUBLE CURVED brass HANDLE	300			X	X	2
02611	BIKE brass ELBOW HANDLE	350			X	X	2



NYLON HANDLES

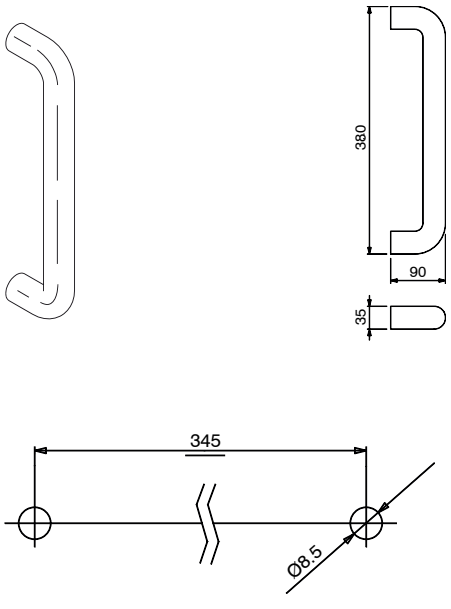
Functions
Tubular polyamide handle to be applied on aluminium doors.

Online data sheet

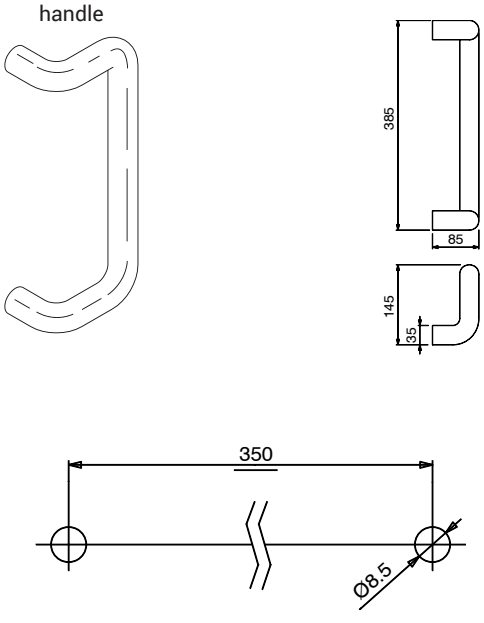
Technical Features
Tubular handle made of high density polyamide of coloured granules in a mix that provide unlimited durability over time. Available in straight and double curved versions.
The BIKE handle has a high resistance to abrasion and wear, it is unalterable under temperature changes and is weather resistant.
The handle is fixed with the special connections art. 02668 – 02669 –02670 depending on the machining on the door or the number of handles to be fitted (single or pair). The fitting instructions can be used as a template for doing the machining.
Fixing to the connections is done with pins for external applications or grub screws for internal applications.
The handle can be mounted subsequently on site simply by inserting two pins, thus avoiding any damage during transportation or when installing the door.
The handle is supplied with 5 mm shims for mounting to profiles with a step.

Materials
Polyamide handle
Washers and shims in polyamide

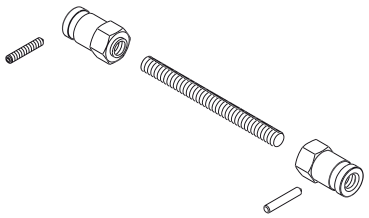
Straight polyamide handle



Double curved polyamide handle



Item code	Description	C/C distance for drilling [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02603	BIKE STRAIGHT polyamide HANDLE	345	X				2
02604	BIKE DOUBLE CURVED polyamide HANDLE	350	X				2



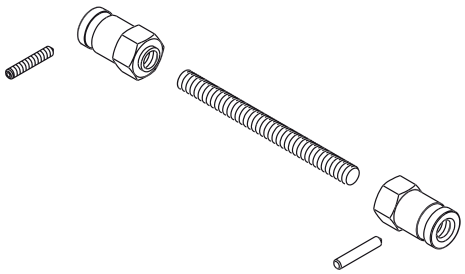
FIXING COMPONENTS FOR HANDLES

Functions
Kit of parts for fixing a pair of BIKE handles on an aluminium door.

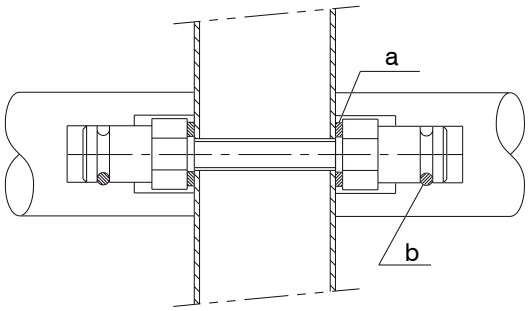
Online data sheet

Technical features
The kit is fixed via two simple 8.5 mm through-holes at a distance equivalent to the C/C distance of the chosen handle.
From inside the BIKE handle is fixed to the connection with the grub screw.
This makes it possible to disassemble the handle for maintenance purposes.
The fixing kit enables mounting either polyamide or brass BIKE handles.

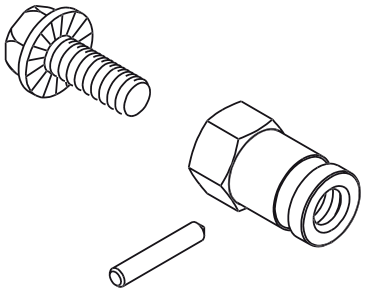
Art. 02668



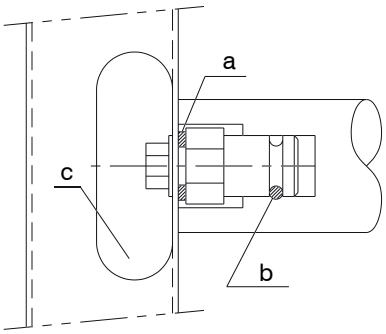
a) polyamide washer
b) pin or grub screw



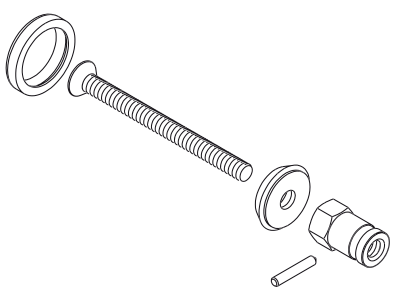
Art. 02669



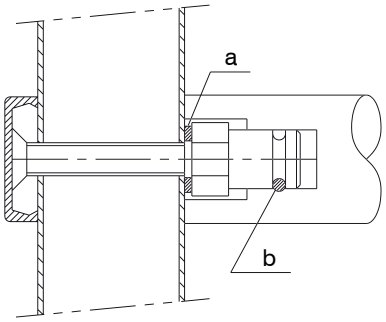
a) polyamide washer
b) pin or grub screw - c) side machining



Art: 02670



a) polyamide washer
b) pin or grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02668	DOUBLE ALUMINIUM FIXING KIT	EVODESIGN	X				10
02669	SINGLE ALUMINIUM FIXING KIT	EVODESIGN	X				10
02670	SINGLE ALUMINIUM FIXING KIT	EVODESIGN	X				10

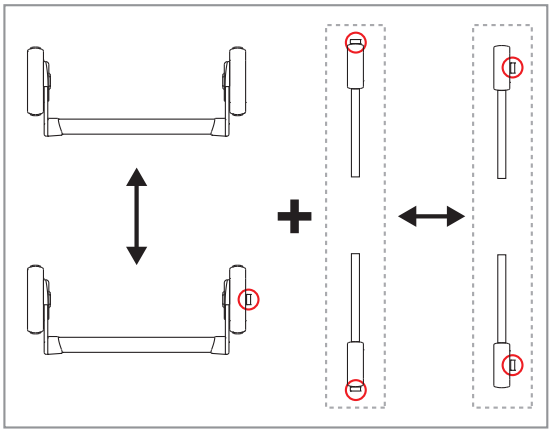


PANIC EXIT DEVICE AP001

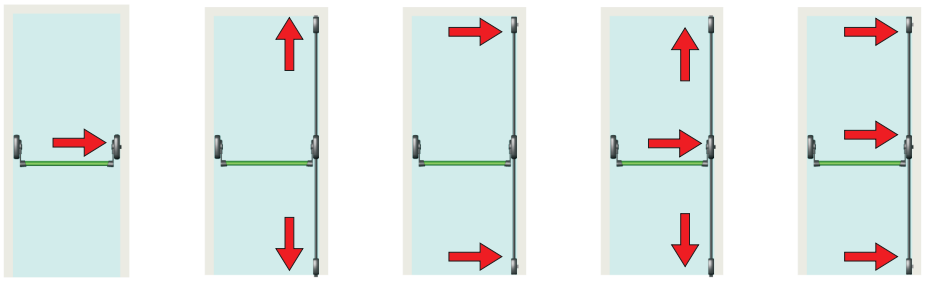
Functions
PUSH-BAR type of panic exit device for surface mounting.

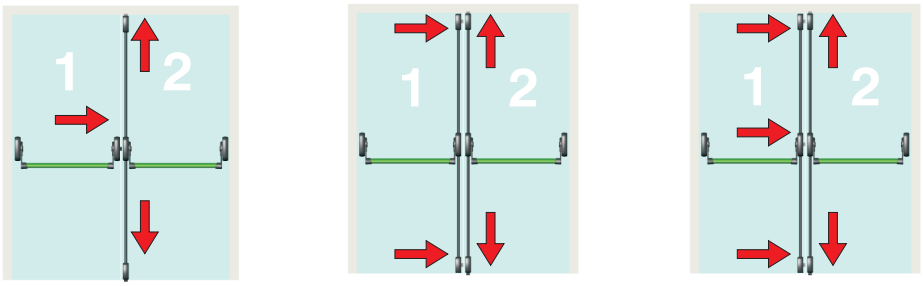
Technical Features
The AP001 system is available in 3 versions:
• LATERAL (1 LOCKING POINT)
• TOP/BOTTOM
• MODULAR (3 LOCKING POINTS)
AP001 is to be coupled with the oval push-bar, sold separately, available in three different widths and additional locking mechanisms (top/bottom and lateral version).
The handle is easily reversible: rotation of the bracket allows its application on right-hand and left-hand doors, without any additional operation.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.
AP001 is ideal for use on fire doors when paired with accessories that are specific for this use

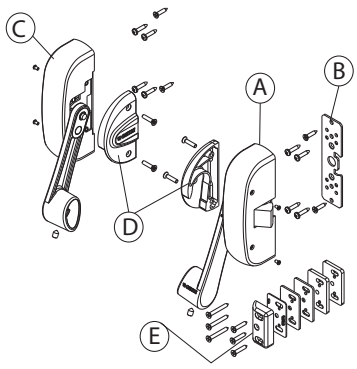
Certifications
The AP001 system is certified to UNI EN 1125:2008 standards and approved for CE marking, with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C



Configurations







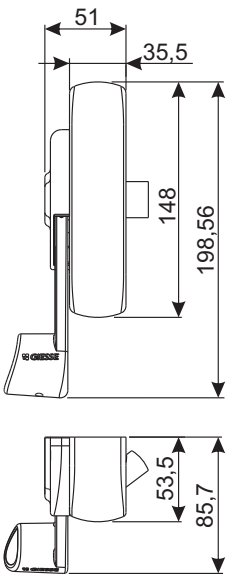
AP001 LATERAL

Functions
PUSH-BAR type of panic exit device for surface mounting.

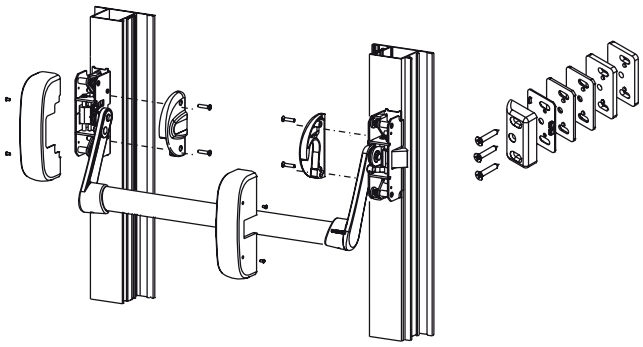
Online data sheet

Technical Features
The lateral version AP001 system consists of:
• The main reversible mechanism (A) with a lateral spring latch and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims, to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.
The lateral AP001 system is to be combined with the additional locking mechanisms.

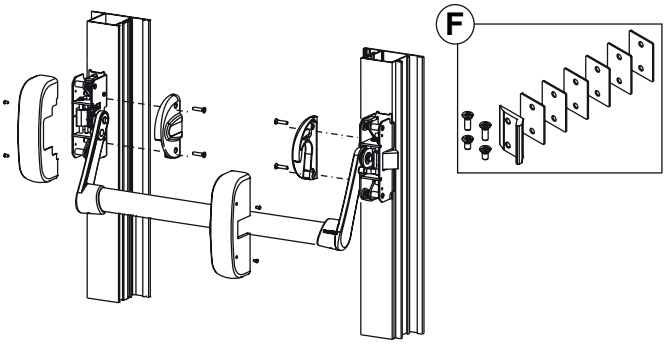
Materials
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Striker in zamak and polyamide shims for AP001 version
Striker and shims in stainless steel for AP001F version
Spring latch in stainless steel
Shimming plate in zinc plated steel
Grub screws and fixing screws in zinc plated steel



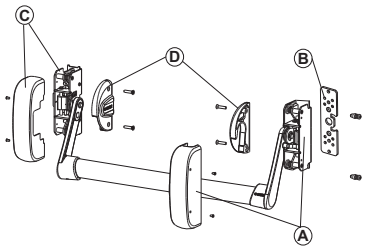
Standard version



Fire version



Item code	Description	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07310	PANIC EXIT DEVICE AP001 F LATERAL	stainless steel			X		1
07830N	PANIC EXIT DEVICE AP001 LATERAL	zamak			X		1



AP001 TOP-BOTTOM

Functions

PUSH-BAR type of panic exit device for surface mounting.

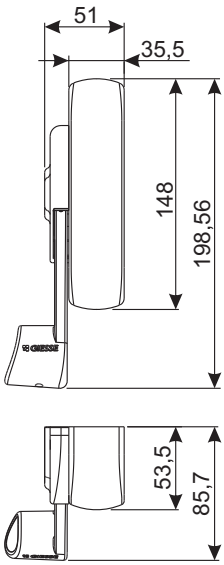
Online data sheet

Technical Features

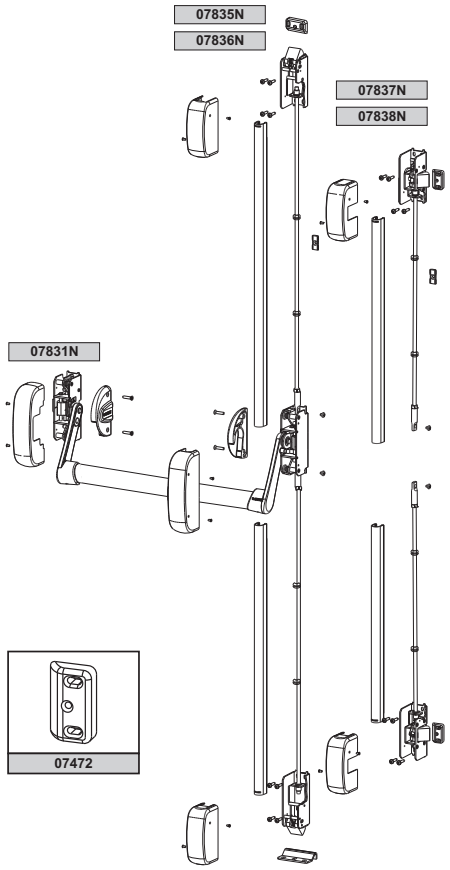
The top-bottom version AP001 system consists of:
• The main reversible mechanism (A) without a lateral spring latch that can be combined with additional locking mechanisms and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
The top-bottom AP001 system is to be combined with the additional locking mechanisms.
AP001 is ideal for use on fire doors when paired with additional locking mechanisms that are specific for this use

Materials

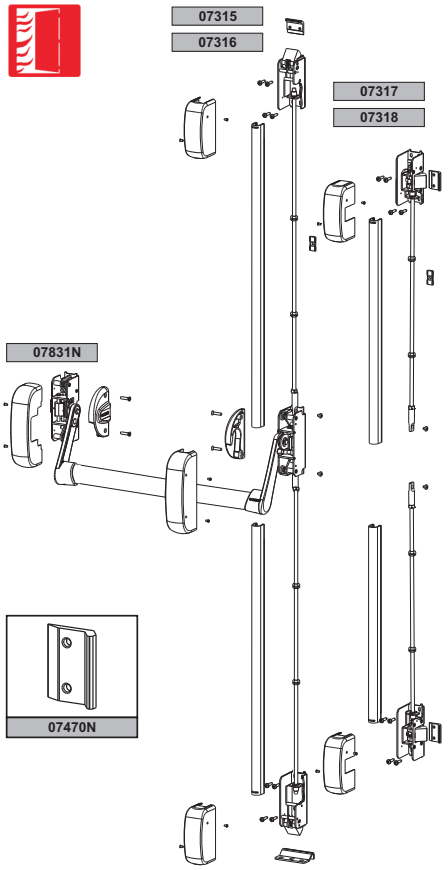
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Shimming plate in zinc plated steel
Grub screws and fixing screws in zinc plated steel



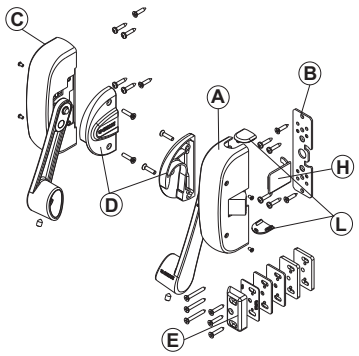
Standard version



Fire version



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07831N	PANIC EXIT DEVICE AP001 F TOP/ BOTTOM				X		1



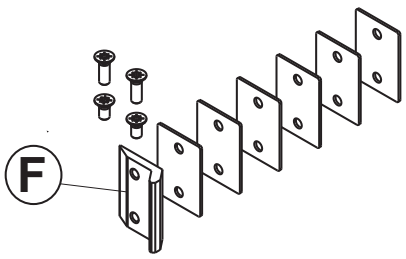
AP001 MODULAR

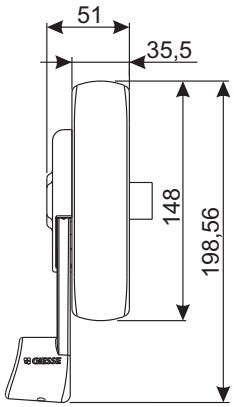
Functions
PUSH-BAR type of panic exit device for surface mounting.

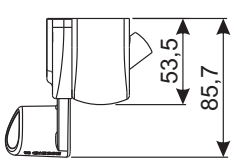
Online data sheet

Technical Features
The modular version GS AP001 system enables, with a single product, both the lateral system configuration with one locking point and the top/bottom configuration with two or three locking points.
The modular AP001 system can be combined with the additional locking mechanisms and is composed of:
• The main reversible modular mechanism (A) with a lateral spring latch (which can be excluded) that can be combined with the additional locking mechanism kit and the mechanism protection plug
• the shimming plate (B) for the main mechanism
• the secondary reversible mechanism (C) and its mechanism protection plug
• the left and right bracket stop blocks (D)
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims, to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
• the disabling plug of the side spring latch (H)
• the caps for closing the slots of the main mechanism (L)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps

Materials
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Striker in zamak and polyamide shims for AP001 version
Striker and shims in stainless steel for AP001F version
Spring latch in stainless steel
Shimming plate in zinc plated steel
Plug for disabling spring latch and slot plugs in polyamide

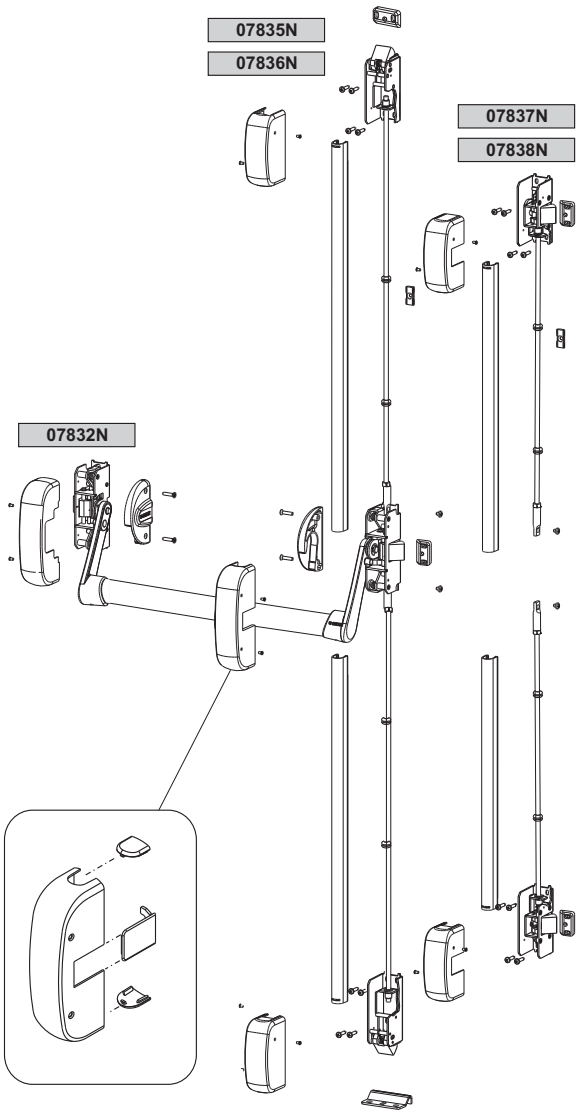




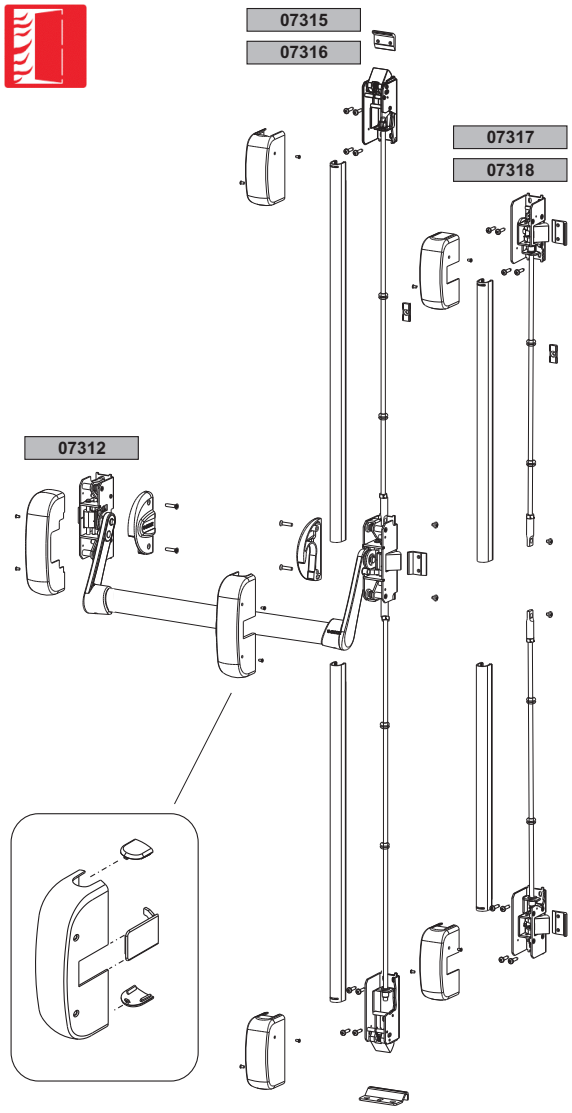


PANIC EXIT DEVICE AP001

Standard version



Fire version



Item code	Description	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07312	PANIC EXIT DEVICE AP001 F MODULAR	stainless steel			X		1
07832N	PANIC EXIT DEVICE AP001 MODULAR	zamak			X		1



PUSH-BARS AP001

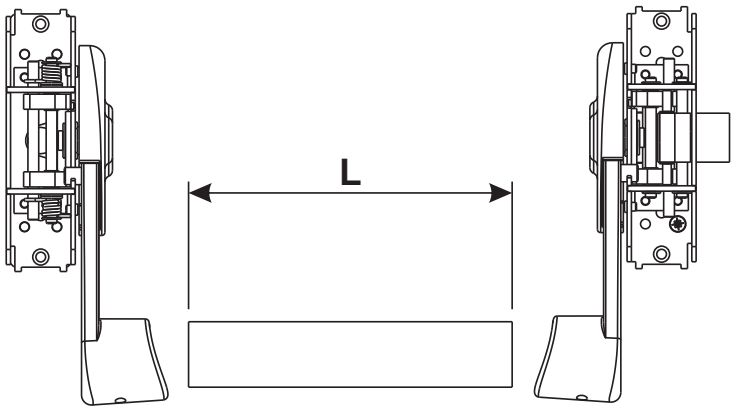
Functions

Push-bar for panic exit devices AP001 and AP100
Available in various lengths.
Fixing to the handle brackets by means of grub screws.

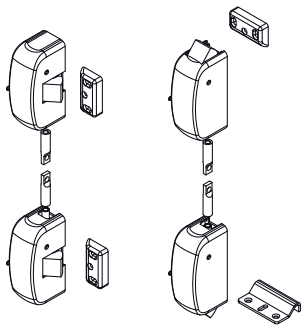
Online data sheet

Materials

Painted extruded aluminium bar



Item code	Description	Length (mm)	Sash width [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07843	HANDLE BAR	950	up to 1000 mm			X		1
07844	HANDLE BAR	1150	from 1001 to 1200 mm			X		1
07845	HANDLE BAR	1450	from 1201 to 1500 mm			X		1



ADDITIONAL LOCKING MECHANISMS AP001

Functions

The rod and spring latches kit is used to create additional locking points on the door.

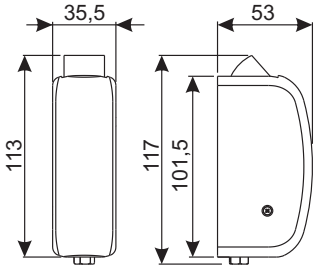
Online data sheet

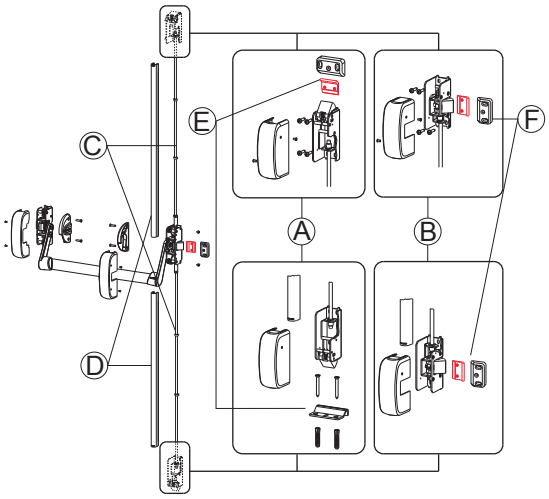
Technical Features

The kit of rods and spring latches for making additional lock points on the door is available in two versions:
• top/bottom for standard doors and fire doors, in a short version and long version. Ideal for one-sash doors that you want to close with greater security than with the lateral system or for the secondary sash of a two-sash door
• side for standard doors and fire doors, in a short version and long version. Ideal for single leaf doors where you do not include floor striker plates or for tall doors where it is difficult to make the top lock point.
The kits consist of:
• the spring latches for top/bottom (A) or lateral (B) fastening mechanisms
• the threaded rods (C)
• the rod covering (D)
• the floor striker and the upper striker with their shims for the top/bottom version (E)
• the strikers with their shims for the side version (F)
• fixing components (screws, bushings, washers)

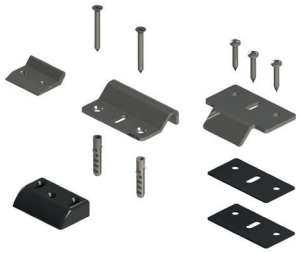
Materials

Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Spring latch in stainless steel
Threaded rods in zinc plated steel
Painted steel rod casing
Screws and fixing elements in zinc plated steel
Top/side striker in zamak and polyamide shims





Item code	Description	Locking mechanism type	Version	Sash height [mm]	Strikers provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07315	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper and floor in stainless steel			X		1
07316	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper and floor in stainless steel			X		1
07317	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in stainless steel			X		1
07318	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in stainless steel			X		1
07835N	ADDITIONAL FASTENING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper in zamak and floor in stainless steel			X		1
07836N	ADDITIONAL FASTENING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper in zamak and floor in stainless steel			X		1
07837N	ADDITIONAL FASTENING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in zamak			X		1
07838N	ADDITIONAL FASTENING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in zamak			X		1



STRIKERS FOR HANDLES AP001

Functions
Fastening strikers to be combined with panic exit devices AP001 and AP002.

Online data sheet

Technical Features

Type 1
Lateral striker in stainless steel for panic exit devices in fire-rated version AP001F AP002F.
Ensures operation of the safety device and therefore operation of the door, also in the event of fire.
The striker has no. 6 shims of 1 mm, which can overlap, for adjusting the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials
Striker and shims in stainless steel
Screws for fixing to the profile in stainless steel

Type 2
Floor striker to be placed at the bottom vertical spring latch of the panic exit devices AP001 and AP002.
Supplied with the additional spring latches, it can also be purchased separately.

Materials
Stainless steel striker
Screws for fixing to the profile in stainless steel
Plastic expansion dowels for fixing

Type 3
Adjustable side striker to be placed at the side or vertical spring latches of the panic exit devices AP001 and AP002.
Supplied with the handles and the additional spring latches, it can also be purchased separately.
The striker has no. 5 shims respectively of 1 mm, 2 mm and 4 mm, which can overlap with each other for fixing the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials
Side striker in zamak
Polyamide side shims
Screws for fixing to the profile in stainless steel

Type 4
Side striker for PVC.

Materials
Stainless steel striker
Stainless steel fixing screws

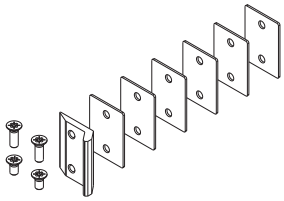
Type 5
Side striker for PVC and wood.

Materials
Zamak components
Stainless steel fixing screws

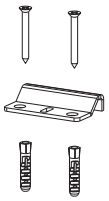
Type 6
Side striker for PVC and wood.

Materials
Zamak components
Stainless steel fixing screws

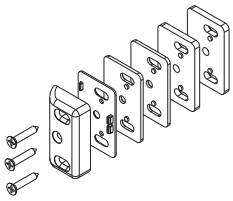
Type 1



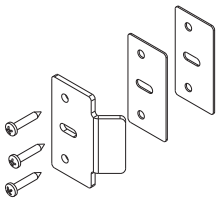
Type 2



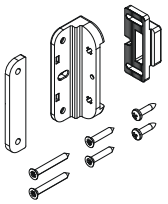
Type 3



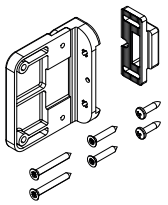
Type 4



Type 5

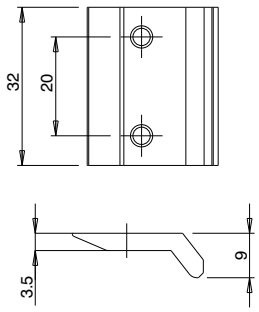


Type 6

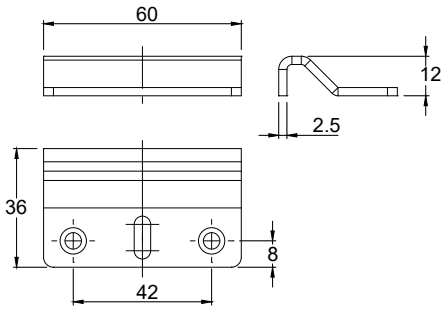


PANIC EXIT DEVICE AP001

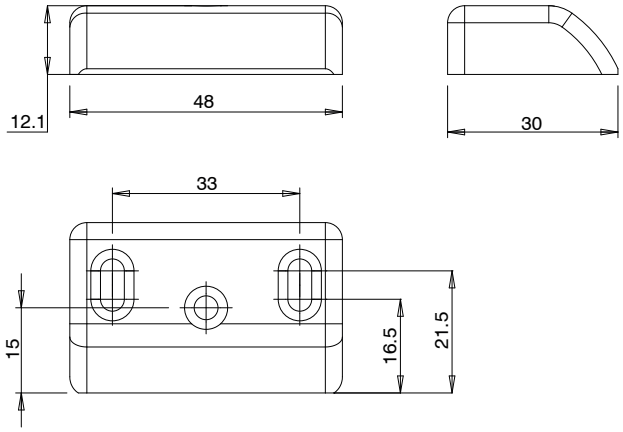
Type 1



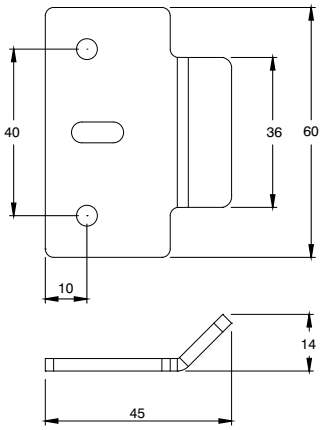
Type 2



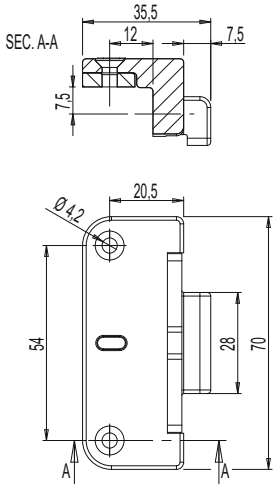
Type 3



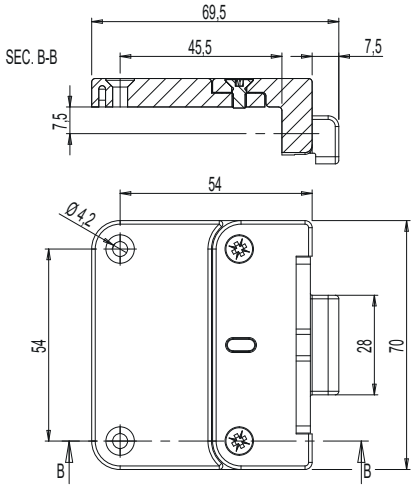
Type 4



Type 5



Type 6



Item code	Description	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07470N	LATERAL STRIKER FOR HANDLES AP001F/AP002F	1	X				10
07471	FLOOR STRIKER FOR HANDLES AP001/AP002	2	X				10
07472	LATERAL STRIKER FOR HANDLES AP001/AP002	3	X				10
07473	LATERAL STRIKER FOR PVC FOR HANDLES AP001/AP002	4	X				10
07474	Side striker for PVC and wood AP001-AP002	5			X		10
07475	Side striker for PVC and wood L AP001-AP002	6			X		10



EXTERNAL CONTROLS

Functions

The external control common to all GS AP001 and GS AP002 panic bars, enables the operating handle to be locked in position by way of the cylinder, thus preventing the door being opened from outside.

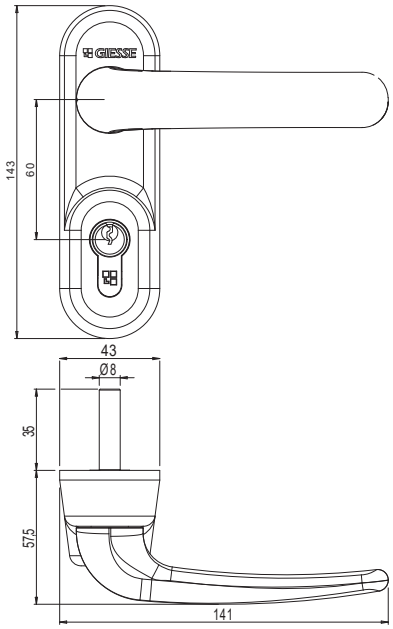
Online data sheet

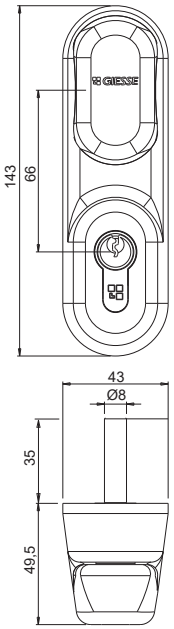
Technical Features

External handle to be fitted on the upright or centre rail of the door in conjunction with the panic exit devices AP001 and AP002.
Available in versions with a handle and with a knob, with an integrated half cylinder 31/10 or without a cylinder.

Materials

Handle in aluminium/knob in zamak
Zamak casing
Shimming plate in zinc plated steel
Square pin 8x120 and fixing screws in zinc plated steel
Cylinder and key made of nickel-plated brass





Item code	Description	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0732201	EXTERNAL CONTROL WITH FREE KNOB	8x120			X		1
07324	EXTERNAL CONTROL WITH FREE HANDLE	8x120			X		1

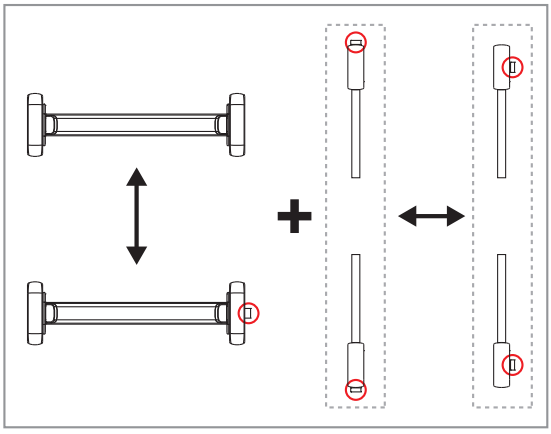


PANIC EXIT DEVICE AP002

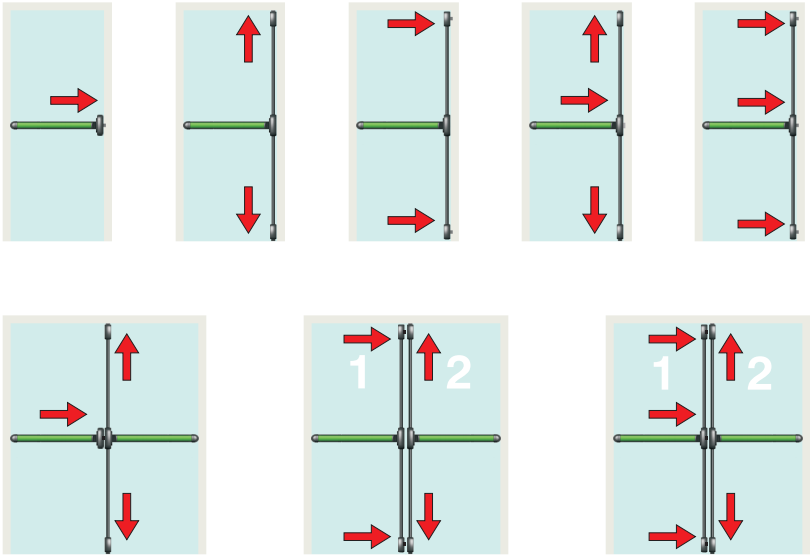
Functions
TOUCH-BAR type panic exit device for surface mounting.

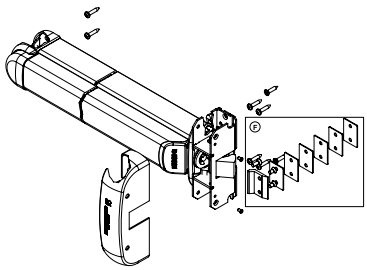
Technical Features
The AP002 system is available in 3 versions:
• LATERAL (1 LOCKING POINT)
• TOP/BOTTOM
• MODULAR (3 LOCKING POINTS)
Each of these versions is available in three different lengths:
• short version with bar size 840 mm
• medium version with bar size 1170 mm
• long version with bar size 1300 mm
Completely reversible, AP002 can be fitted on right or left opening doors without requiring any additional operation.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.
AP002 is ideal for use on fire doors when paired with hardware that is specific for this use.

Certifications
The AP002 system is certified to UNI EN 1125:2008 standards and approved for CE marking with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C



Configurations





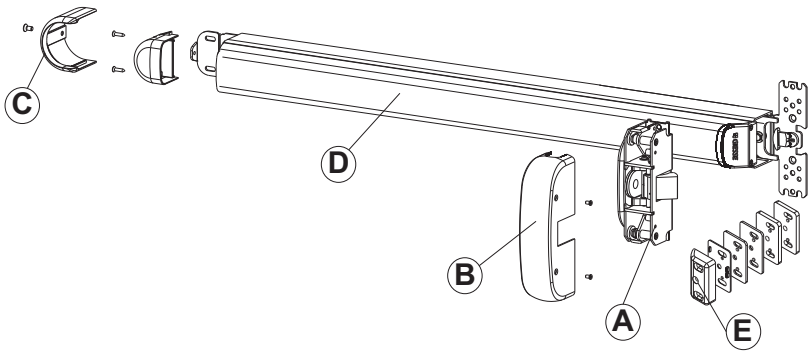
AP002 LATERAL

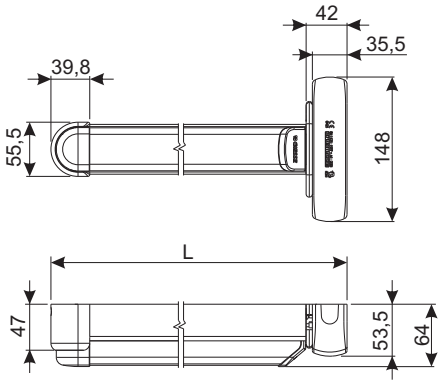
Functions
TOUCH-BAR type panic exit device for surface mounting.

Online data sheet

Technical Features
The lateral version AP002 system consists of:
• the reversible mechanism (A) with a lateral spring latch and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C)
• the base with push-bar and mechanism (D), with assembled front and rear caps
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
The version suited for use on fire doors AP001F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.
The lateral AP002 system is to be combined with the additional locking mechanisms.

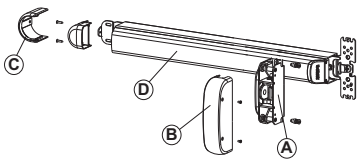
Materials
Mechanism in zinc plated steel
Painted steel mechanism protection plug
Push-bar in extruded aluminium
Spring latch in stainless steel
Striker in zamak and polyamide shims for AP002 version
Striker and shims in stainless steel for AP002F version
Fixing screws, zinc-coated steel





Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07410	PANIC EXIT DEVICE AP002 LATERAL	SHORT	840	up to 1000	zamak			X		1
07411	PANIC EXIT DEVICE AP002 LATERAL	AVERAGE	1170	from 1001 to 1200	zamak			X		1
07412	PANIC EXIT DEVICE AP002 LATERAL	LONG	1300	from 1201 to 1500	zamak			X		1
07420	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	SHORT	840	up to 1000	stainless steel			X		1
07421	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	AVERAGE	1170	from 1001 to 1200	stainless steel			X		1
07422	PANIC EXIT DEVICE AP002F LATERAL FOR FIRE DOORS	LONG	1300	from 1201 to 1500	stainless steel			X		1

AP002 TOP-BOTTOM



Functions

TOUCH-BAR type panic exit device for surface mounting.

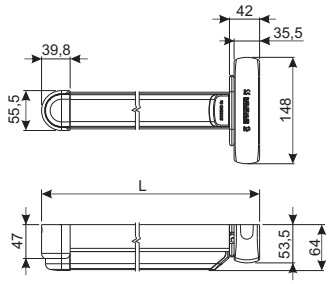
Online data sheet

Technical Features

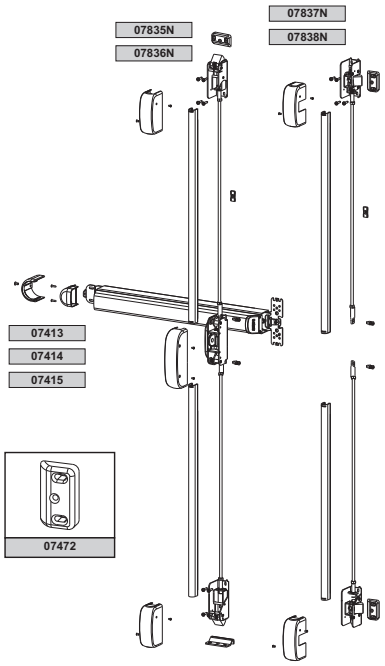
The top-bottom version AP002 system consists of:
• the reversible mechanism (A) without a lateral spring latch that can be combined with additional locking mechanisms and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C)
• the base with push-bar and mechanism (D), with assembled front and rear caps
The top-bottom AP002 system is to be combined with the additional locking mechanisms.
This version is ideal for use on fire doors when paired with additional fastening mechanisms that are specific for this use.

Materials

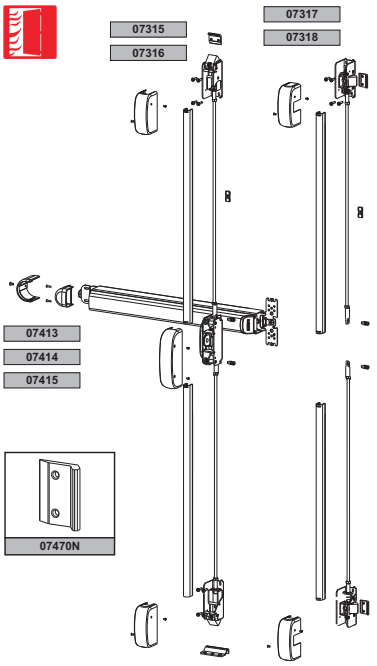
Mechanism in zinc plated steel
Painted steel mechanism protection plug
Brackets and bracket stop blocks in zamak
Shimming plate in zinc plated steel
Zinc plated steel fixing screws and grub screws



Standard version

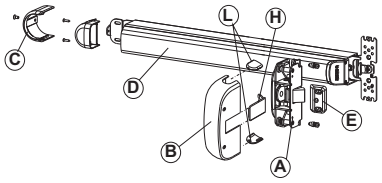


Fire version



Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07413	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	SHORT	840	up to 1000			X		1
07414	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	AVERAGE	1170	from 1001 to 1200			X		1
07415	PANIC EXIT DEVICE AP002 TOP/ BOTTOM	LONG	1300	from 1201 to 1500			X		1

AP002 MODULAR

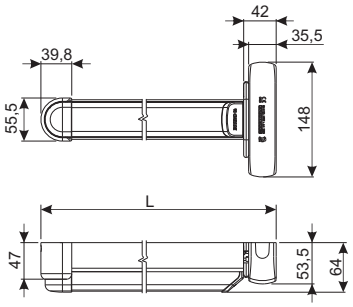


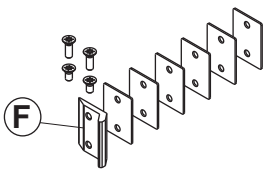
Functions
TOUCH-BAR type panic exit device for surface mounting.

Online data sheet

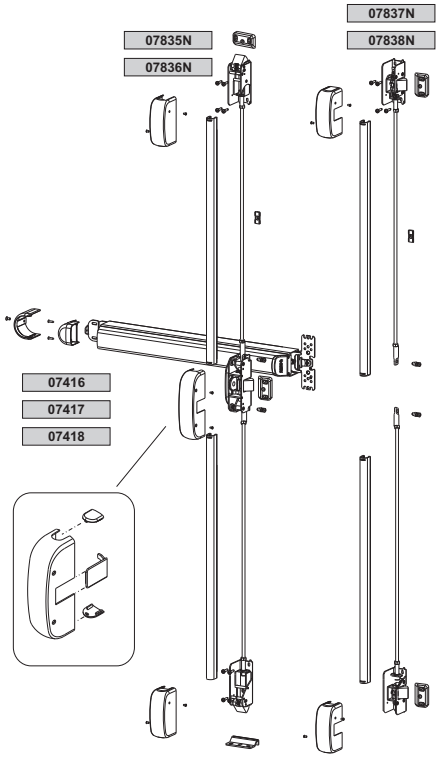
Technical Features
The modular version AP002 system enables, with a single article, both the side configuration with one lock point and the top/bottom configuration with two or three lock points.
The modular AP002 system is to be combined with the additional locking mechanisms.
The modular version AP002 system consists of:
• the reversible modular mechanism (A) with a lateral spring latch (which can be excluded) that can be combined with the additional locking mechanism kit and the mechanism protection plug (B)
• the pre-assembled round coupling shim (C
• the base with push-bar and mechanism (D), with assembled front and rear caps
• the adjustable lateral striker (E) to be installed by the lateral spring latch of the main mechanism and its stackable shims to be placed under the striker for profiles with different steps (no. 1 shim size 1 mm, no. 2 shims size 2 mm and no. 2 shims size 4 mm)
• the disabling plug of the side spring latch (H)
• the caps for closing the slots of the main mechanism (L)
The version suited for use on fire doors AP002F has a steel lateral striker (F) (instead of zamak as on the standard version) and a set of overlapping shims for use on profiles with different steps.

Materials
Mechanism in zinc plated steel
Painted steel mechanism protection plug
Push-bar in extruded aluminium
Spring latch in stainless steel

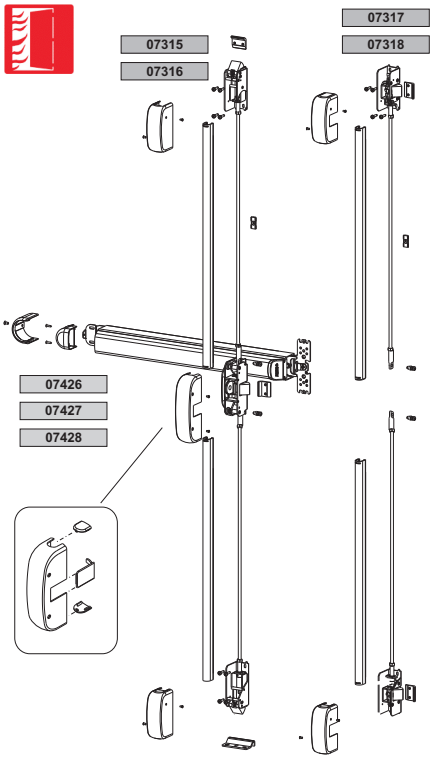




Standard version

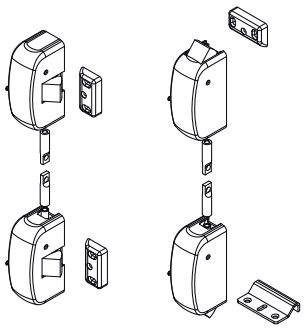


Fire version



PANIC EXIT DEVICE AP002

Item code	Description	Version	Bar length L [mm]	Sash width [mm]	Striker provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07416	PANIC EXIT DEVICE AP002 MODULAR	SHORT	840	up to 1000	zamak			X		1
07417	PANIC EXIT DEVICE AP002 MODULAR	AVERAGE	1170	from 1001 to 1200	zamak			X		1
07418	PANIC EXIT DEVICE AP002 MODULAR	LONG	1300	from 1201 to 1500	zamak			X		1
07426	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	SHORT	840	up to 1000	stainless steel			X		1
07427	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	AVERAGE	1170	from 1001 to 1200	stainless steel			X		1
07428	PANIC EXIT DEVICE AP002F MODULAR FIRE-RATED	LONG	1300	from 1201 to 1500	stainless steel			X		1



ADDITIONAL LOCKING MECHANISMS AP002

Functions

The rod and spring latches kit is used to create additional locking points on the door.

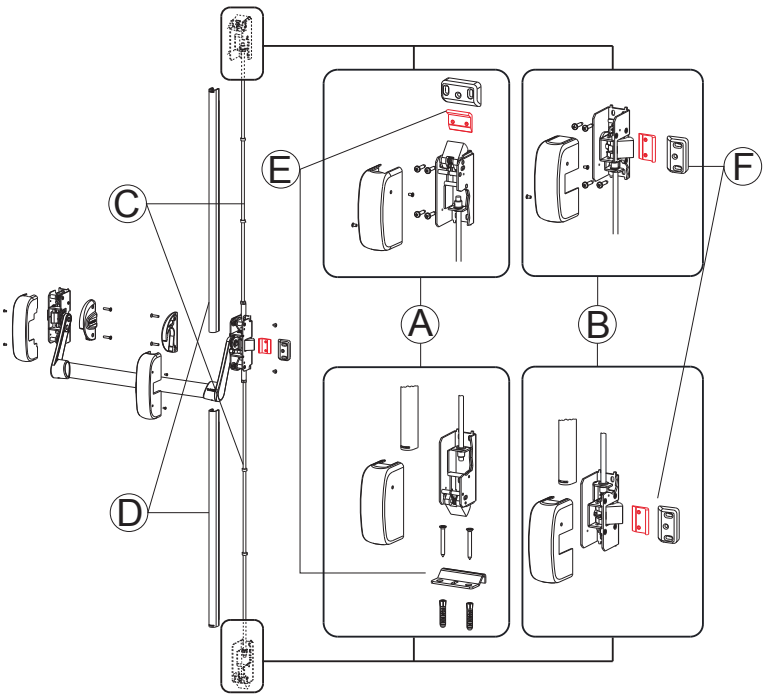
Online data sheet

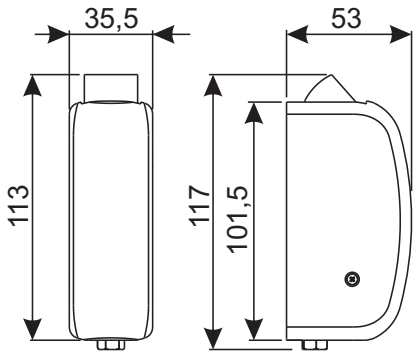
Technical Features

The kit of rods and spring latches for making additional lock points on the door is available in two versions:
• top/bottom for standard doors and fire doors, in a short version and long version. Ideal for one-sash doors that you want to close with greater security than with the lateral system or for the secondary sash of a two-sash door
• side for standard doors and fire doors, in a short version and long version. Ideal for single leaf doors where you do not include floor striker plates or for tall doors where it is difficult to make the top lock point.
The kits consist of:
• the spring latches for top/bottom (A) or lateral (B) fastening mechanisms
• the threaded rods (C)
• the rod covering (D)
• the floor striker and the upper striker with their shims for the top/bottom version (E)
• the strikers with their shims for the side version (F)
• fixing components (screws, bushings, washers)

Materials

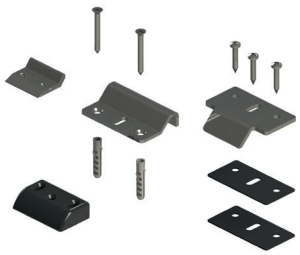
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Spring latch in stainless steel
Threaded rods in zinc plated steel
Painted steel rod casing
Screws and fixing elements in zinc plated steel
Top/side striker in zamak and polyamide shims





PANIC EXIT DEVICE AP002

Item code	Description	Locking mechanism type	Version	Sash height [mm]	Strikers provided	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07315	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper and floor in stainless steel			X		1
07316	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper and floor in stainless steel			X		1
07317	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	SHORT	up to 2640 mm	side elements in stainless steel			X		1
07318	FIRE-RATED ADDITIONAL LOCKING MECHANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in stainless steel			X		1
07835N	ADDITIONAL FASTENING MECH-ANISMS	TOP/BOTTOM (2 LOCKING POINTS)	SHORT	up to 2640 mm	upper in zamak and floor in stainless steel			X		1
07836N	ADDITIONAL FASTENING MECH-ANISMS	TOP/BOTTOM (2 LOCKING POINTS)	LONG	from 2641 mm to 3150 mm	upper in zamak and floor in stainless steel			X		1
07837N	ADDITIONAL FASTENING MECH-ANISMS	LATERAL	SHORT	up to 2640 mm	side elements in zamak			X		1
07838N	ADDITIONAL FASTENING MECH-ANISMS	LATERAL	LONG	from 2641 mm to 3150 mm	side elements in zamak			X		1



STRIKERS FOR HANDLES AP002

Functions
Fastening strikers to be combined with panic exit devices AP001 and AP002.

Online data sheet

Technical Features

Type 1
Lateral striker in stainless steel for panic exit devices in fire-rated version AP001F AP002F.
Ensures operation of the safety device and therefore operation of the door, also in the event of fire.
The striker has no. 6 shims of 1 mm, which can overlap, for adjusting the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials
Striker and shims in stainless steel
Screws for fixing to the profile in stainless steel

Type 2
Floor striker to be placed at the bottom vertical spring latch of the panic exit devices AP001 and AP002.
Supplied with the additional spring latches, it can also be purchased separately.

Materials
Stainless steel striker
Screws for fixing to the profile in stainless steel
Plastic expansion dowels for fixing

Type 3
Adjustable side striker to be placed at the side or vertical spring latches of the panic exit devices AP001 and AP002.
Supplied with the handles and the additional spring latches, it can also be purchased separately.
The striker has no. 5 shims respectively of 1 mm, 2 mm and 4 mm, which can overlap with each other for fixing the various series of profiles.
Fixing to the profile with self-tapping screws.

Materials
Side striker in zamak
Polyamide side shims
Screws for fixing to the profile in stainless steel

Type 4
Side striker for PVC.

Materials
Stainless steel striker
Stainless steel fixing screws

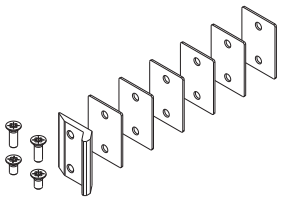
Type 5
Side striker for PVC and wood.

Materials
Zamak components
Stainless steel fixing screws

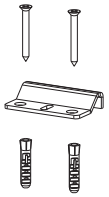
Type 6
Side striker for PVC and wood.

Materials
Zamak components
Stainless steel fixing screws

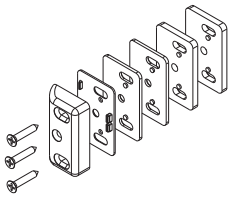
Type 1



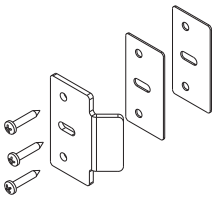
Type 2



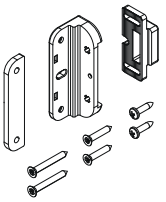
Type 3



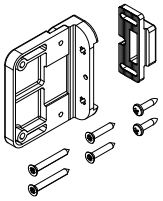
Type 4



Type 5

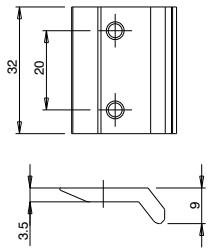


Type 6

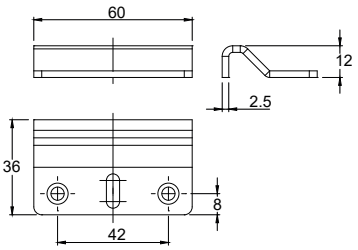


PANIC EXIT DEVICE AP002

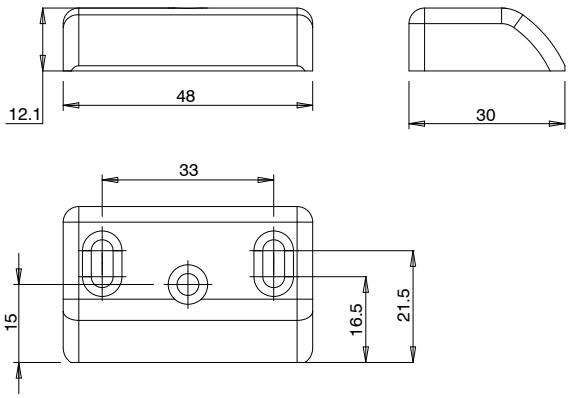
Type 1



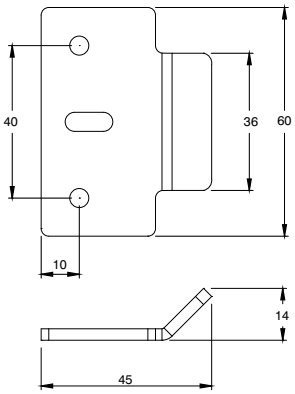
Type 2



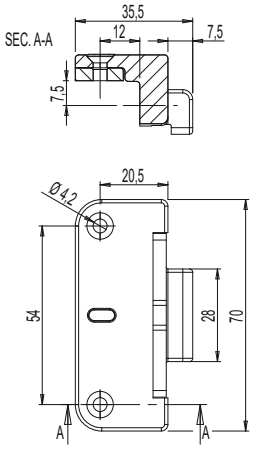
Type 3



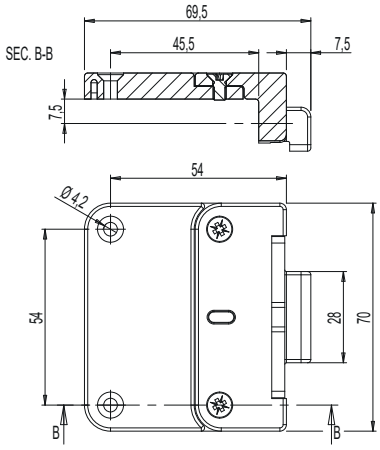
Type 4



Type 5



Type 6



Item code	Description	Type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07470N	LATERAL STRIKER FOR HANDLES AP001F/AP002F	1	X				10
07471	FLOOR STRIKER FOR HANDLES AP001/AP002	2	X				10
07472	LATERAL STRIKER FOR HANDLES AP001/AP002	3	X				10
07473	LATERAL STRIKER FOR PVC FOR HANDLES AP001/AP002	4	X				10
07474	Side striker for PVC and wood AP001-AP002	5			X		10
07475	Side striker for PVC and wood L AP001-AP002	6			X		10



EXTERNAL CONTROLS

Functions

The external control common to all GS AP001 and GS AP002 panic bars, enables the operating handle to be locked in position by way of the cylinder, thus preventing the door being opened from outside.

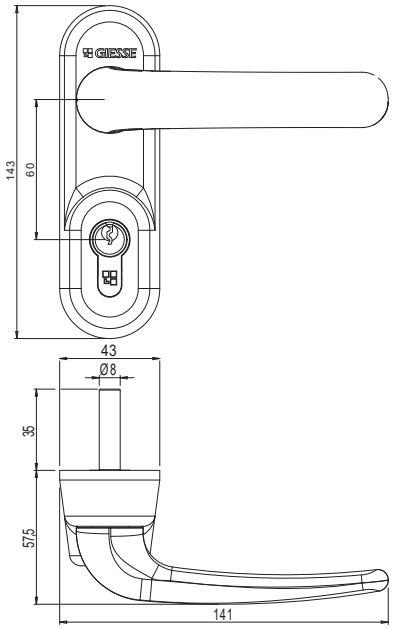
Online data sheet

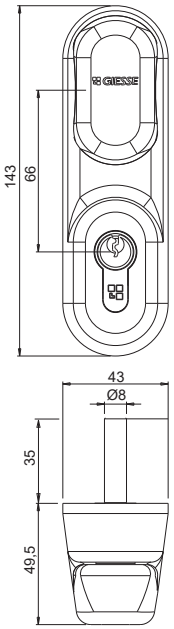
Technical Features

External handle to be fitted on the upright or centre rail of the door in conjunction with the panic exit devices AP001 and AP002.
Available in versions with a handle and with a knob, with an integrated half cylinder 31/10 or without a cylinder.

Materials

Handle in aluminium/knob in zamak
Zamak casing
Shimming plate in zinc plated steel
Square pin 8x120 and fixing screws in zinc plated steel
Cylinder and key made of nickel-plated brass





Item code	Description	Square spindle [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0732201	EXTERNAL CONTROL WITH FREE KNOB	8x120			X		1
07324	EXTERNAL CONTROL WITH FREE HANDLE	8x120			X		1



PANIC EXIT DEVICE AP100

Functions

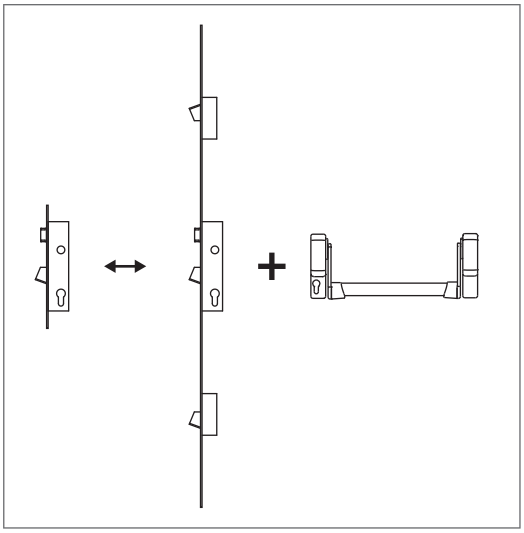
PUSH BAR type safety panic exit device for slip-on mounting.

Technical Features

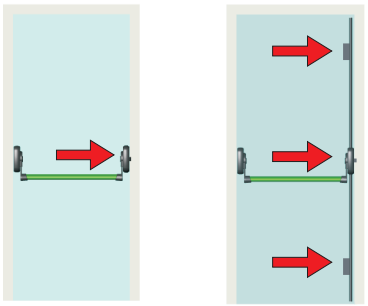
The security version AP100 system consists of:
• AP100 locking mechanism
• Oval push-bar, sold separately, available in three different widths
• Antipanic security locks with one and three locking points, to be chosen depending on the profile and the type of application with specific counterplates
• Counterplates for AP100 locks
The pressure on the bar determines the rotation of a special square pin (emergency function) which operates the security lock coupled with the device only when opening.
The security locks of this type have the characteristic of being able to be opened by simply turning the handle spindle, even when the bolt is closed.
The special conditions of installation make the emergency function active only on the inside of the door.
The mechanism, locks and emergency function can be easily reversed for application on both left and right handed doors.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.

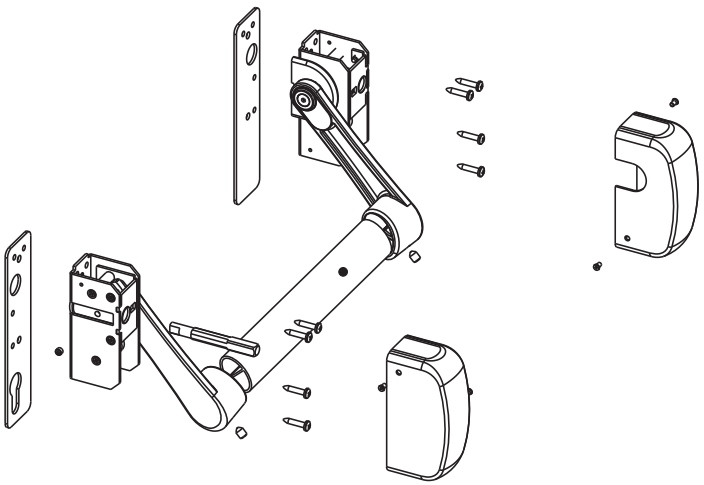
Certifications

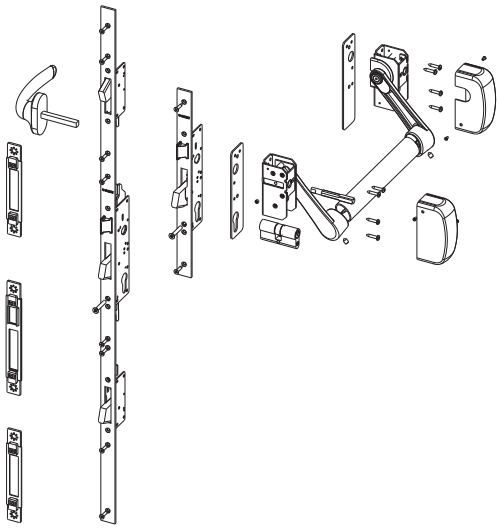
The AP100 system is certified to UNI EN 1125:2008 standards and approved for CE marking, with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C



Configurations







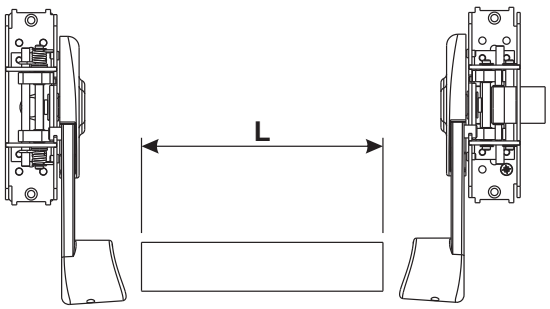


PUSH-BARS AP100

Functions
Operating bar for anti-panic handles AP001 and AP100.

Online data sheet

Technical Features
Available in various lengths.
Fixing to the handle brackets by means of grub screws.



Item code	Description	Length (mm)	Sash width [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07843	HANDLE BAR	950	up to 1000 mm			X		1
07844	HANDLE BAR	1150	from 1001 to 1200 mm			X		1
07845	HANDLE BAR	1450	from 1201 to 1500 mm			X		1



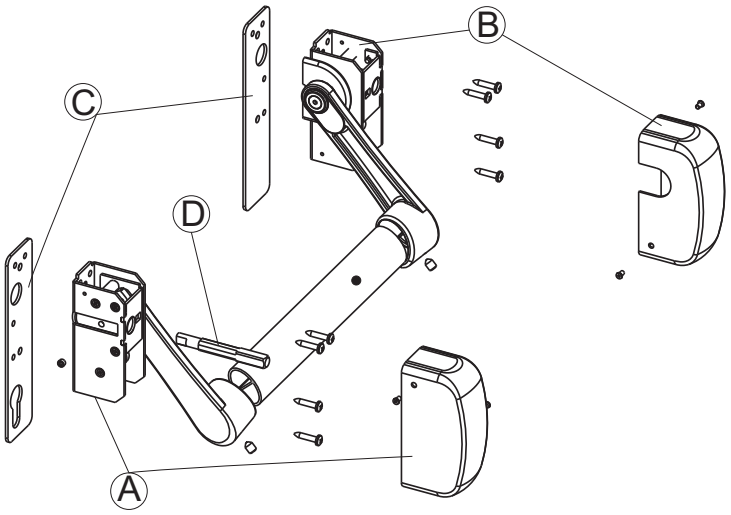
AP100 MECHANISM

Functions
PUSH BAR type safety panic exit device for slip-on mounting.

Online data sheet

Technical Features
The AP100 mechanism consists of:
• main operating device (A) and its mechanism protection plug
• secondary operating device (B) and its mechanism protection plug
• shimming plates (C)
• square connecting pin between the fastening mechanism and lock (D)
The device to insert should be combined with the following components:
• oval push-bar, sold separately, available in three different widths
• the security locks with one-point and three-point fastening, to be chosen depending on the profile and the type of application with specific counterplates
• specific strikers for the lock used
cylinder

Materials
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets in Zamak
Shimming plates in zinc plated steel
Grub screws and fixing screws in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07833	PANIC EXIT DEVICE AP100				X		1



CENTRAL LOCKS FOR EMERGENCY EXITS

Functions

Central lock, slip-on version for aluminium uprights , available with flat front and "U" shaped front, equipped with spring latch and pivoting bolt for emergency exits.

Online data sheet

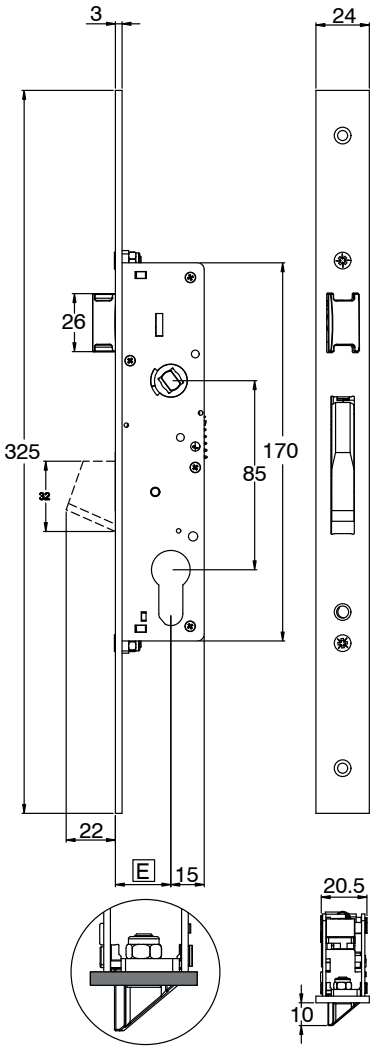
Technical Features

Bolt operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Flat front plate 24x3 mm.

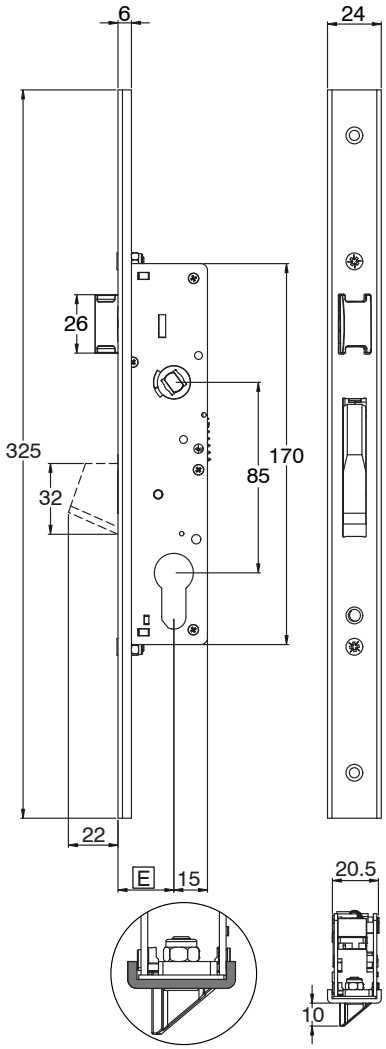
Materials

Lock cover plate and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel

Flat front



U-front



PANIC EXIT DEVICE AP100

Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07640	CENTRAL LOCK FOR EMERGENCY EXITS	25	24	U-SHAPED	07691 - 07694 - 07695	X				1
07643	CENTRAL LOCK FOR EMERGENCY EXITS	25	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1
07660	CENTRAL LOCK FOR EMERGENCY EXITS	30	24	U-SHAPED	07691 - 07694 - 07695	X				1
07661	CENTRAL LOCK FOR EMERGENCY EXITS	35	24	U-SHAPED	07691 - 07694 - 07695	X				1
07662	CENTRAL LOCK FOR EMERGENCY EXITS	30	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1
07663	CENTRAL LOCK FOR EMERGENCY EXITS	35	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1



MULTIPOINT LOCKS FOR EMERGENCY EXITS

Functions

Multipoint lock with central lock and additional locks, available with flat front and "U" shaped front, equipped with spring latch and pivoting bolts for emergency exits.

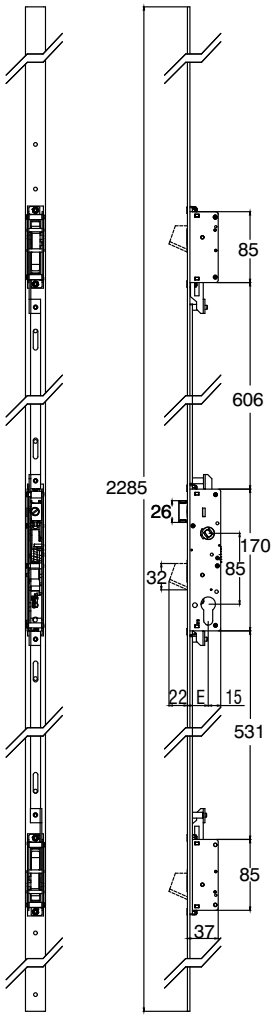
Online data sheet

Technical Features

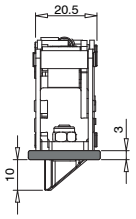
Bolts operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Front plate 24x3 mm.
Available with U front and Flat front

Materials

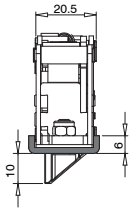
Lock cover plates and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Flat front



U-front



Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07650	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	25	24	U-SHAPED	07701 - 07704 - 07705	X				1
07653	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	25	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1
07664	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	30	24	U-SHAPED	07701 - 07704 - 07705	X				1
07665	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	35	24	U-SHAPED	07701 - 07704 - 07705	X				1
07666	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	30	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1
07667	MULTIPOINT LOCK FOR EMERGEN-CY EXITS	35	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1



COUNTERPLATES FOR LOCKS AP100

Functions

Counterplates to be combined with the central locks AP100 multi-point locks for emergency exits to be combined with the system.

Online data sheet

Technical Features

TYPE 1

Counterplate and set of adjustable counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP100.
Front fixing with self-threading screws. Equipped with shims to adjust the stack.
Side adjustment ± 2 mm with the two blocks ready-assembled to the counter-plate.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Central plate body in zamak

TYPE 2

Counterplate and set of adjustable flat counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP100.
Front fixing with self-tapping screws.
Side adjustment ± 1.5 mm with slots.

Materials

Counterplates and screws for fixing to the profile made of stainless steel

TYPE 3

Counterplate and set of adjustable counterplates for European Groove type profiles, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

TYPE 4

Counterplate and set of adjustable counterplates for R40/R50 type profiles, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

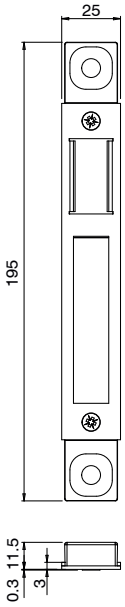
TYPE 5

Counterplate and set of adjustable counterplates for profiles with a channel with a stack of 30 mm, to be combined with the single and multi-point locks for emergency AP100.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2 mm with slots

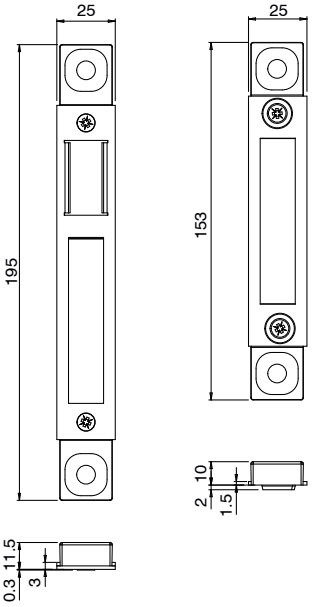
Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

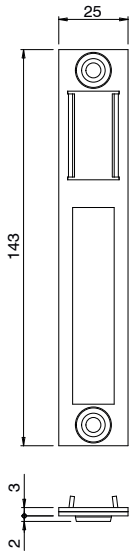
Type 1 – art. 07691



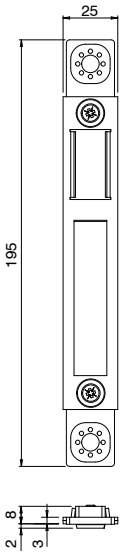
Type 1 – art. 07701



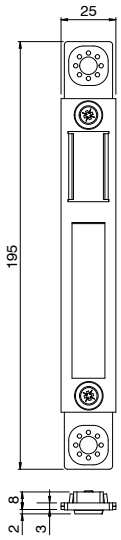
Type 2 – art. 07695

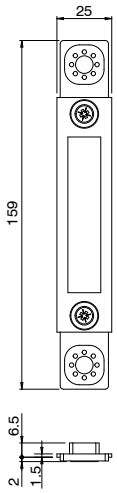


Type 3 – art. 07690

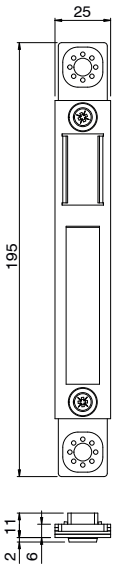


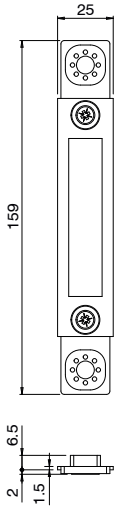
Type 3 – art. 07700



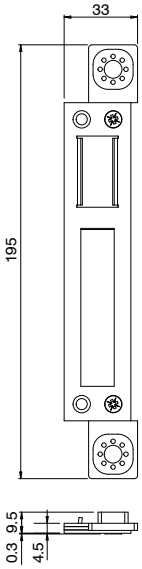


Type 3 – art. 07702

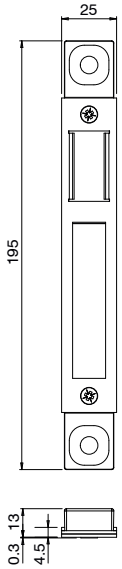




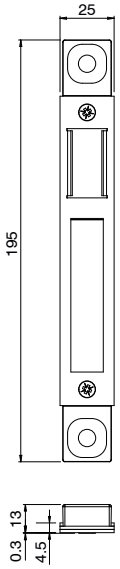
Type 4 – art. 07693

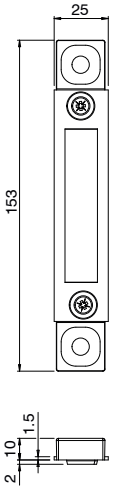


Type 5 – art. 07694



Type 5 – art. 07704





Item code	Description	Adjustment	Width [mm]	PROFILE CROSS - SECTION	Locks compatible with AP100	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07690	COUNTERPLATE FOR EUROPEAN GROOVE PROFILES	± 2 mm	25	C001-C013-C015	07643 - 07644 - 07645 - 07662 - 07663	X				1
07691	COUNTERPLATE FOR DOOR PROFILES	± 2 mm	25	C001-C002-C013-C014-C017	07641 - 07642 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07693	COUNTERPLATE FOR PROFILE R40/R50	± 2 mm	33	C007-C008	07643 - 07644 - 07645 - 07662 - 07663	X				1
07694	COUNTERPLATE FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07640 - 07641 - 07642 - 07643 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07695	UNIVERSAL FLAT COUNTERPLATE	± 1.5 mm	25	-	07640 - 07641 - 07642 - 07643 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07700	COUNTERPLATE KIT FOR EUROPE-AN GROOVE PROFILES	± 2 mm	25	C001-C013-C015	07653 - 07654 - 07655	X				1
07701	COUNTERPLATE KIT FOR DOOR PROFILES	± 2 mm	25	-	07650 - 07651 - 07652 - 07653 - 07654 - 07655 - 07664 - 07665 - 07666 - 07667	X				1
07702	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK 12/15	± 2 mm	25	C010	07653 - 07654 - 07655 - 07666 - 07667	X				1
07704	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07650 - 07651 - 07652 - 07653 - 07654 - 07655 - 07664 - 07665 - 07666 - 07667	X				1



PANIC EXIT DEVICE AP200

Functions

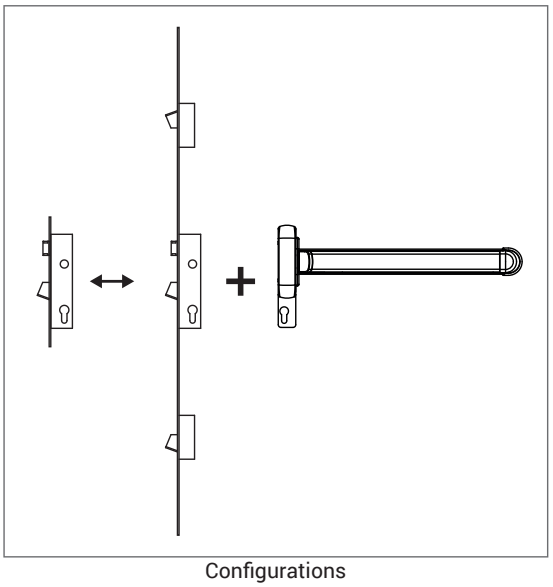
TOUCH BAR type safety panic exit device for slip-on mounting.

Technical Features

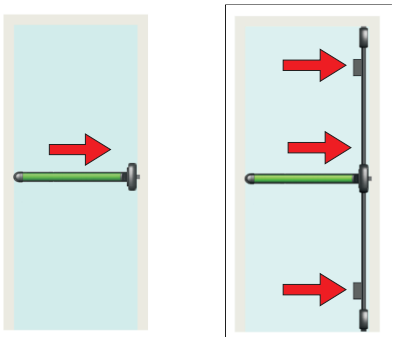
The security version AP200 system consists of:
• AP200 Mechanism with integrated bar, available in two different lengths
• Antipanic security locks with one and three locking points, to be chosen depending on the profile and the type of application with specific counterplates
• Counterplates for AP200 locks
The pressure on the bar determines the rotation of a special square pin (emergency function) which operates the security lock coupled with the device only when opening.
The security locks of this type have the characteristic of being able to be opened by simply turning the handle spindle, even when the bolt is closed.
The special conditions of installation make the emergency function active only on the inside of the door.
The mechanism, locks and emergency function can be easily reversed for application on both left and right handed doors.
The product is supplied with the fitting instructions, containing paper templates for machining the profile and the product maintenance manual.

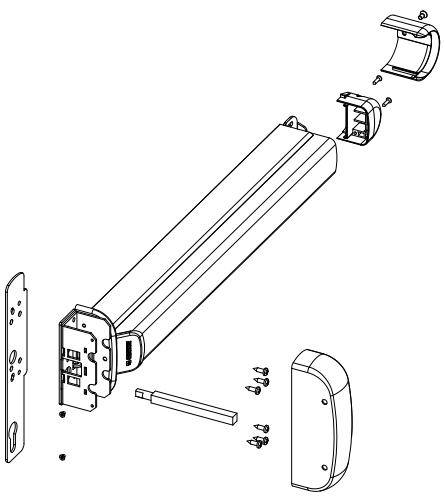
Certifications

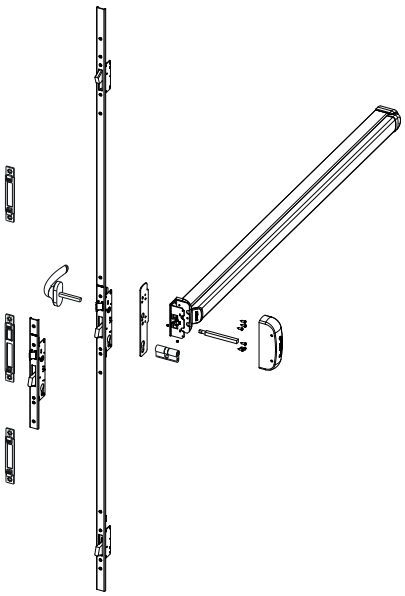
The AP200 system is certified to UNI EN 1125:2008 standards and approved for CE marking, with the highest performance levels.
The field of application of these panic exit devices, referring to this standard, is the following:
• maximum weight of the door 250 kg
• maximum height of the door 2500 mm
• maximum width of the door 1300 mm
• temperature limits -10°C/+60°C

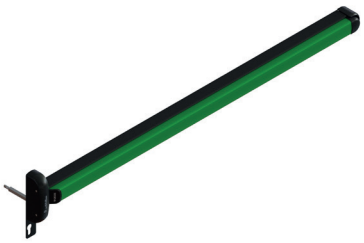


Configurations









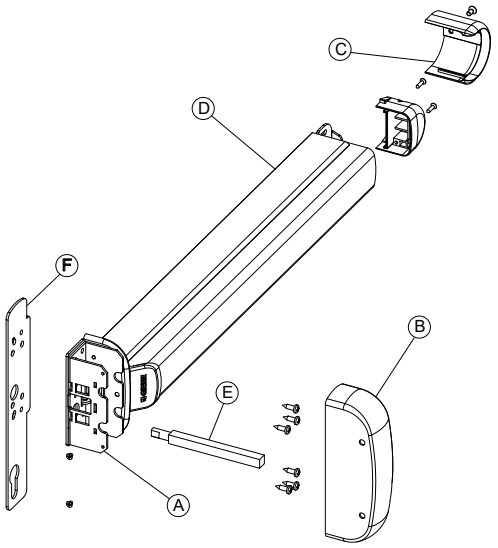
AP200 MECHANISM

Functions
TOUCH BAR type safety panic exit device for slip-on mounting.

Online data sheet

Technical Features
The AP200 mechanism consists of:
• the reversible mechanism (A) and its mechanism protection plug (B)
• the pre-assembled round coupling shim (C)
• the base with push-bar and mechanism (D), with assembled front and rear caps
• square connecting pin between the fastening mechanism and lock (E)
• the shimming plate (F)
The device to insert should be combined with the following components:
• the security locks with one-point and three-point fastening, to be chosen depending on the profile and the type of application with specific counterplates
• specific strikers for the lock used
cylinder

Materials
Mechanisms in zinc plated steel
Painted steel mechanism protection plug
Brackets in Zamak
Shimming plates in zinc plated steel
Grub screws and fixing screws in zinc plated steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07430	PANIC EXIT DEVICE AP200	L=1170			X		1
07431	PANIC EXIT DEVICE AP200	L=1300			X		1



CENTRAL LOCKS FOR EMERGENCY EXITS

Functions

Central lock, slip-on version for aluminium uprights , available with flat front and "U" shaped front, equipped with spring latch and pivoting bolt for emergency exits.

Online data sheet

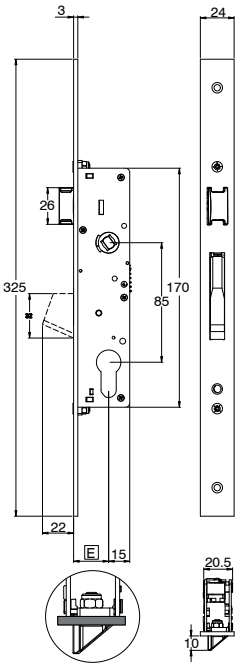
Technical Features

Bolt operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolt with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Flat front plate 24x3 mm.

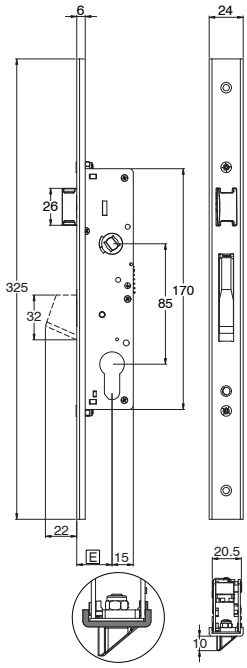
Materials

Lock cover plate and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel

Flat front



U-front



Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07660	CENTRAL LOCK FOR EMERGENCY EXITS	30	24	U-SHAPED	07691 - 07694 - 07695	X				1
07661	CENTRAL LOCK FOR EMERGENCY EXITS	35	24	U-SHAPED	07691 - 07694 - 07695	X				1
07662	CENTRAL LOCK FOR EMERGENCY EXITS	30	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1
07663	CENTRAL LOCK FOR EMERGENCY EXITS	35	24	PLATE	07690 - 07691 - 07692 - 07693 - 07694 - 07695	X				1



MULTIPOINT LOCKS FOR EMERGENCY EXITS

Functions

Multipoint lock with central lock and additional locks, available with flat front and "U" shaped front, equipped with spring latch and pivoting bolts for emergency exits.

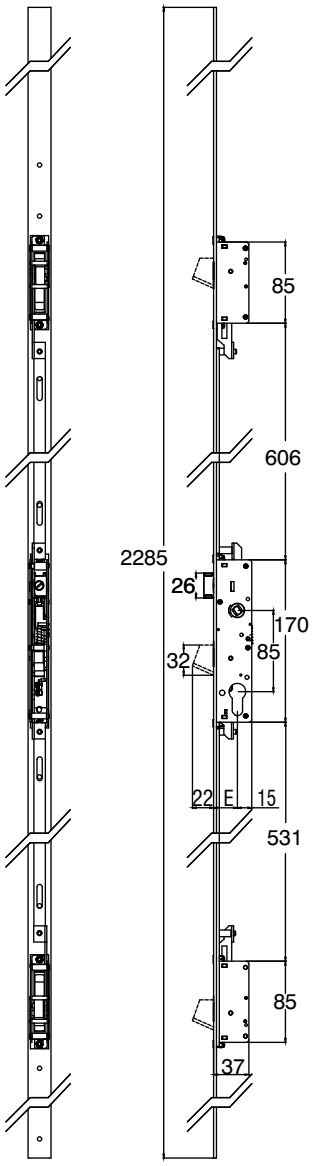
Online data sheet

Technical Features

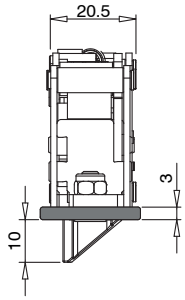
Bolts operated with the cylinder and by operating the push-bar of the panic exit device from the inside (EMERGENCY function).
Spring latch operated with the cylinder and with the 8 mm handle spindle (from the outside).
Cylinder handle C/C distance 85 mm.
Bolts with thickness of 10 mm and minimum protrusion of 24 mm.
Spring latch with 10 mm protrusion.
Front plate 24x3 mm.
Available with U front and Flat front

Materials

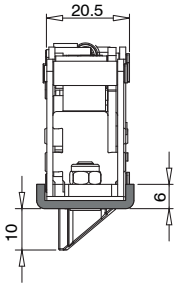
Lock cover plates and case plate in zinc plated steel
Front in stainless steel
Spring latch and bolts in nickel-plated steel
Zinc plated steel cylinder fixing screw
Lock fixing screws in stainless steel



Flat front



U-front



Item code	Description	Backset E [mm]	Front width [mm]	Front type	Compatible counter-plates	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07664	MULTIPOINT LOCK FOR EMERGENCY EXITS	30	24	U-SHAPED	07701 - 07704 - 07705	X				1
07665	MULTIPOINT LOCK FOR EMERGENCY EXITS	35	24	U-SHAPED	07701 - 07704 - 07705	X				1
07666	MULTIPOINT LOCK FOR EMERGENCY EXITS	30	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1
07667	MULTIPOINT LOCK FOR EMERGENCY EXITS	35	24	PLATE	07700 - 07701 - 07702 - 07703 - 07704 -07705	X				1



COUNTERPLATES FOR LOCKS AP200

Functions

Counterplates to be combined with the central locks AP200 multi-point locks for emergency exits to be combined with the system.

Online data sheet

Technical Features

TYPE 1

Counterplate and set of adjustable counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP200.
Front fixing with self-threading screws. Equipped with shims to adjust the stack.
Side adjustment ± 2 mm with the two blocks ready-assembled to the counter-plate.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Central plate body in zamak

TYPE 2

Counterplate and set of adjustable flat counterplates for door profiles without a channel, to be combined with the single and multi-point locks for emergency AP200.
Front fixing with self-tapping screws.
Side adjustment ± 1.5 mm with slots.

Materials

Counterplates and screws for fixing to the profile made of stainless steel

TYPE 3

Counterplate and set of adjustable counterplates for European Groove type profiles, to be combined with the single and multi-point locks for emergency AP200.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

TYPE 4

Counterplate and set of adjustable counterplates for R40/R50 type profiles, to be combined with the single and multi-point locks for emergency AP200.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2mm with slots.

Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

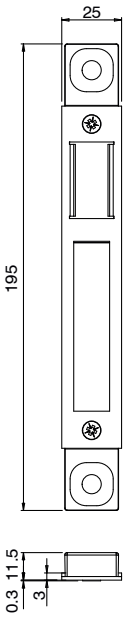
TYPE 5

Counterplate and set of adjustable counterplates for profiles with a channel with a stack of 30 mm, to be combined with the single and multi-point locks for emergency AP200.
Front fixing in a channel by way of machined fixing plates, to lock in different positions to obtain adaptability to the various series of profiles.
Side adjustment ± 2 mm with slots

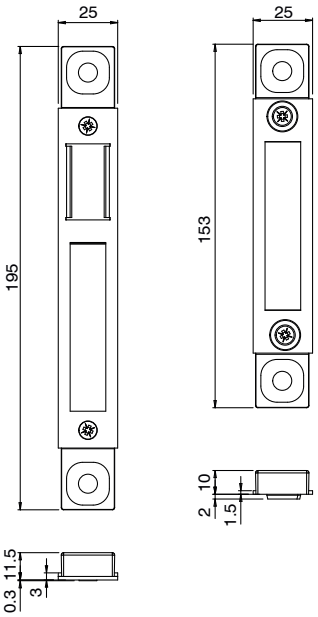
Materials

Front plates, screws for fixing to the profile and nuts made of stainless steel
Adapters for side adjustment and machined fixing plates made of zamak

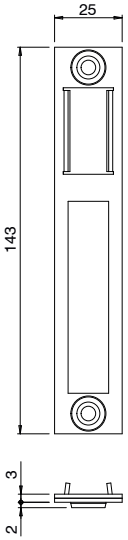
Type 1 – art. 07691



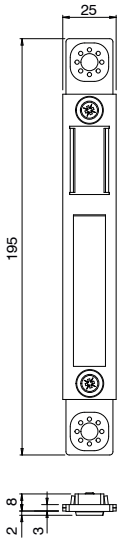
Type 1 – art. 07701



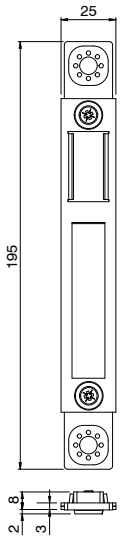
Type 2 – art. 07695

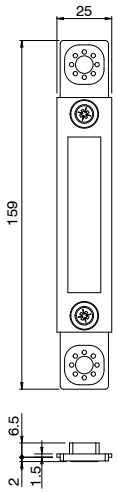


Type 3 – art. 07690

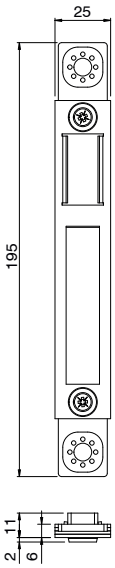


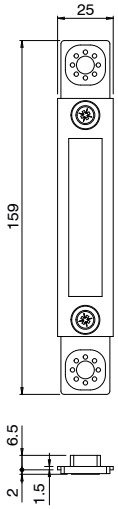
Type 3 – art. 07700



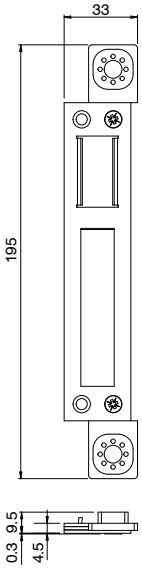


Type 3 – art. 07702

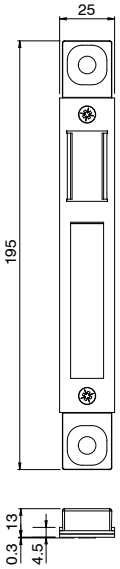




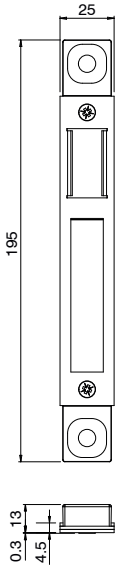
Type 4 – art. 07693

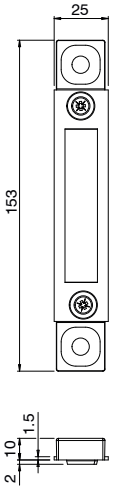


Type 5 – art. 07694



Type 5 – art. 07704

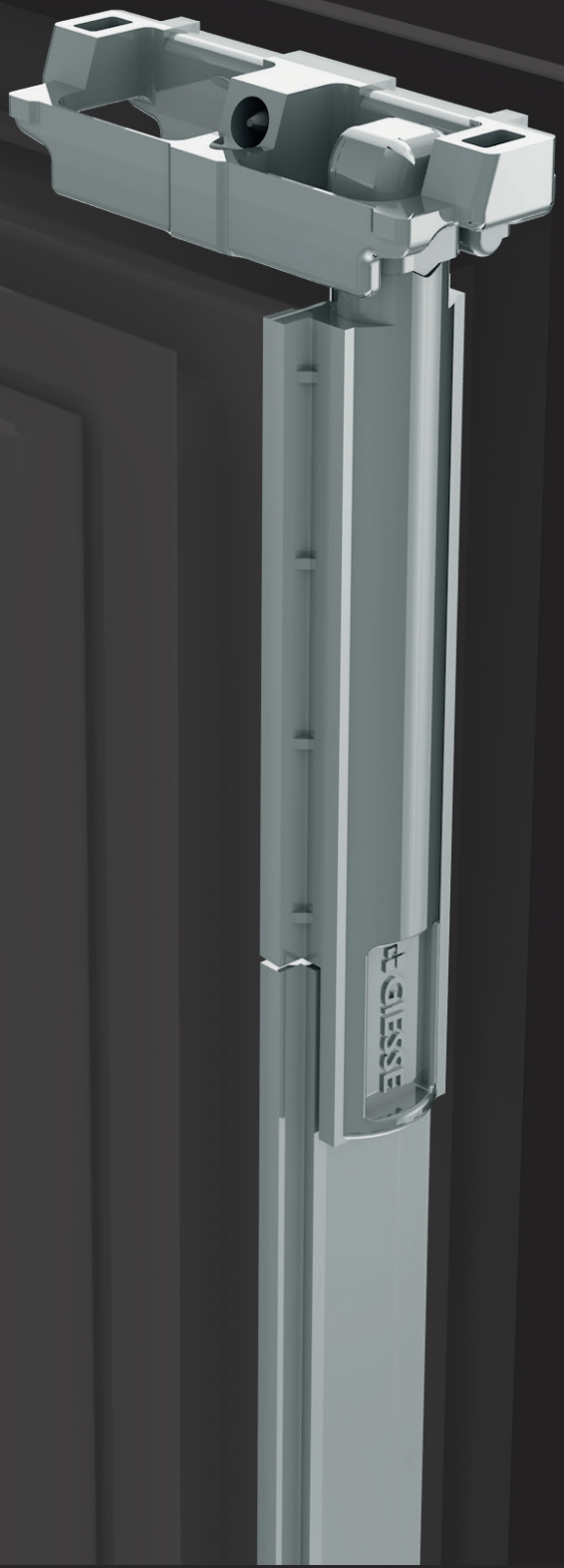




Item code	Description	Adjustment	Width [mm]	PROFILE CROSS - SECTION	Locks compatible with AP200	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07690	COUNTERPLATE FOR EUROPEAN GROOVE PROFILES	± 2 mm	25	C001-C013-C015	07644 - 07645 - 07662 - 07663	X				1
07691	COUNTERPLATE FOR DOOR PROFILES	± 2 mm	25	C001-C002-C013-C014-C017	07641 - 07642 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07693	COUNTERPLATE FOR PROFILE R40/R50	± 2 mm	33	C007-C008	07644 - 07645 - 07662 - 07663	X				1
07694	COUNTERPLATE FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07641 - 07642 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07695	UNIVERSAL FLAT COUNTERPLATE	± 1.5 mm	25	-	07641 - 07642 - 07644 - 07645 - 07660 - 07661 - 07662 - 07663	X				1
07700	COUNTERPLATE KIT FOR EUROPE-AN GROOVE PROFILES	± 2 mm	25	C001-C013-C015	07654 - 07655	X				1
07701	COUNTERPLATE KIT FOR DOOR PROFILES	± 2 mm	25	-	07651 - 07652 - 07654 - 07655 - 07664 - 07665 - 07666 - 07667	X				1
07702	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK 12/15	± 2 mm	25	C010	07654 - 07655 - 07666 - 07667	X				1
07704	COUNTERPLATE KIT FOR PROFILES GROOVE 15/20 STACK >15	± 2 mm	25	-	07651 - 07652 - 07654 - 07655 - 07664 - 07665 - 07666 - 07667	X				1

GIESSE
TYMAN group

SEALING AND FASTENING MECHANISM





SASH GIAP BOLTS

Functions

Polyamide bolt composed of an actuator and terminal with pin for direct fixing to the floor.
Ideal for side-hung doors and windows in aluminium with central gasket.

Online data sheet

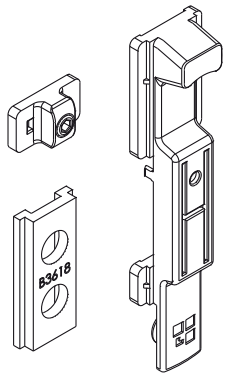
Technical Features

For the fixing where mounting is required in conjunction with the rod strikers, you will have to engage the supplied polyamide adjustable bush on the pin to achieve a perfect coupling.
Fits to the profile groove without any machining. Once positioned, secures with a block by tightening the pre-assembled M5 grub screw, with a 2.5 mm Allen key.
The polyamide connection plate can be replaced by the series rod to extend the mechanism.

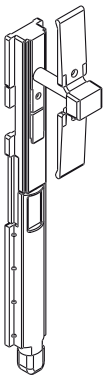
Materials

Basic parts in fibreglass loaded polyamide
Terminal pin of zinc-nickel plated steel
Fixing block in Zamak
Stainless steel grub screw

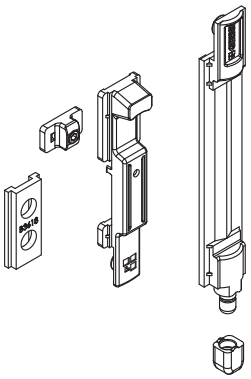
Type 1



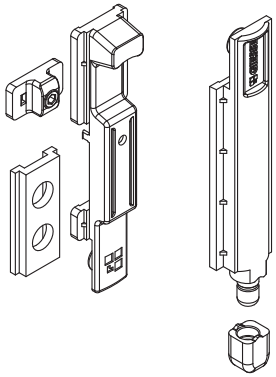
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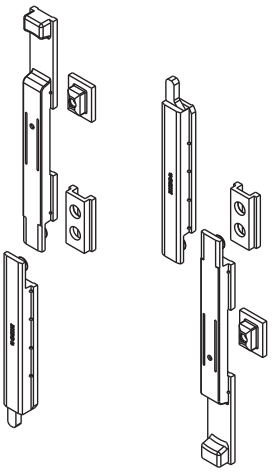
Type 3



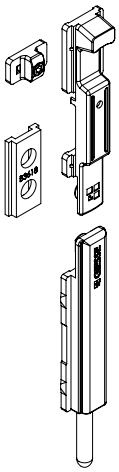
Type 4

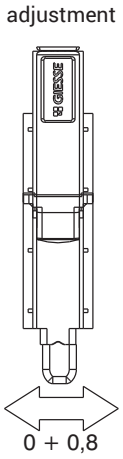


Type 5



Type 6





Item code	Description	Type	Groove (mm)	Adjustment (mm)	Discharged terminal	Offset terminal	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02106N	GIAP BOLT	2	15 ÷ 20	+ 0,8	-	-	X				50
02108	GIAP BOLT	3	15 ÷ 20	+ 0,8	YES	-	X				50
02108K	GIAP BOLT	3	15 ÷ 20	+ 0,8	YES	-	X				50
02111K	GIAP BOLT	4	15 ÷ 20	+ 0,8	-	-	X				50
02111N	GIAP BOLT	4	15 ÷ 20	+ 0,8	-	-	X				50
02112	GIAP BOLT	4	13,2 ÷ 16,8	+ 0,8	-	-	X				50
02112K	GIAP BOLT	4	13,2 ÷ 16,8	+ 0,8	-	-	X				50
02121	GIAP BOLT	4	15 ÷ 20	-	-	-	X				20
02125	GIAP BOLT	4	14 ÷ 18	+ 0,8	-	-	X				50
02125K	GIAP BOLT	4	14 ÷ 18	+ 0,8	-	-	X				50
02131	GIAP BOLT	5	15 ÷ 18	-	-	-	X				25
02131K	GIAP BOLT	5	15 ÷ 18	-	-	-	X				25
02132	GIAP BOLT	5	20 ÷ 23	-	-	-	X				25
02133	GIAP BOLT	4	23,6 ÷ 31	+ 0,8	-	-	X				50
02134	GIAP BOLT	5	20 ÷ 23	-	-	-	X				25
02138K	GIAP BOLT	3	13,2 ÷ 16,8	+ 0,8	YES	-	X				50
02164	GIAP BOLT	6	15 ÷ 20	-	-	YES	X				25
02165	GIAP MECHANISM	1	15 ÷ 20	-	-	-	X				50
02165K	GIAP MECHANISM	1	15 ÷ 20	-	-	-	X				50



GIAP BOLT SECONDARY SASH KIT

Functions

Secondary sash fastening mechanism with Giap bolt.
For use on the single casement of side hung windows.

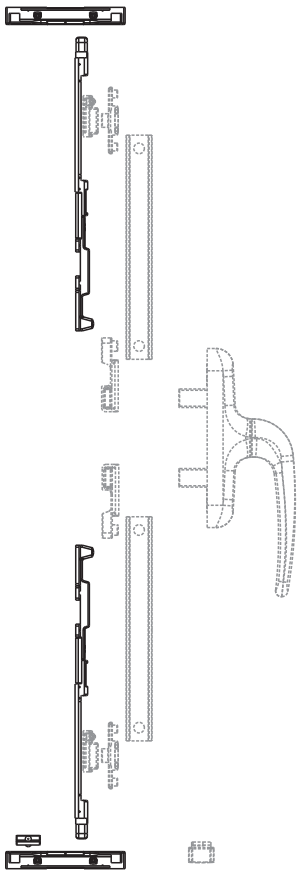
Online data sheet

Technical Features

The fastening mechanism is composed of two Giap bolts, closing strikers and a raising element.
The fastening mechanism is to be in addition to the Flash Base hinges.

Materials

Connecting blocks and raiser made of polyamide
Bolt tip and terminal bushing in polyamide
Plug in zamak
Double striker in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance)
Insert for striker and grub screws in stainless steel



Item code	Description	PROFILE CROSS - SECTION	Sash kit match	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02581K	KIT FOR SECONDARY SASH WITH GIAP BOLT	C001-C003-C005	02571K 02574K 02577K	X				10
02582K	KIT FOR SECONDARY SASH WITH GIAP BOLT	C002	02571K 02574K 02577K	X				10



TILT-AND-TURN WINDOW GIAP BOLTS

Functions

Bolt for Giesse tilt-and-turn secondary sash featuring polyamide terminals with eccentric pin that enables sash closing compression adjustment.

Online data sheet

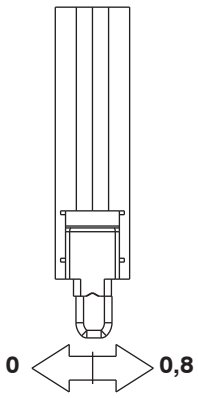
Technical Features

The bolt consists of a top and bottom bolt specially sized to be able to accommodate the closing (Upper) and anti-fall (Lower) strikers. It is fitted in the profile groove without machining and, after obtaining the correct positioning, fixed by tightening the grub screw pre-assembled on the fixing block. The supplied connecting plate can be replaced by the Giesse connection rod if the mechanism is to be sited in a non-standard position.

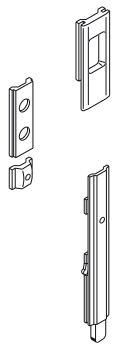
Materials

Extension in aluminium
Bolt mechanism, connecting element, terminal bush, upper and lower terminals in polyamide
Fixing plug in zamak
Screws and grub screws in stainless steel

adjustment



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0426001	T/T SECONDARY SASH GIAP BOLT	C010	15 ÷ 20	+ 0,8	X				10
04265K	T/T SECONDARY SASH GIAP BOLT	C007	15 ÷ 18	-	X				10
04266	T/T SECONDARY SASH GIAP BOLT	C008	20 ÷ 23	-	X				10
04267	T/T SECONDARY SASH GIAP BOLT	C009	15 ÷ 20	-	X				10
04274K	T/T SECONDARY SASH GIAP BOLT	C001-C003-C010-C011-C012-C015-C017	15 ÷ 20	+ 0,8	X				10
04277K	T/T SECONDARY SASH GIAP BOLT	C005	14 ÷ 18	+ 0,8	X				10
04278K	T/T SECONDARY SASH GIAP BOLT	C002-C014-C017	13,5 ÷ 16,8	+ 0,8	X				10



SUPERGIAP BOLTS

Functions

Direct activation bolt, especially strong, for aluminium casement window and door fixtures with central gasket seal.
Supplied in pairs.
For 20 mm groove.

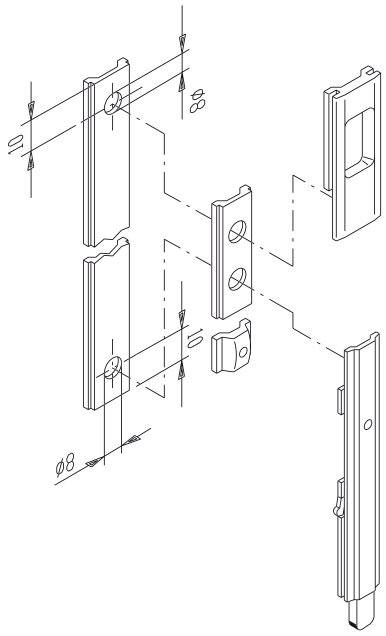
Online data sheet

Technical Features

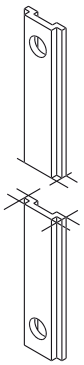
The bolt stroke is 18 mm.
Fits to the profile groove without any machining.
Once positioned, it secures with a block by tightening the pre-assembled M5 grub screw, with a 2.5 mm Allen key.
The terminal is equipped with a polyamide positioning spring.
The spring also has the feature of aiding the sliding and compensating for any extrusion tolerances or increased thickness due to painting.
The plate can be replaced by the connection rod.

Materials

Terminal pin of zinc plated steel.
Bolt tip body in zamak.
Pull recess, plate and spring in polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02153	SUPERGIAP BOLT		X				10



GIAP AND SUPERGIAP ACCESSORIES

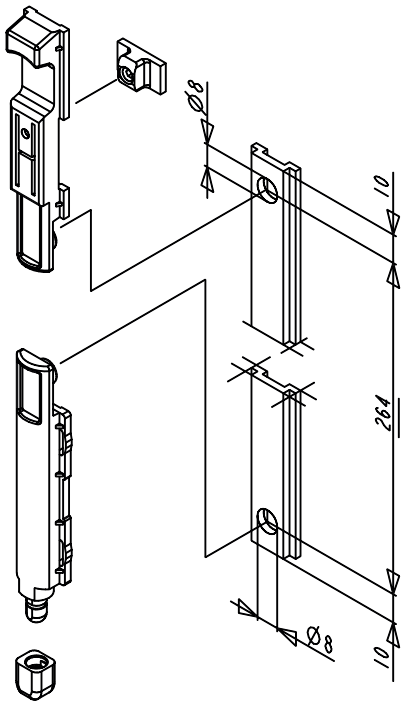
Functions

Rod to extend the GIAP bolt for 15-20 grooves.
The rod is used to extend the mechanism of the Giap bolt, instead of the connection plate.

Online data sheet

Materials

Fibreglass-reinforced polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02113	EXTENSION ROD FOR GIAP BOLTS	E.G. - ALLCO5		X			50



ADJUSTABLE BOLTS

Functions

Bolt for second sash, featuring zamak terminals that enable secondary sash closing compression adjustment.

Online data sheet

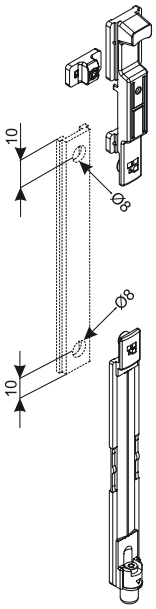
Technical Features

Specifically designed for use on overlap profiles with double channel.
It is fitted in the profile groove without machining and, after obtaining the correct positioning, fixed by tightening the grub screw pre-assembled on the fixing block.
The terminal is entirely in zamak and has a zamak bolt tip enabling ±1.5 mm adjustment in the closed position.
The supplied connecting plate can be replaced by the GIESSE o series connecting bracket if the mechanism is to be sited in a non-standard position.
The body of the terminal is equipped with vibration-damping leaf springs.
Adjustment
For adjustment, using a 2.5 mm Allen key just slacken the screw holding the terminal and bolt tip together, turn the bolt tip one or more steps in the required direction, then tighten the screw. Every step corresponds to a recovery of approx. 0.3 mm.

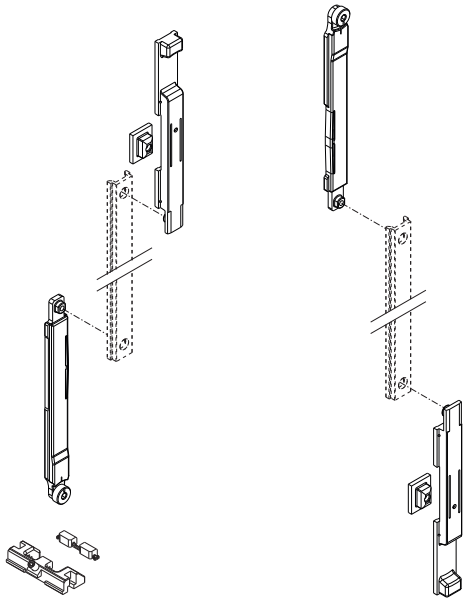
Materials

Mechanism and connecting element in polyamide.
Terminal and fixing plug in stainless steel or zamak depending on the model.
Screws and grub screws in stainless steel.

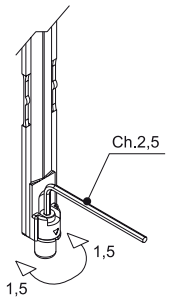
Article 02168K - 02166K



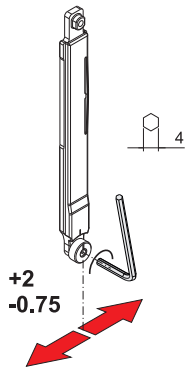
Article 04347



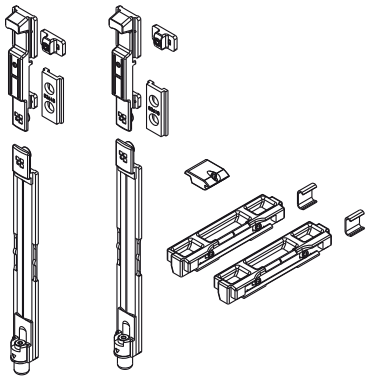
Adjustment Article 02168K - 02166K



Adjustment Article 04347



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Terminal	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02166K	FUTURA ADJUSTABLE BOLT	-	13,2 ÷ 16,8	Zamak	X				10
02168K	FUTURA ADJUSTABLE BOLT	-	15 ÷ 20	Zamak	X				10
04347	ERRE - ADJUSTABLE BOLT	-	15 ÷ 18	Zamak	X				10



ADJUSTABLE BOLT SECONDARY SASH KIT

Functions

Secondary sash fastening mechanism with adjustable bolt.
For use on the single casement of side hung windows.

Online data sheet

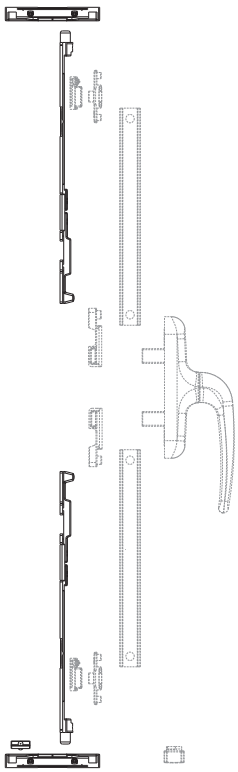
Technical Features

The fastening mechanism is composed of two adjustable bolts, two closing strikers and a raising element.
The fastening mechanism is to be in addition to the Flash Base hinges.

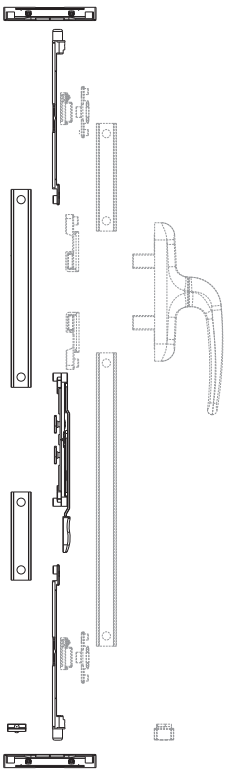
Materials

Connecting blocks, raiser and mechanism made of polyamide
Plug, terminal and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Insert for strikers and grub screws in stainless steel

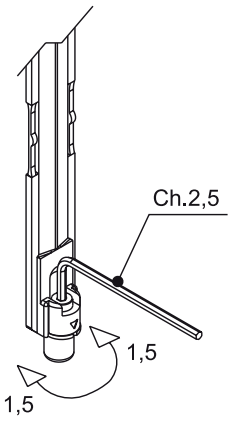
One-way bolt



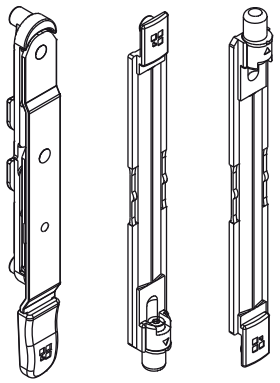
Two-way bolt



Adjustment



Item code	Description	PROFILE CROSS - SECTION	Sash kit match	Mechanism	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02585K	KIT FOR SECONDARY SASH-AD-JUSTABLE BOLT	C001	02571K - 02574K - 02577K	One-way	X				10
02587K	KIT FOR SECONDARY SASH-AD-JUSTABLE BOLT	C001	02571K - 02574K - 02577K - 02578K	Two-way	X				10



TWO-WAY BOLTS

Functions

Two-way lever bolt with mechanism enabling the closing of both terminals at the same time.

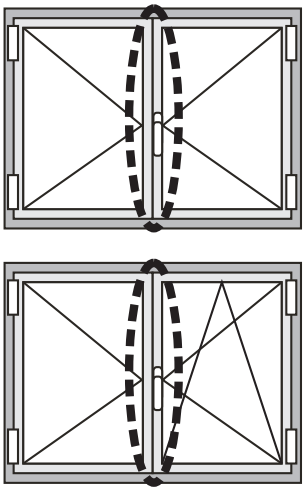
Online data sheet

Technical Features

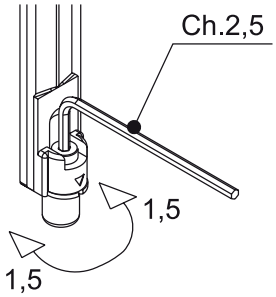
The bolt is composed of a lever-operated mechanism that transmits two-way movement to the connecting brackets, the ends of which are fitted to the terminals with the adjustable bolt tip.
Specifically designed for use on overlap profiles with double channel.
The mechanism is fixed by means of a specific element with two grub screws for clamp fixing and hence without having to machine the profile.
The body has two vibration-damping appendices.
Adjustment
The terminals are provided with a bolt tip enabling 1.5 mm adjustment in the closed position.

Materials

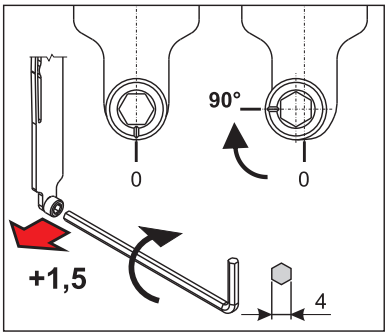
Mechanism body, terminal and bolt tip in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance).
Terminal and bolt tip article 02011 in stainless steel.
Mechanism lever and connecting bracket in stainless steel.
Lever cover in polyamide.
Screws and grub screws in stainless steel.



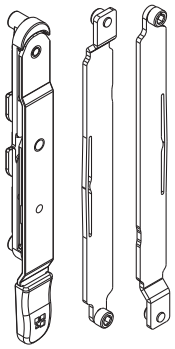
Type 1

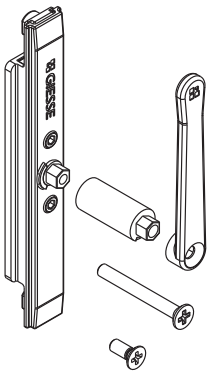


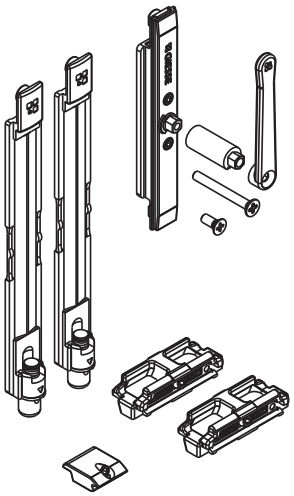
Type 2



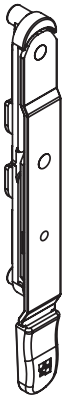
Type 3



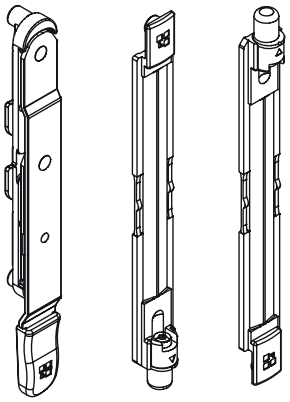




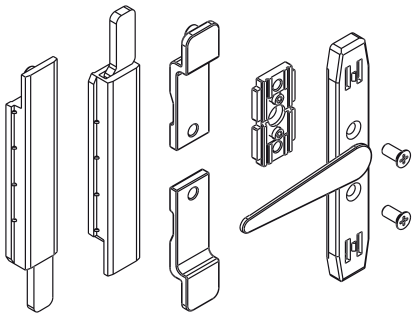
Type 4



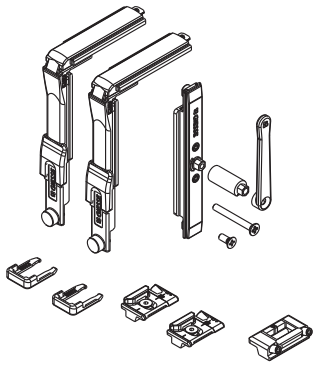
Type 5



Type 6



Item code	Description	PROFILE CROSS - SECTION	Type	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02011	FUTURA TWO-WAY BOLT	C002	1	13,2 - 16,8	+ 1,5	X				10
02156	TWO-WAY MECHANISM	-	2	-	-	X				10
02178	FUTURA TWO-WAY BOLT	-	3	15 - 20	± 1.5	X				10
02189K	TWO-WAY LEVER MECHANISM	-	4	-	-	X				20
02191K	FUTURA TWO-WAY BOLT	-	5	15 - 20	± 1.5	X				10
0219301	FUTURA TWO-WAY BOLT	-	6	20 - 23	-	X				10
02195K	FUTURA TWO-WAY BOLT	-	5	13,2 - 16,8	± 1.5	X				10
04231	TWO-WAY LEVER BOLT	C007	1	15 - 18	+ 2/-0.75	X				10



PERIMETRAL CLOSING

Functions

Provides perimeter locking of the secondary sash on the frame top and bottom cross beams.
It can be used both on double casement windows (additional profile) with double channel size 15/20 mm and inside the overlap, on the sash profile on which the overlap is fitted.

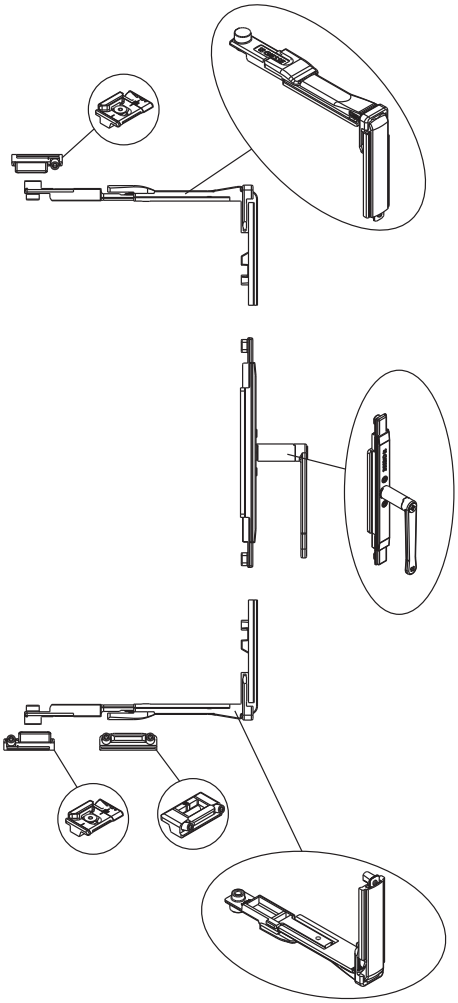
Online data sheet

Technical Features

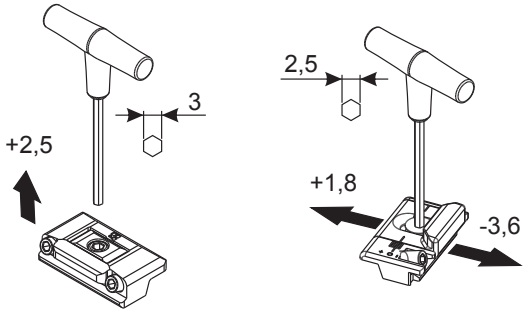
The perimetral closing is composed of a two-way lever mechanism (which has an extension in case the hardware slides under the overlap profile), two Futura corner drives, two adjustable locking strikers and a raiser.
The mechanism is fixed with the contrast grubscrews on the profile. This device enables fully closing the secondary sash, while also being able to increase the number of points by adding closing pawls and their strikers onto the polyamide rod that joins with the corner drives.

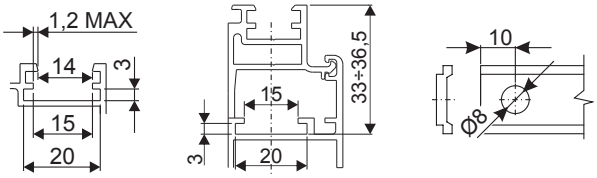
Materials

Corner drive, closing striker, mechanism, extension and lever in GS Silver Plus zamak
Sash-raiser striker made of polyamide
Screws and grub screws in steel

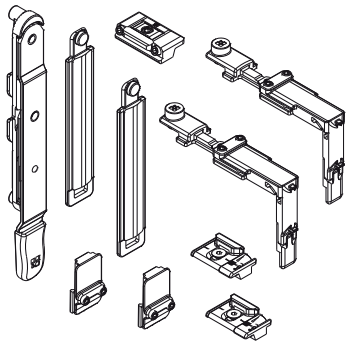


Adjustments





Item code	Description	Groove (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02179	PERIMETRAL TWO-WAY FASTENING MECHANISM	15 ÷ 20	+ 1.8 / - 3.6	X				10



PERIMETRAL FASTENING MECHANISM FOR FUTURA SECONDARY SASH

Functions

Provides perimeter locking of the secondary sash on the frame top and bottom cross beams. For use on secondary sashes (additional profiles) with double channel of dimensions 15 to 20 mm.

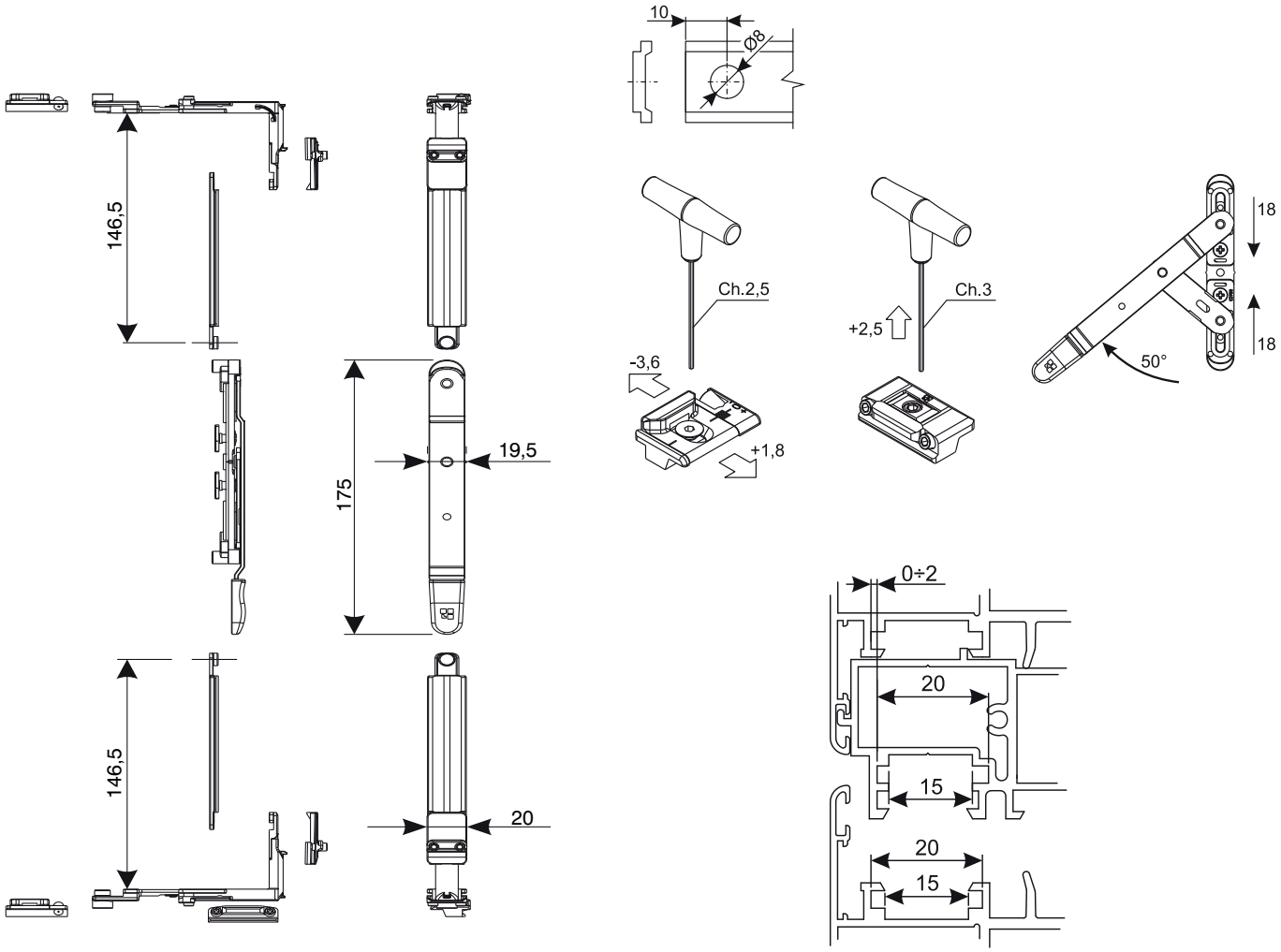
Online data sheet

Technical Features

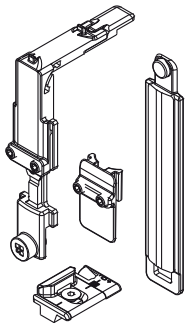
The perimetral closing for secondary sash consists of a two-way lever mechanism, two corner bolts and respective strikers. This product enables total fastening of the secondary sash with the creation of several locking points (two standard with the possibility of creating as many as necessary, adding pawls on the connection rod and locking strikers on the frame) on the frame cross beams.

Materials

Connection rods, corner drive and closing striker made of zamak
Mechanism body made of zamak
Mechanism lever and connecting bracket in steel
Cover for lever and lifter striker made of polyamide
Screws and grub screws in steel



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02186K	PERIMETRAL FASTENING MECHANISM FOR FUTURA SECONDARY SASH	silver plus	X				10



FUTURA CORNER BOLT

Functions

Corner bolt enabling the locking of secondary sashes on the top and bottom cross beams of the frame. For use on secondary sashes (additional profiles) with double channel of dimensions 15/20 mm (bottom channel).

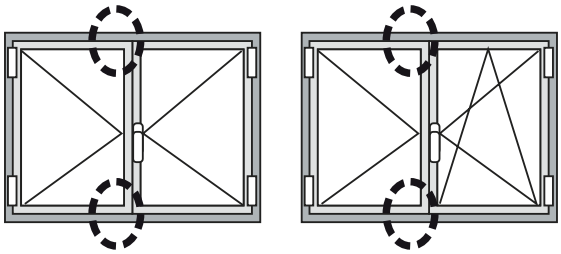
Online data sheet

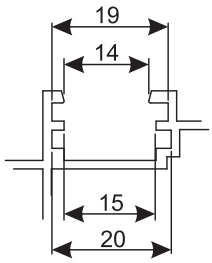
Technical Features

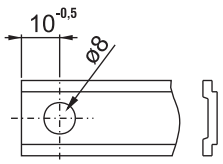
The bolt is equipped with an adjustable striker which allows a compression adjustment of ± 1.8 mm.
The application requires the beat continuity plugs to be appropriately unloaded in order to allow the hardware to pass on the top and bottom cross beams.

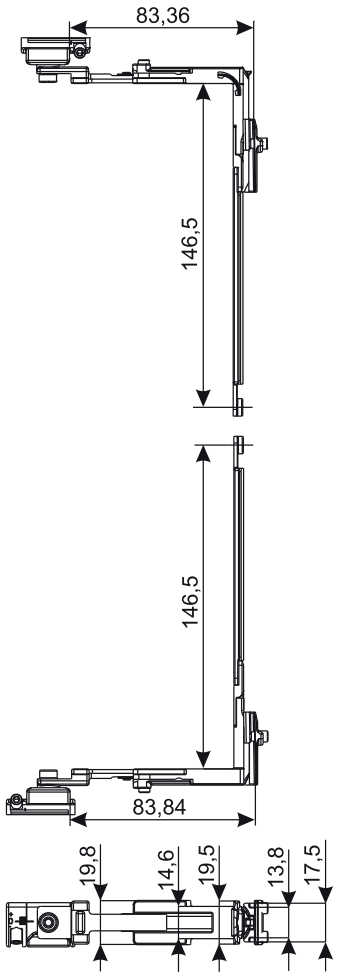
Materials

Corner drive, connection rod, locking striker, drive clip in zamak GS PLUS SILVER (OVER 500h corrosion resistance)
Screws and grub screws in stainless steel









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04045K	FUTURA CORNER BOLT	silver plus	X				10



INCA BOLTS

Functions

Bolt for tilt-and-turn secondary sash featuring zamak terminals equipped with adjustable lock strikers for the pawls of the corner drive and of the bolt tip of the tilt-and-turn window.

Online data sheet

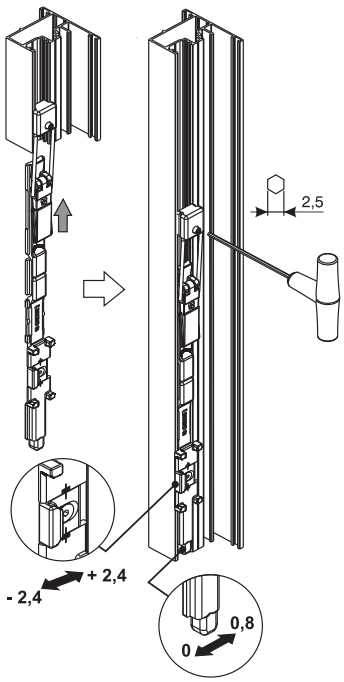
Technical Features

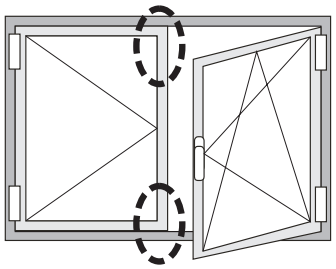
The strikers supplied enable the same adjustment of ±2.4 mm.
Specifically designed for use on assembled profiles with a single channel, although also compatible with double channel profiles.
The two terminals are equipped with a steel bolt tip that can be combined with an eccentric bushing for closing position adjustment.

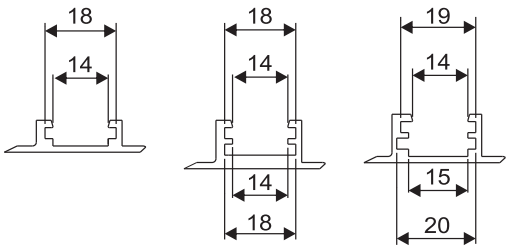
Materials

Terminal, bolt tip and fixing block in GS Silver Plus zamak.
Connection rod and bolt tip in polyamide.
Mounting grubscrew for bolt and bolt tip in zinc plated steel.

Assembly and adjustment







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04280	INCA BOLT		X				5
04282K	T/T FUTURA SECONDARY SASH BOLT	E.G. - frame 14/18 - silver plus	X				5
04287	INCA BOLT	METRA - 13.6/16.8	X				5



TOTEM BOLTS

Functions

One-way lever bolt to mount in a channel, indicated in doors made with window profile.

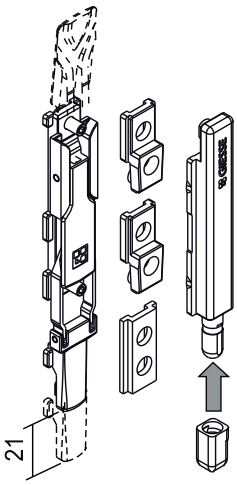
Online data sheet

Technical Features

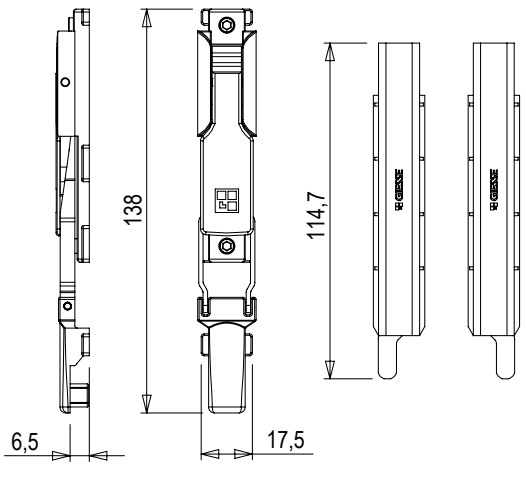
Bolt suited for mounting on doors for frequent use (use category 4 - very heavy duty use - In compliance with EN12051: 1999).
Reversible it is applied both at the top and at the bottom of the door.
Bolt tip with cut-proof characteristics, in order to ensure a great hold on the strikers and high break-in security.
Bolt tip stroke 21 mm.
Compression adjustment +0.6 mm on the strikers with the eccentric bush provided (except on the version for groove 15x18).
Fixing to the profile with the two pre-assembled fixing grub screws, without any machining on the profile.
It is possible to extend the bolt by using the specific rod in the series, positioned between the connecting element and the terminal.
Mechanisms and bolt tips can also be ordered separately so as to allow different combinations.

Materials

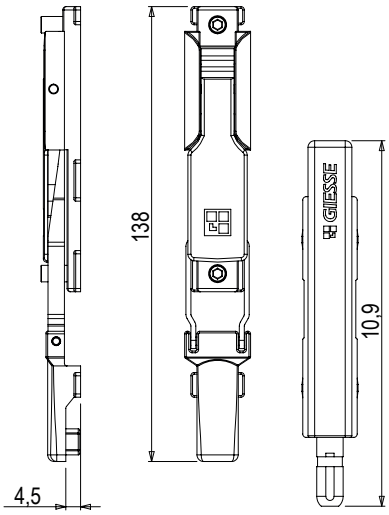
• Operating base and element for connecting to the bolt tip made of zamak
• Zamak operating lever with polished chrome (high corrosion resistance)
• Spring, connecting brackets, pins and fixing grub screws made of stainless steel
• Bolt tip made of cut-proof carbonitrided steel with Giesse Silver Plus finish (up to 500 h corrosion resistance)
• Terminal, connecting block, bolt tip cap eccentric bush and “Z” blocks made of polyamide



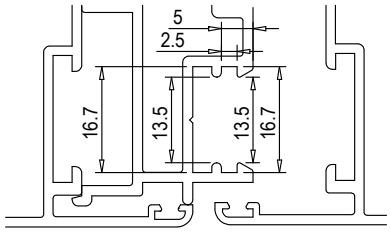
Scheme for art. 02075
Dimensions of mechanism and bolt tip



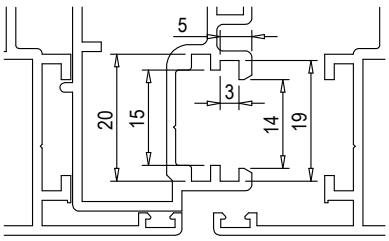
Scheme for art. 02071-02072-02073-02074
Dimensions of mechanism and bolt tip



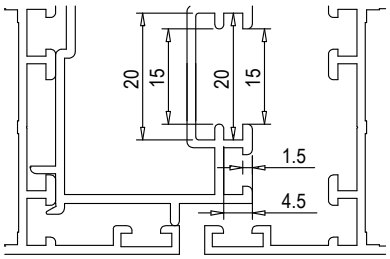
Sect. 1 - Groove 13.5x16.7



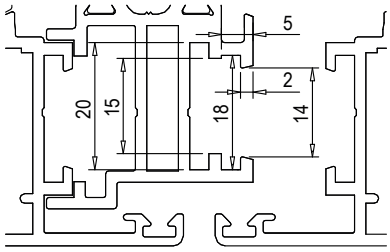
Sect. 2 - Groove 14x19



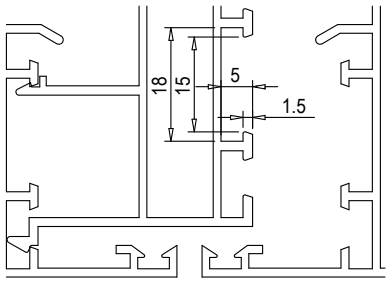
Sect. 3 - Groove 15x20



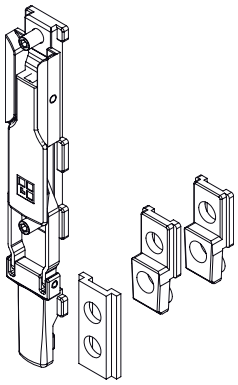
Sect. 4 - Groove 14x18



Sect. 5 - Groove 15x18



Item code	Description	Groove	Adjustment	Offset terminal	Dimensions bolt tip	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02071	TOTEM BOLT	13.5x16.7	+ 0.6 mm	NO	Ø 8 mm	sect.1			X		10
02072	TOTEM BOLT	14x19	+ 0.6 mm	NO	Ø 8 mm	sect.2			X		10
02073	TOTEM BOLT	15x20	+ 0.6 mm	NO	Ø 8 mm	sect.3			X		10
02074	TOTEM BOLT	14x18	+ 0.6 mm	NO	Ø 8 mm	sect.4			X		10
02075	TOTEM BOLT	15x18	-	YES	4x6 mm	sect.5			X		5
02177K	TOTEM BOLT	14x18	+ 0.8 mm	NO	Ø 6 mm	sect.4	X				10



TOTEM MECHANISMS

Functions

Zamak lever mechanism to be combined with Giesse fastening mechanism terminals.

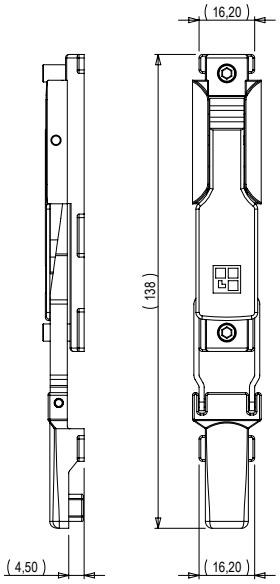
Online data sheet

Technical Features

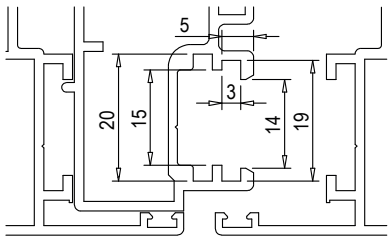
Reversible mechanism suitable for application on doors for frequent use, to be applied in a channel both at the top and at the bottom of the door.
Can be combined with the corresponding terminals using the connecting block supplied with the mechanism or with the specific rod in the series, cut to the desired size for the bolt extension.
Fixing to the profile with the pre-assembled fixing grub screws, without any machining on the profile.

Materials

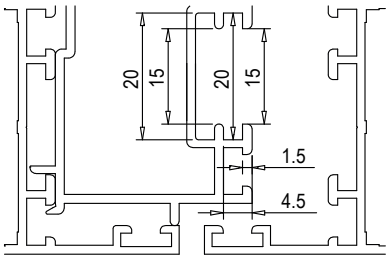
- Operating base and element for connecting to the bolt tip made of zamak
- Zamak operating lever with polished chrome (high corrosion resistance)
- Spring, connecting brackets, pins and fixing grub screws made of stainless steel
- Connecting block and “Z” blocks made of poly-amide



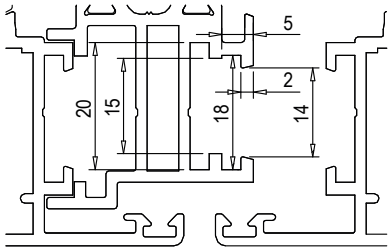
Sect. 2 - Groove 14x19



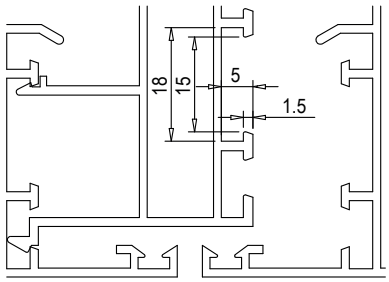
Sect. 3 - Groove 15x20



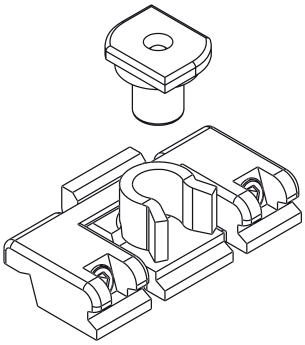
Sect. 4 - Groove 14x18



Sect. 5 - Groove 15x18



Item code	Description	Groove	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02742	TOTEM MECHANISM	14x19	sect.2			X		10
02743	TOTEM MECHANISM	15x20	sect.3			X		10
02744	TOTEM MECHANISM	14x18	sect.4			X		10
02745	TOTEM MECHANISM	15x18	sect.5			X		10



SASH STOP

Functions

The sash stop is fitted on sash casements of central gasket aluminium frames with the function of keeping the sash locked in the closed position.
The casement can be unlocked by simply pressing on the casement.
Invaluable for French windows and balcony doors.

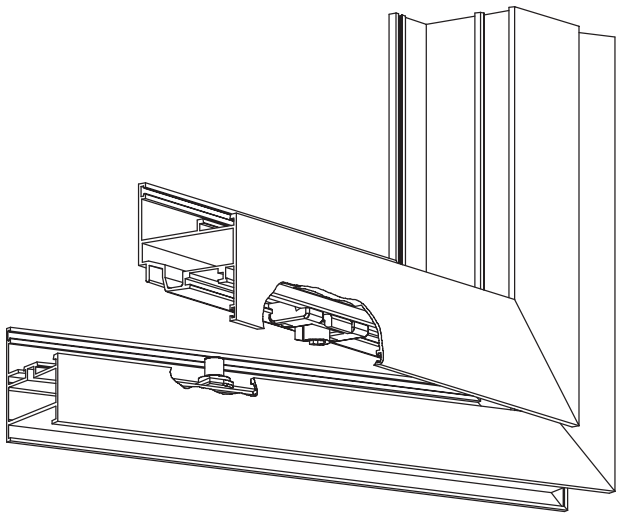
Online data sheet

Technical Features

The sash stop is fitted by clamping in the profile channels, therefore very simple and fast because there is no machining.
Fitting is possible also at a later time, at the discretion of the window maker or customer.
With the holding device activated the sash can be opened or closed by applying manual pressure without having to operate a release device.
Highly recommended for French windows (often without locks operated from the outside) which require locking on closing (after exiting) to avoid loss of warm or conditioned air to the outside.

Materials

Striker and pin in fibreglass loaded polyamide
Polyamide spring
Stainless steel grub screws



Item code	Description	PROFILE CROSS - SECTION	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02198	SASH STOP	C007-C008	Black	X				50
02198K	SASH STOP	C007-C008	Grey	X				50
02199	SASH STOP	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	Black	X				50



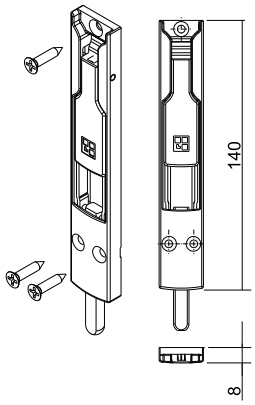
MAYA BOLTS

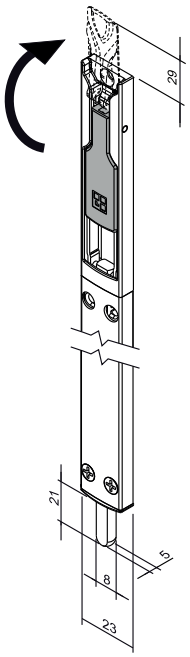
Functions
One-way lever bolt with reduced size for door profile.

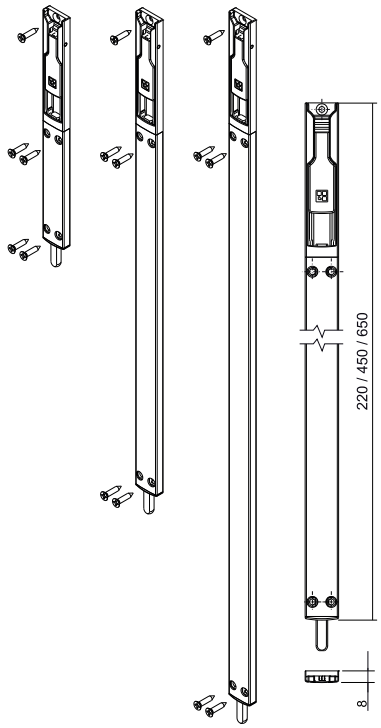
Online data sheet

Technical Features
Bolt suited for mounting on doors for frequent use (use category 4 - very heavy duty use - In compliance with EN12051: 1999).
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip with features of high break-in security.
Bolt tip stroke 21 mm.
Section of the bolt tip 8x5 mm.
Fixing to the profile with self-tapping screws.
Modular protective cover in aluminium.
Available in lengths of 140, 220, 450 and 650 mm to choose from depending on the best position for the thrust lever, depending on the height of the door.
Possible also in various other lengths, depending on the particular application needs.

Materials
- Body made of painted zamak
- Zamak operating lever with polished chrome (high corrosion resistance)
- Extruded aluminium modular cover
- Spring, connecting brackets, pins and fixing screws made of stainless steel
- Stainless steel bolt tip (high corrosion resistance)







Item code	Description	Length	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02080	MAYA BOLT	140 mm	8x5 mm			X		10
02081	MAYA BOLT	220 mm	8x5 mm			X		10
02082	MAYA BOLT	450 mm	8x5 mm			X		10
02083	MAYA BOLT	650 mm	8x5 mm			X		10

DOOR TOTEM BOLTS



Functions
One-way lever bolt for door profile.

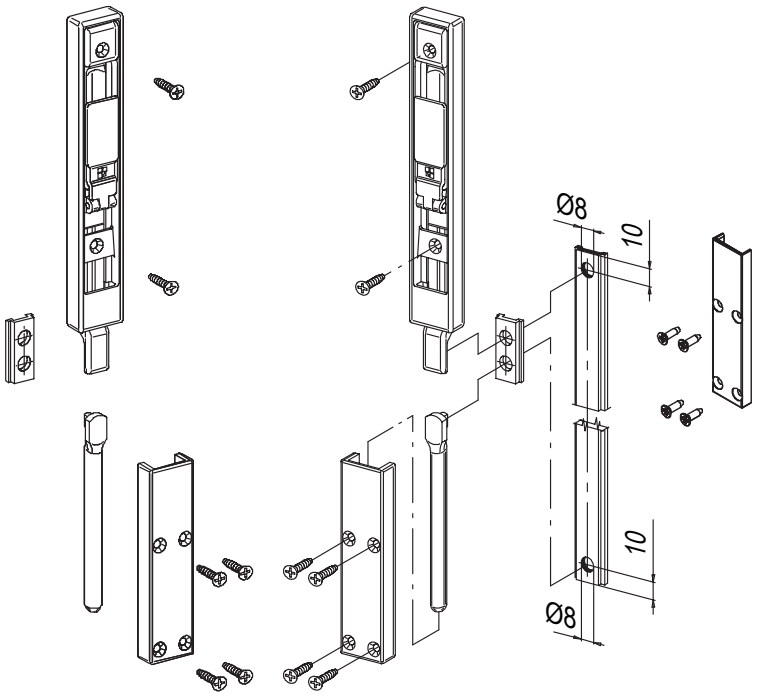
Online data sheet

Technical Features
Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip with features of high break-in security.
Bolt tip stroke 20 mm.
Section of the bolt tip 8x7 mm.
Fixing to the profile with self-tapping screws.
It is possible to extend the bolt by using the specific rod in the series, positioned between the connecting element and the terminal.

Materials
Slider and block in black painted zamak
Body and bolt tip guide in polyamide
Cut-proof 8x7 mm bolt tip in carbonitrided steel
Operating lever in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Spring, connecting brackets and pins in stainless steel
Polyamide connecting plate
Black oxidized aluminium fixing plate (only for art. 02185)
Blackened stainless steel fixing screws
Blackened stainless steel mounting grubscrew (only for art. 02185)

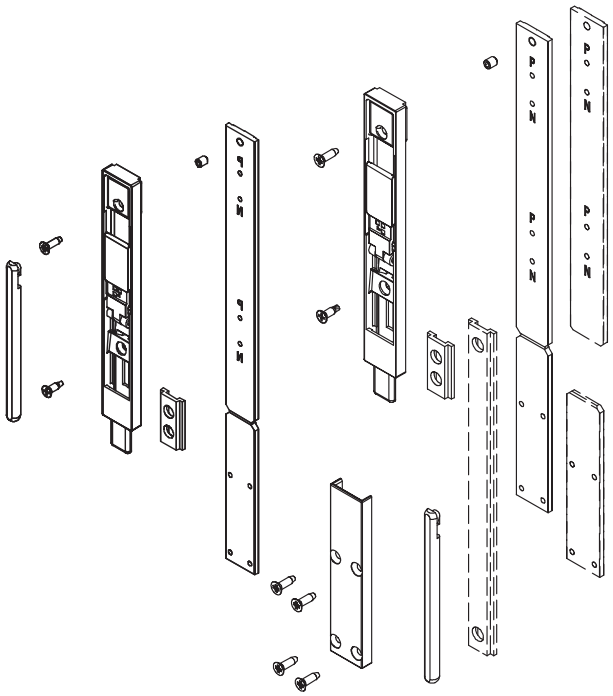
art. 02170

Application of extension with art. 02170

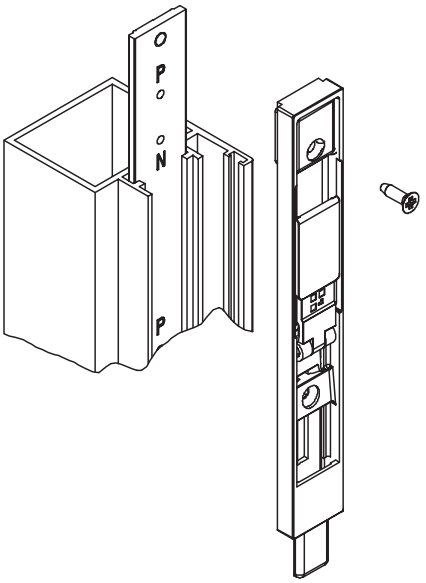


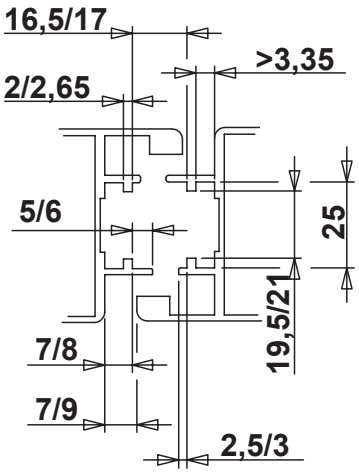
art. 02185

Application of extension with art. 02185



Assembly art. 02185





Item code	Description	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02170	TOTEM DOOR BOLT	8x7 mm	X				10
02185	TOTEM DOOR BOLT	8x7 mm	X				10



PESOS BOLTS

Functions

One-way recessed lever bolt for doors.
To be combined with the aluminium front cover.

Online data sheet

Technical Features

Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
The lever operation allows you to gradually exert a great force on the bolt tip.
Bolt tip stroke 18 mm.
It is recessed, by machining the profile.
Prepared for a double drilling diameter, it uses operating rods of Ø 6 mm or Ø 8 mm.
Can be combined with the casing that can be painted in standard RAL colours to be fitted onto the body of the bolt.
The bolt can be combined:
• to the safety terminal Ø 8 mm with cut-proof characteristics, in order to ensure a great hold on the strikers and high burglar resistance. It is joined to the bolt with an M6 threaded die cut to size by the user
• to the reversible rod guide, with double holes for rods Ø6 and Ø8 to be applied on the uprights in the case of kickplates, to keep the terminal in line inside the tubular profile.

Materials

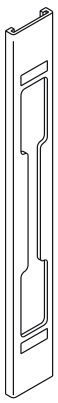
Bolt and front cover
• Body and lever made of die-cast zamak
• Tempered steel springs
• Extruded aluminium cover
• Stainless steel fixing screws

Security terminal
• Pin Ø8 made of cut-proof carbonitrided steel

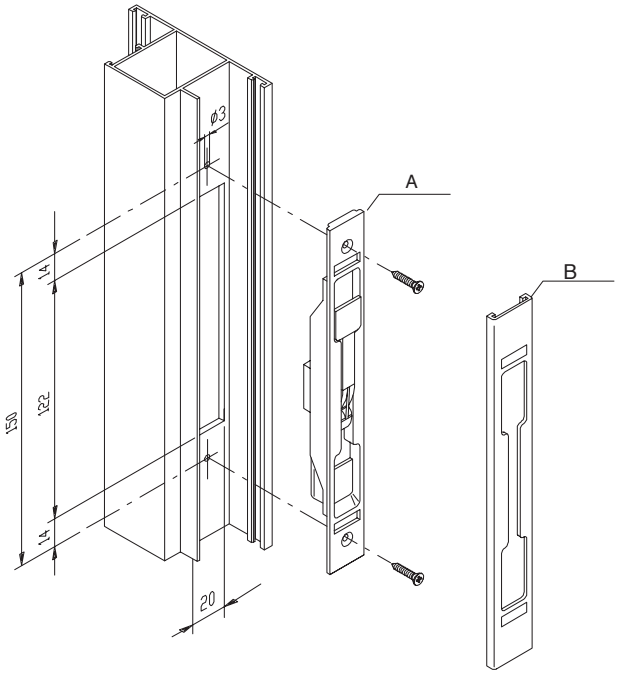
Rod guide
• Zinc plated steel



art. 02151

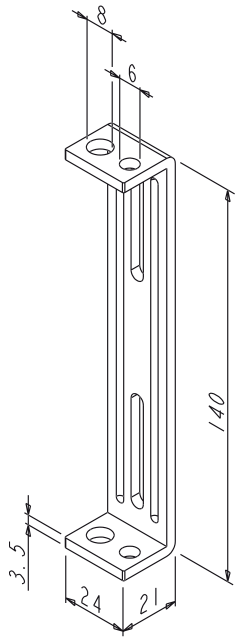


A = art. 02150
B= art. 02151

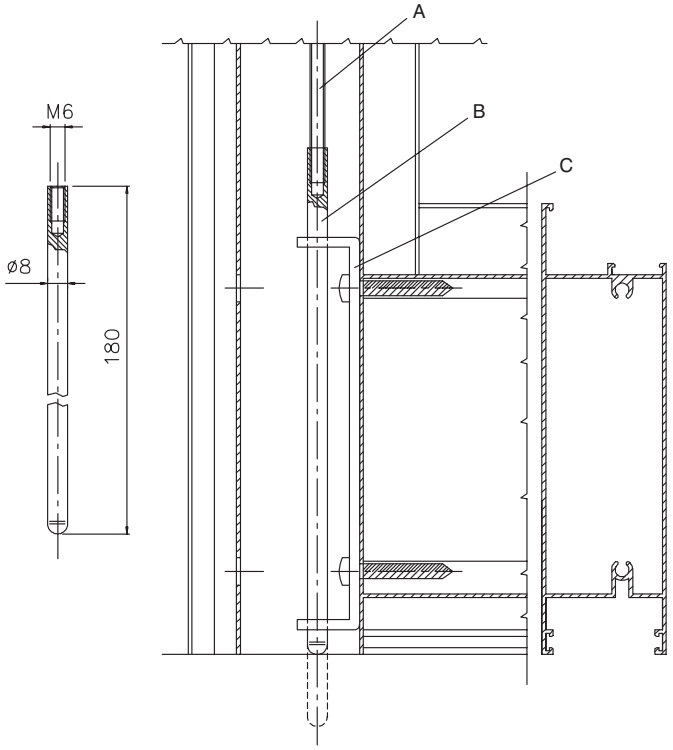


DOOR BOLTS

art. 02340



A = M6 threaded die
B= terminal art. 02158
C= rod guide art. 02340



Item code	Description	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02150	PESOS BOLT	Ø6/Ø8 mm	X				10
02151	PESOS FRONT COVER		X	X	X	X	50
02158	SECURITY TERMINAL FOR PESOS	Ø8 mm	X				50
02340	GUIDE FOR ROD		X				50



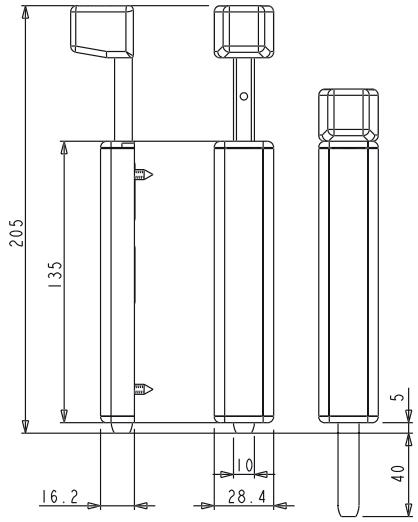
BULL BOLTS

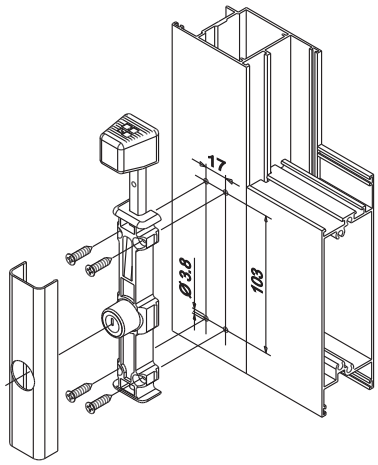
Functions
Front application one-way bolt for doors.

Online data sheet

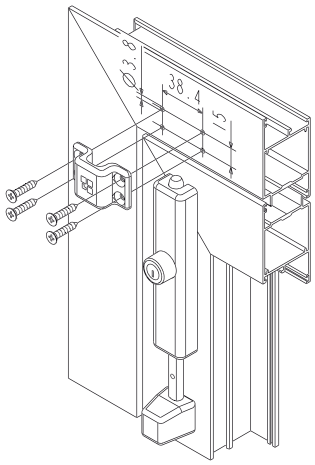
Technical Features
Bolt suited for mounting on doors for frequent use.
Normally used as an extra security fastening mechanism on doors of any type.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
Bolt tip in stainless steel (corrosion-proof) of Ø 10 mm.
Bolt tip stroke 40 mm.
Notch positioning for immediate perception of the opening and closing position (Giesse patented system).
Fixing to the profile with self-tapping screws. The bolt body may be used as a template for drilling fixing holes.
The casing to be snap-fixed on the body of the bolt hides the fixing screws.
Available in version with key and without key.
Can be combined with the front mounting striker plate, for fastening on the top cross beam of the door or of a counter-frame.
The striker is equipped with no.4 shims for application to profiles with a step.

Materials
Bolt
• Body made of die-cast zamak with GS 500 finish
• Stainless steel bolt tip (high corrosion resistance)
• Black polyamide handle
• Fixing screw cap casing made of extruded aluminium
• Stainless steel fixing screws
Striker plate
• Striker plate made of die-cast zamak with GS 500 finish
• Polyamide shims (black)
• Blackened stainless steel fixing screws





Bull bolt striker assembly



Item code	Description	Version	Dimensions bolt tip	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02180	BULL BOLT	without key	Ø 10 mm	X	X	X	X	5
02181	BULL BOLT	with key	Ø 10 mm	X	X	X	X	5
02182	BULL BOLT STRIKER PLATE			X				20



STELVIO BOLT

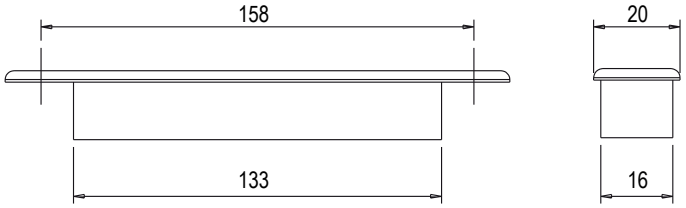
Functions
One-way recessed lever bolt for doors.

Online data sheet

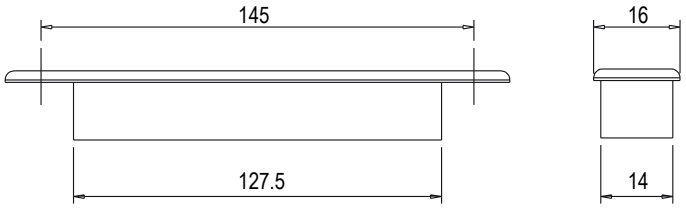
Technical Features
Bolt suited for mounting on doors for frequent use.
Reversible it is applied on the profile, both at the top and at the bottom of the door.
The lever operation allows you to gradually exert a great force on the bolt tip.
Bolt tip stroke 16 mm.
It is recessed, by machining the profile.
Compatible with threaded rods of Ø 6 mm.
Two versions are available, with different C/C distance for fixing to the profile.

Materials
- Extruded aluminium body
- Internal fastening mechanisms and levers made of polyamide
- Tempered steel springs
- Connecting brackets and fixing screws made of zinc plated steel

Article 02101



Article 02102



Item code	Description	C/C distance	Width	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02101	STELVIO BOLT	158 mm	20 mm	X	X	X		50
02102	STELVIO BOLT	145 mm	16 mm	X	X	X		50

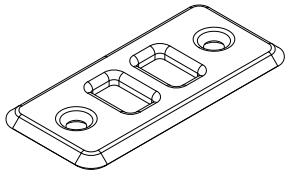


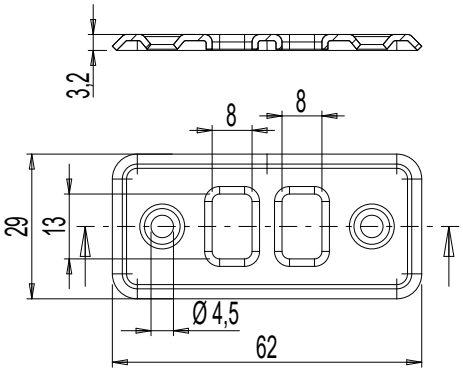
FLOOR STRIKER PLATES

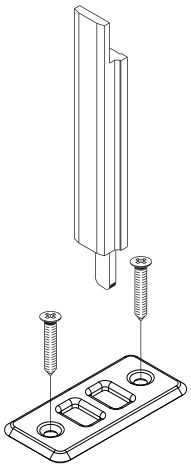
Functions
Strikers and bushings to combine with rods and bolts, if the threshold is used as counter-frame.

Online data sheet

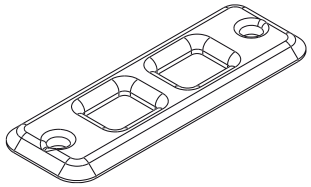
01320

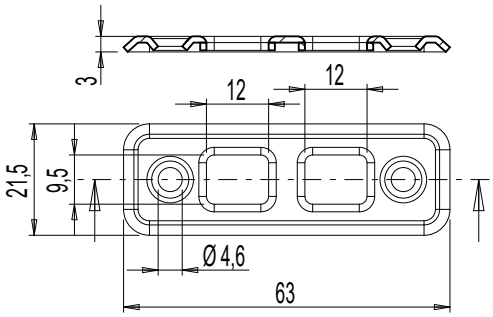


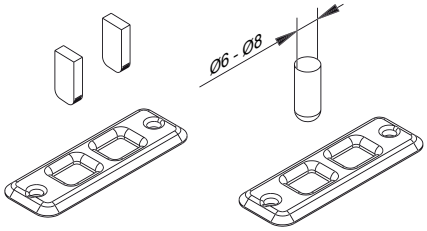




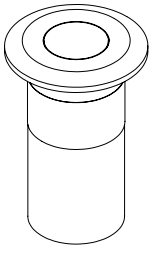
01326

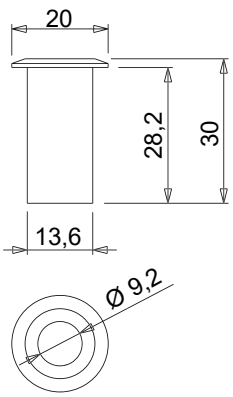






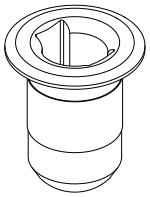
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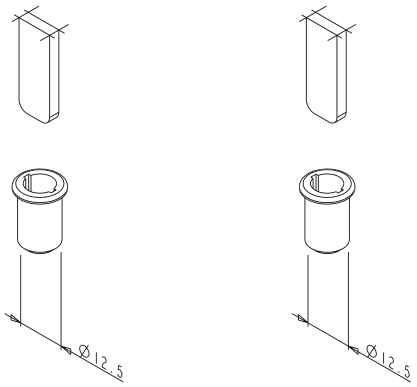


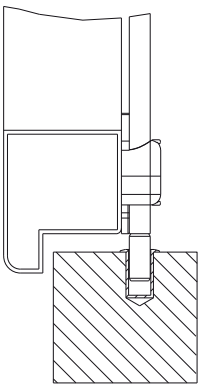


DOOR BOLTS

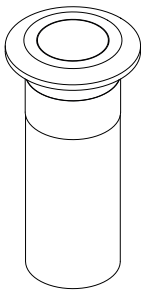
02159

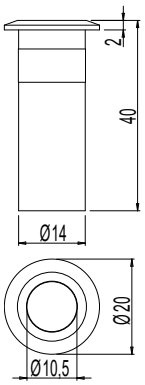


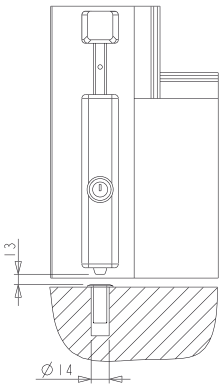




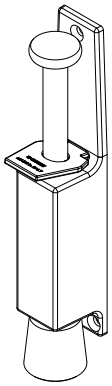
02183

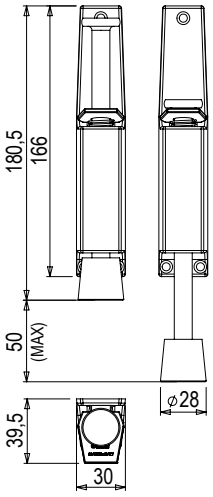


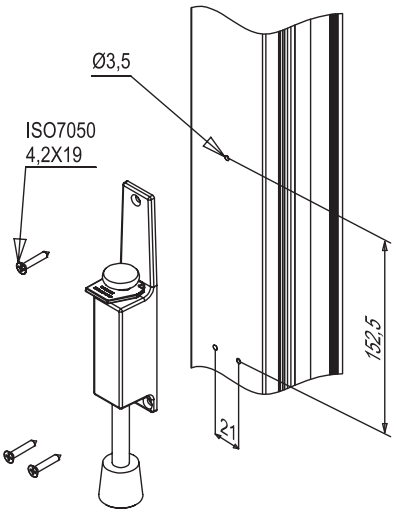




03901







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01320	ROD STRIKER PLATE for sill	stainless steel	X				100
01326	ROD STRIKER PLATE FOR SILL		X				100
02144	THRESHOLD BUSH WITH SHUTTER		X				100
02159	THRESHOLD BUSH		X				50
02183	BULL BOLT THRESHOLD BUSH		X				20
03901	DOOR STOP		X				20



FUTURA ADJUSTABLE TERMINALS

Functions

Terminal equipped with adjustable offset terminal, to recover the play that can form during operation of the window.

Online data sheet

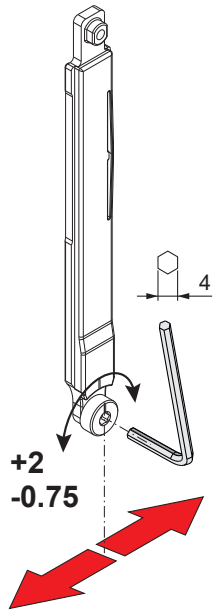
Technical features

Adjustable terminal for use on main sash and/or on secondary sash (additional profiles) with channels of dimensions 15 to 20 mm.
Adjustable terminal for use on main sash and/or on secondary sash.

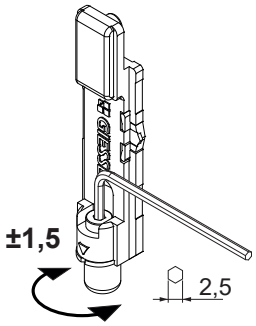
Materials

Body and terminal in GS Silver Plus zamak (over 500 hours of corrosion resistance)

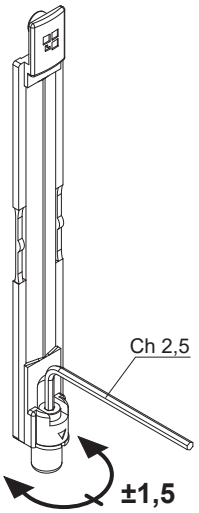
02085



02167K



02188K



Item code	Description	PROFILE CROSS - SECTION	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02085	ERRE 40 ADJUSTABLE TERMINAL	C007	+2 / -0,75	X				40
02167K	FUTURA ADJUSTABLE TERMINAL	C001-C002-C003-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017	±1.5	X				40
02188K	FUTURA ADJUSTABLE TERMINAL	C001-C002-C003-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017	±1.5	X				40



TOTEM TERMINALS

Functions

Polyamide terminal with steel bolt tip for fixing sashes to the frame cross beams.

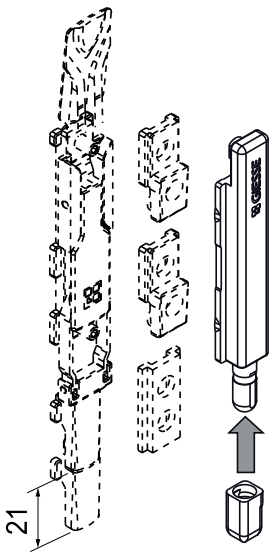
Online data sheet

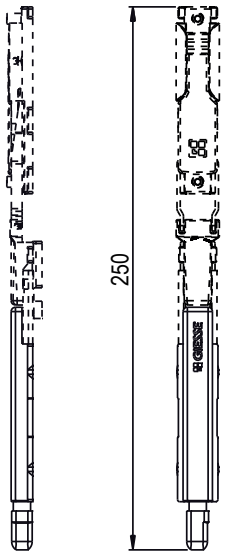
Technical Features

Bolt tip suited for mounting on doors for frequent use, with cut-proof characteristics, in order to ensure a great hold on the strikers and high break-in security.
Reversible it is applied both at the top and at the bottom of the door.
Stroke is 21 mm.
Compression adjustment +0.6 mm on the strikers with the eccentric bush provided with all versions, except for the one for groove 15x18.
Fixing to the mechanism using the connecting block supplied with the mechanism or with the specific rod in the series, cut to the desired size for the bolt extension.

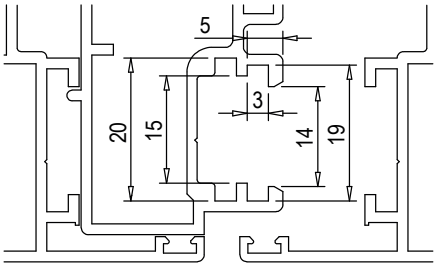
Materials

Terminal and eccentric bush covering bolt tip in polyamide
Bolt tip made of cut-proof carbonitrided steel with Giesse Silver Plus finish (up to 500 h corrosion resistance)

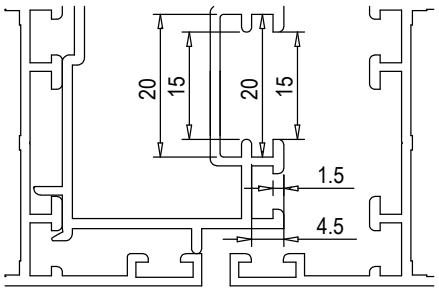




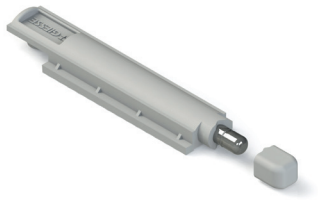
Sect. 2 - Groove 14x19



Sect. 3 - Groove 15x20



Item code	Description	Groove	Adjustment	Offset terminal	Dimensions bolt tip	Drawing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02143N	TOTEM TERMINAL	15x20	+ 0.6 mm		Ø 8 mm	sect.3	X				50
02145N	TOTEM TERMINAL	14x19	+ 0.6 mm		Ø 8 mm	sect.2	X				50



TERMINALS

Functions

Polyamide terminal for rods with steel pin for fixing sashes to the frame cross beams.

Online data sheet

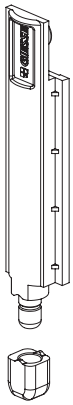
Technical Features

For the direct fixing where mounting is required in conjunction with the strikers, you will have to engage the supplied polyamide adjustable bush on the pin to achieve a perfect coupling.
To mount on GIESSE locking rods, in the same way the rod is mounted to the connecting block.

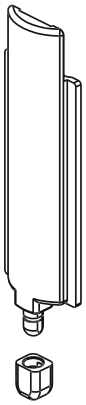
Materials

Body and bush in polyamide with fibreglass.
Terminal pin of zinc-nickel plated steel.

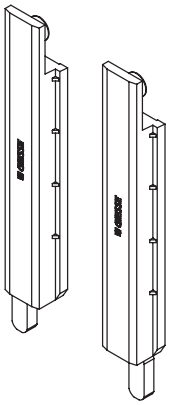
Type 1



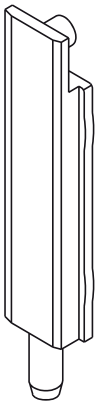
Type 2



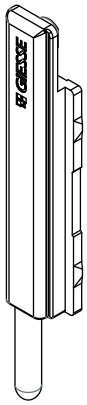
Type 3



Type 4



Type 5



Item code	Description	Type	Groove (mm)	Offset terminal	Adjustment (mm)	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02114	TERMINAL FOR RODS	1	15 ÷ 20	-	+ 0,8	Black	X				50
02114K	TERMINAL FOR RODS	1	15 ÷ 20	-	+ 0,8	Grey	X				50
02140	TERMINAL FOR RODS	2	23,6 ÷ 31	-	+ 0,8	Black	X				50
02141	TERMINAL FOR RODS	3	15 ÷ 18	-	-	Black	X				25
02141K	TERMINAL FOR RODS	3	15 ÷ 18	-	-	Grey	X				25
02142	TERMINAL FOR RODS	3	20 ÷ 23	-	-	Black	X				25
02146	TERMINAL FOR RODS	4	20 ÷ 23	-	-	Black	X				50
02147	TERMINAL FOR RODS	4	20 ÷ 23	-	-	Black	X				25
02161	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				25
02162	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				50
02163	TERMINAL FOR RODS	5	15 ÷ 20	YES	-	Black	X				50



CORNER DRIVES

Functions

Component for moving the hardware from the cremone side to the upper and/or lower cross-beam.

Online data sheet

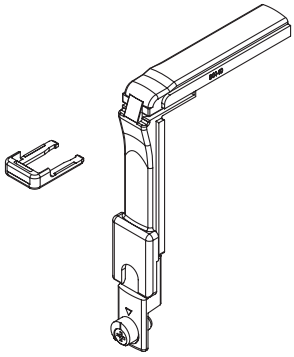
Technical Features

Reversible, right/left, it is mounted with no need to machine the profile.
Snap-fitting, it is removed with a screwdriver.
Some models are equipped with a fixed pawl with which, in combination with an adjustable striker, to make a locking point on the cremone side or on the cross-beam.

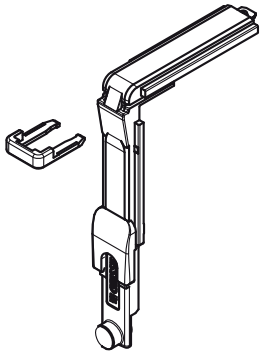
Materials

Body, connection device and clip made of zamak with GS Silver Plus finish (over 500 h of corrosion resistance)
Grub screws and plates in stainless steel

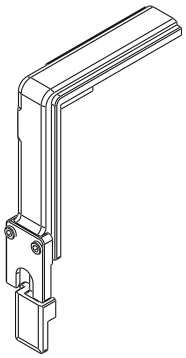
Art. 04017K



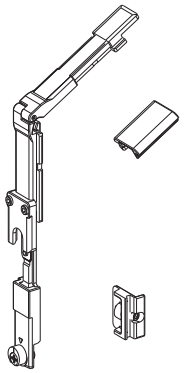
Art. 04019K



Art. 04020K



Art. 04023K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04017K	FUTURA CORNER DRIVE	C007	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04023K	VARIABLE CORNER DRIVE	C001-C002	-	-	X				10



CONNECTION RODS

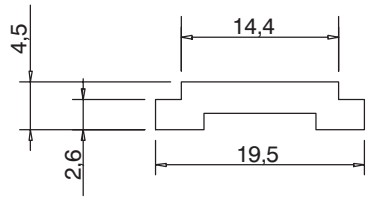
Functions
Connection rod for the operating mechanism.

Online data sheet

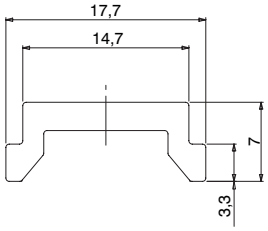
Technical Features
Specially made to be machined, as in the figure, by the semiautomatic machines PM008 and PA009 and by the automatic machines GS003, GS008, GS009 and TF10.
Roll packing makes for considerable reductions in overall dimensions, since a roll of diameter 90 cm contains the equivalent of over 40 bars of 6 m of aluminium.
The rod extension element enables fitting the incorrect movement safety striker and the fastening striker on the central upright on casements with two sashes where the bolt is located.

Materials
Fibreglass-reinforced polyamide

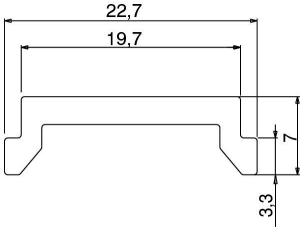
Art. 03524N



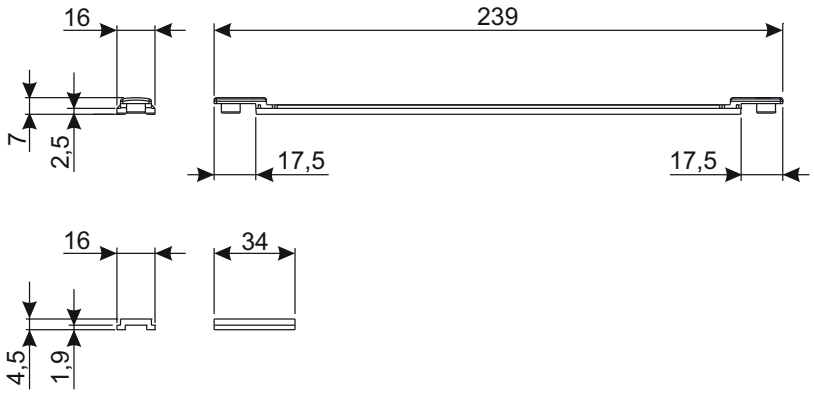
Art. 03525



Art. 03526N



Art. 02187-02187K



Item code	Description	PROFILE CROSS - SECTION	Groove (mm)	Colour	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01216	ROD EXTENSION COMPONENT	-	15 ÷ 18	Grey	X				20
02187	ROD EXTENSION COMPONENT	-	15 ÷ 20	Black	X				20
02187K	ROD EXTENSION COMPONENT	-	15 ÷ 20	Grey	X				20
03524N	CONNECTION ROD	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	15 ÷ 20	-	X				1
03525	CONNECTION ROD	C007	15 ÷ 18	-	X				1
03526N	CONNECTION ROD	C008	20 ÷ 23	-	X				1

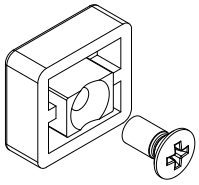


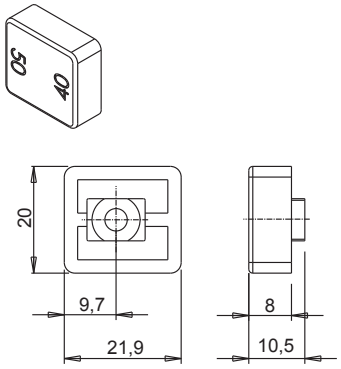
PAWLS

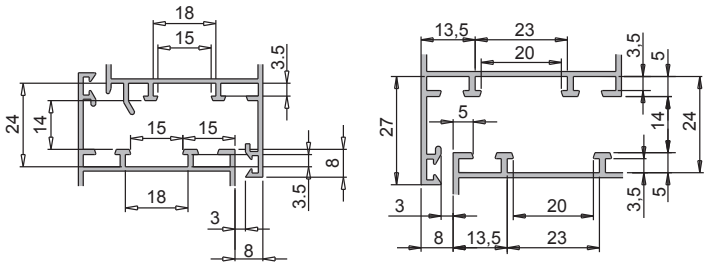
Functions
Pawl to be combined with a striker, required to create a locking point.

Online data sheet

01319K

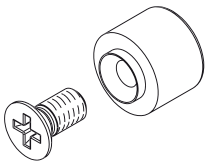


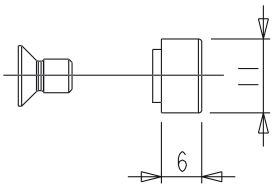


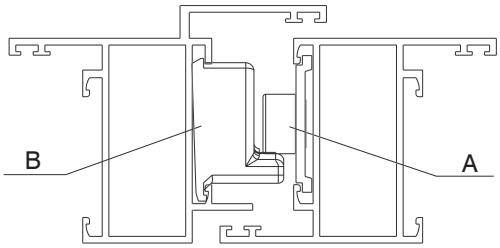


A = pin B= striker

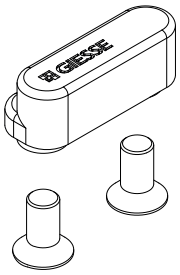
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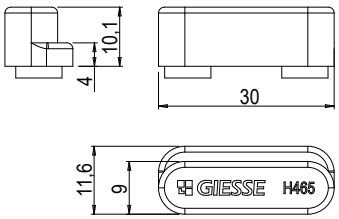


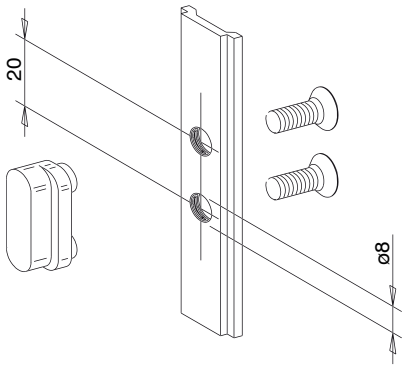




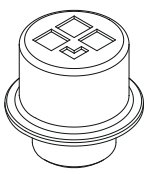
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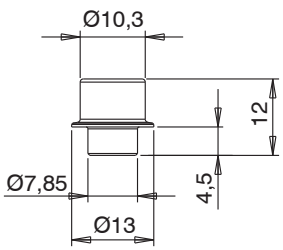






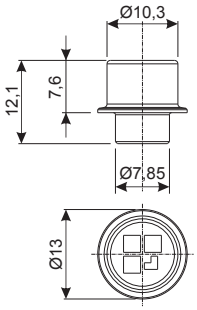
01352K



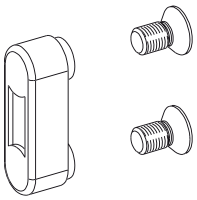


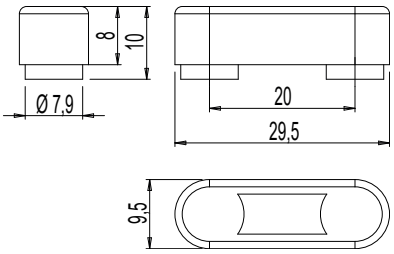
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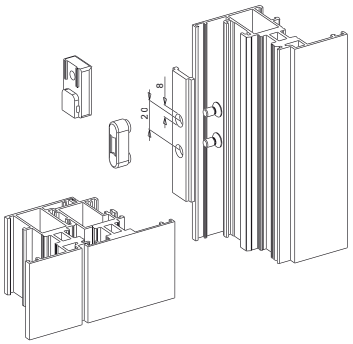




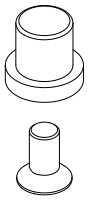
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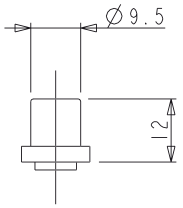


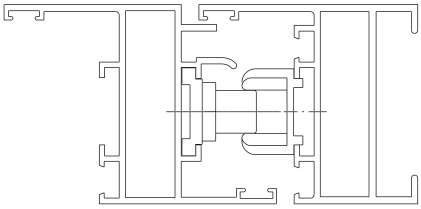




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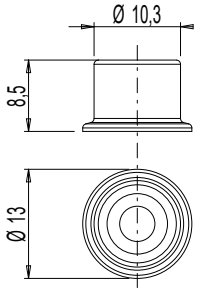


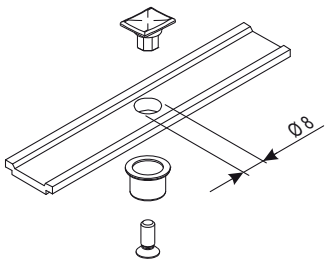




04027K

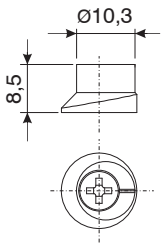


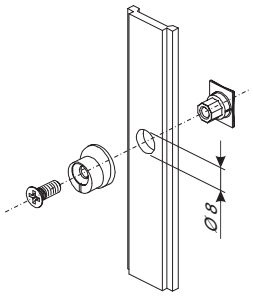




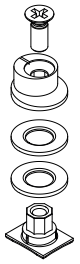
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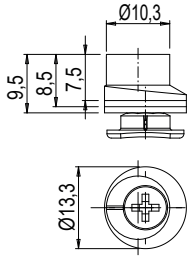


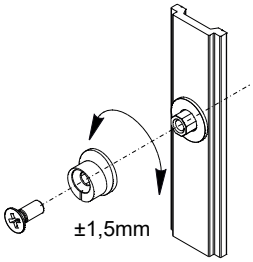




04042K



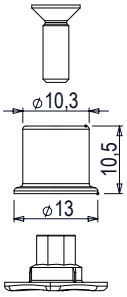




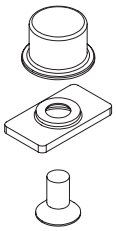
STRIKERS AND FASTENING MECHANISMS

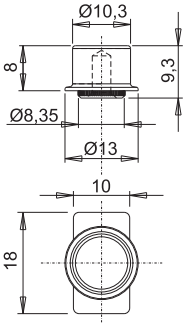
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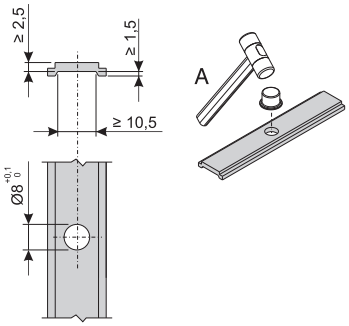




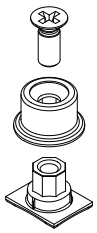
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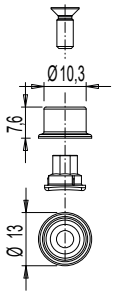






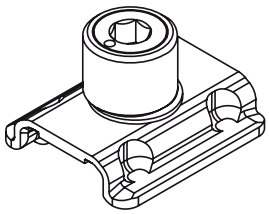
04067





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01319K	3RD FASTENING MECHANISM STRIKER	C007-C008	X				200
01332	PIN FOR ADDITIONAL FASTENING MECHANISMS		X				50
01333	ADDITIONAL FASTENING MECHANISM COMPONENT	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017	X				50
01352K	LOCKING PAWL (8 TUBES OF 50 PIECES)	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				400
01356K	ADDITIONAL PAWL (BULK)	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				400
02315K	ADDITIONAL FASTENING MECHANISM COMPONENT		X				500
02320	PIN FOR ADDITIONAL FASTENING MECHANISMS		X				500
04027K	FUTURA FIXED PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200
04030K	ADJUSTABLE LOCKING PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200
04042K	ADJUSTABLE LOCKING PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200
04049	FIXED PAWL		X				200
04050	FIXED PAWL	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200
04067	FUTURA FIXED PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	X				200

PAWLS 009



Functions

Closing element for insertion, in combination with a suitably shaped rod, in the 15/20 mm sash channel.

Online data sheet

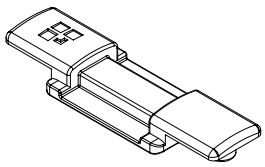
Technical Features

The pawl is applied directly on the manual quick-fitting rod. In order to install it you need to machine the connection rod.
For the adjustments and correct application on the profiles please refer to the table.

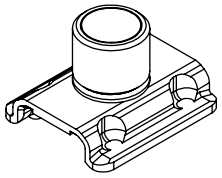
Materials

Stainless steel

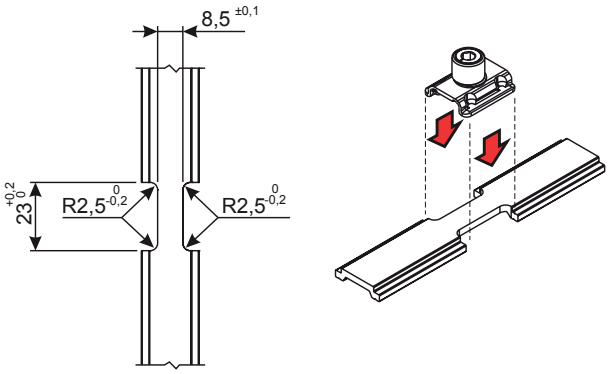
Fastener pawl base



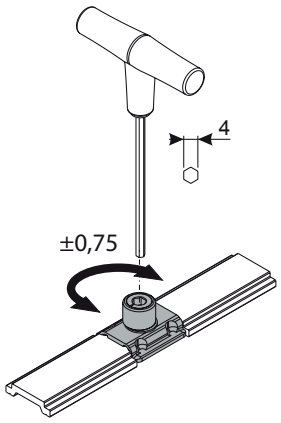
Fastener pawl

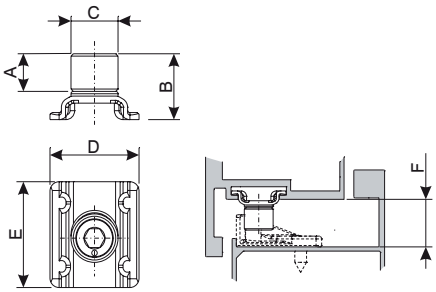


Rod machining



Adjustment





Item code	Description	PROFILE CROSS - SECTION	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01373	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	6,5	11,5	-	19,5	22,5	11,5	No	X				20
01394	LOCKING PAWL	-	8	14	10,3	19,5	22,5	16.5/17	+/- 0.75	X				100
01395	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	5,5	11,5	10,3	19,5	22,5	11,5	+/- 0.75	X				100
01399	CLOSING PAWL BASE	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	-	-	-	-	-	X				100
04052	LOCKING PAWL	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	5,5	11,5	10,3	19,5	22,5	11,5	No	X				100
04054	LOCKING PAWL	-	8	14	10,3	19,5	22,5	16.5/17	No	X				100



PAWLS FOR CURTAIN WALL

Functions

Adjustable pawl to be applied on the "Giesse connection element" which, in combination with a fixed striker, creates a locking point for a window.

Online data sheet

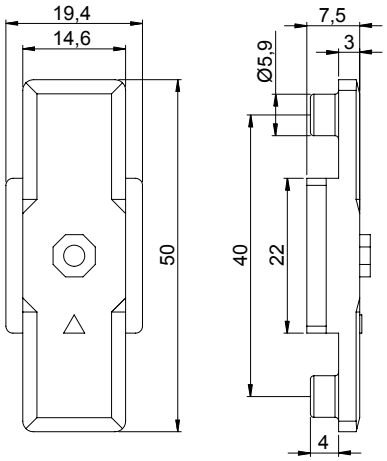
Technical Features

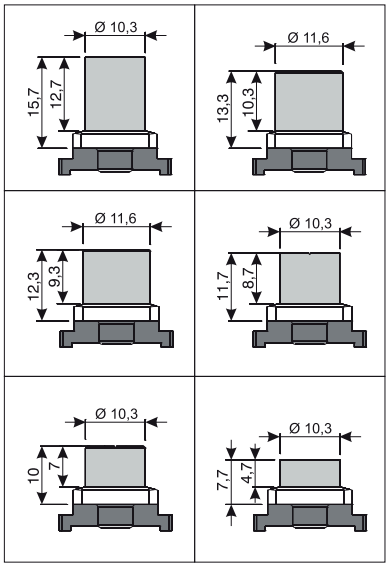
The pawl is applied "on the Giesse connection element" by means of a screw supplied with the pawl.
The pawl with the most suitable height will be appraised according to the sash - frame distance of the series.
The adjustable pawl is used in combination with a fixed striker placed on the frame.
For the adjustments please refer to the table.

Materials

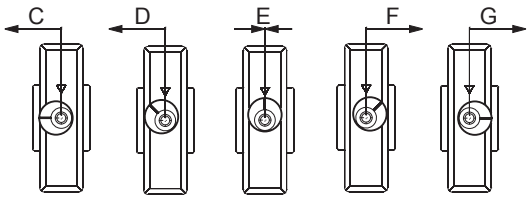
Pawl in zamak with GS Silver Plus finish (over 500 hours of corrosion resistance)
Stainless steel screw

Distances

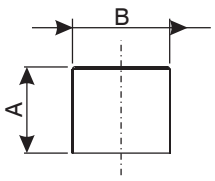




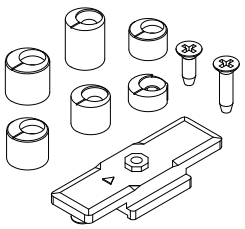
Adjustments



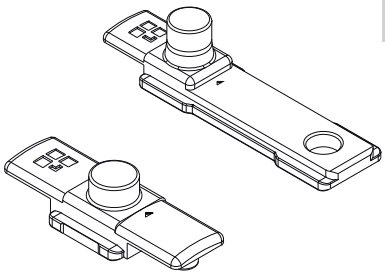
Dimensions



04682K



Item code	Description	PROFILE CROSS - SECTION	Dimensions A (mm)	Dimensions B (mm)	Adjustment C (mm)	Adjustment D (mm)	Adjustment E (mm)	Adjustment F (mm)	Adjustment G (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02215K	CONNECTION JOINT	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010								X				100
04675K	LOCKING PAWL	-	12,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04677K	LOCKING PAWL	-	10,3	11,6	+ 1,8	+ 1,27	0	- 1,27	- 1,8	X				100
04679K	LOCKING PAWL	-	8,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04681K	LOCKING PAWL	-	4,7	10,3	+ 1,5	+ 1,06	0	- 1,06	- 1,5	X				100
04682K	CONNECTION JOINT WITH 6 PAWLS	-								X				50



CONNECTION JOINTS WITH PAWLS

Functions

Fixed connection joint, to be combined with the adjustable striker, required to create a lock point.

Online data sheet

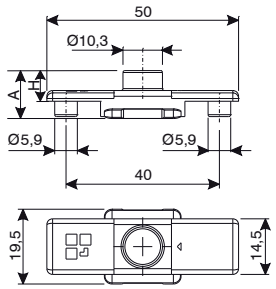
Technical Features

The connection joint can be used at the end of a connection rod or to join two together. In both cases, matched with an adjustable striker, it makes a locking point.
It is highly resistant with high tear strength.

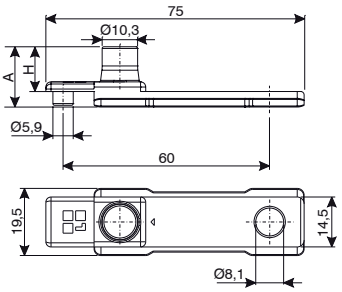
Materials

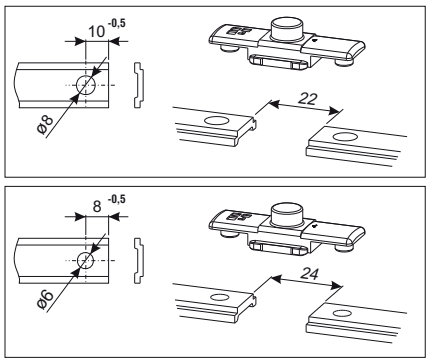
Connection element in zamak with Giesse Silver-Plus finish (over 500 h of corrosion resistance)

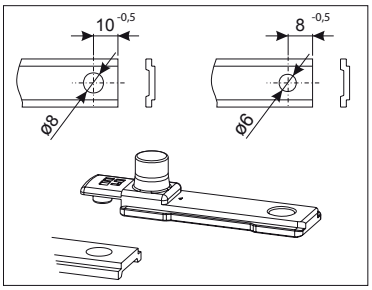
MX-MX version

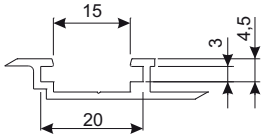


MX-FM version

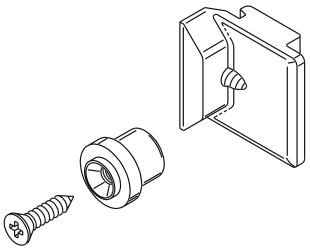








Item code	Description	PROFILE CROSS - SECTION	A	H	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04047K	FIXED CONNECTION JOINT MX-MX	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	12.5 mm	8 mm	X				200
04662K	FIXED CONNECTION JOINT MX-MX	-	17.5 mm	13 mm	X				100
04663K	FIXED CONNECTION JOINT MX-FM	-	17.5 mm	13 mm	X				100
04664K	FIXED CONNECTION JOINT MX-FM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	12.5 mm	8 mm	X				100



ADDITIONAL FASTENING MECHANISM COMPONENTS

Functions

Closing components specially designed to make an additional fastening mechanism, on side-hung windows with 1 or more sashes.

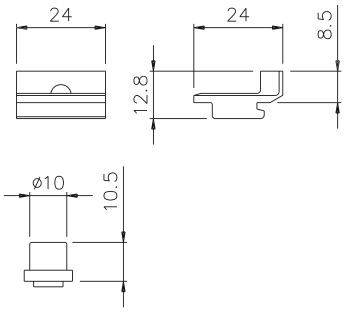
Online data sheet

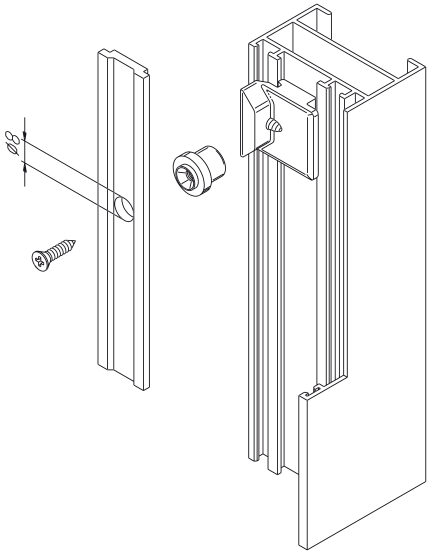
Technical Features

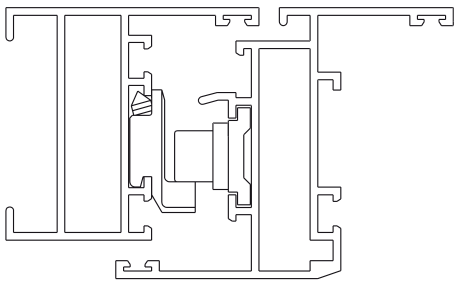
It makes additional fasteners, both in the sash-frame interface of windows with 1 sash and in the profile cross-section of windows with 2 sashes.

Materials

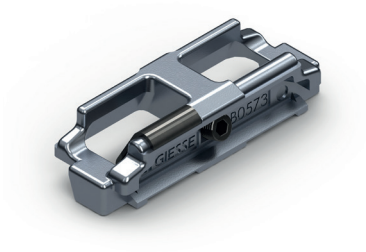
Striker body made of zamak with GS SILVER PLUS finish.
Pin and screw of zinc-nickel plated steel
Stainless steel grub screw







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0133001	STRIKER AND PIN FOR THIRD FASTENING MECHANISM		X				50



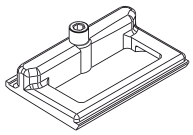
STRIKERS

Functions

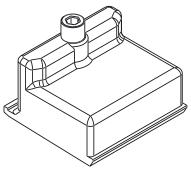
Components made to be fitted on frames of casements with one or more sashes with the function of accommodating the tips of bolts and terminals and the fastening pawls made by GIESSE.

Online data sheet

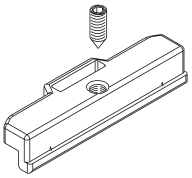
Type 1



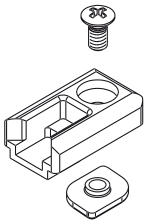
Type 2



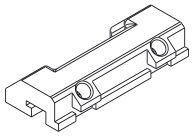
Type 3



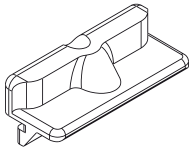
Type 4



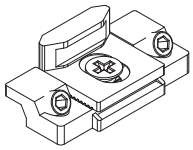
Type 5



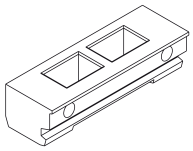
Type 6



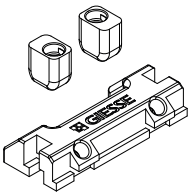
Type 7



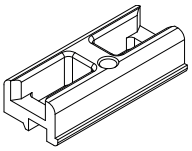
Type 8



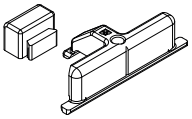
Type 9



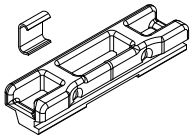
Type 10



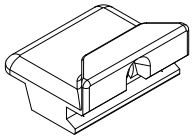
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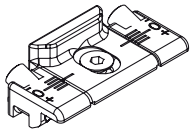
Type 12



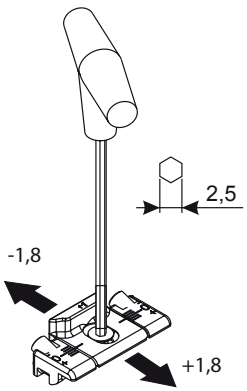
Type 13



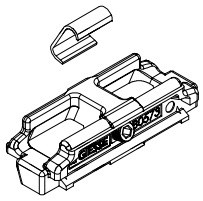
Type 14



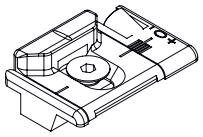
Compression adjustment



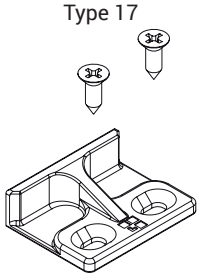
Type 15



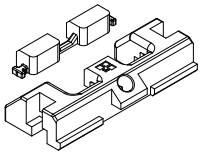
Type 16



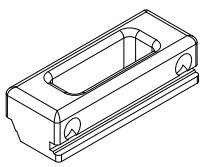
Type 17



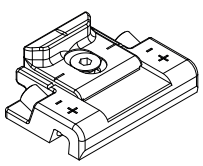
Type 18



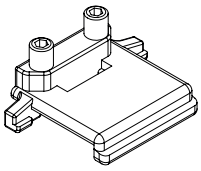
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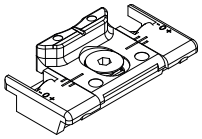
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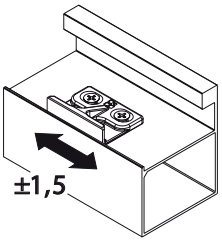
Type 21



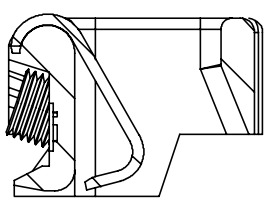
Type 22



Side adjustment



Adjustment art. 01348K



STRIKERS AND FASTENING MECHANISMS

Item code	Description	Type	Type	PROFILE CROSS - SECTION	Adjustable (mm)	Material	Colour	3° fastening mechanism	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01215	STRIKER	18	Double	C007	No	Zamak	Grey		X				100
0127901	STRIKER	21	Single	C010	No	Zamak	Grey	X	X				100
0130501	STRIKER	1	Double	see Where Used	No	Zamak	Grey		X				100
0130601	STRIKER	2	Single	see Where Used	No	Zamak	Grey	X	X				100
0130701	STRIKER	3	Double	C009	No	Zamak	Grey	X	X				100
01314K	STRIKER	4	Single	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Zamak	Grey	X	X				100
0131501	STRIKER	4	Single	C010	No	Zamak	Grey	X	X				100
0131601	STRIKER	4	Single	see Where Used	No	Zamak	Grey	X	X				100
01317	STRIKER	5	Double	C007-C008	No	Polyamide	Black		X				100
01317K	STRIKER	5	Double	C007-C008	No	Polyamide	Grey		X				100
01318K	STRIKER	6	Single	C007-C008	No	Zamak	Grey	X	X				200
01322	STRIKER	4	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Black	X	X				100
01322K	STRIKER	4	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Grey	X	X				100
01328	STRIKER	8	Double	see Where Used	No	Polyamide	Black		X				100
01329	STRIKER	9	Double	C009	No	Polyamide	Black		X				50
01331	STRIKER	10	Double	C010	No	Polyamide	Black		X				100
0133801	STRIKER	11	Double	see Where Used	No	Zamak	Grey	X	X				50
01339	STRIKER	12	Double	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Polyamide	Black		X				100
01340K	STRIKER	10	Double	C005	No	Polyamide	Grey		X				100
01340N	STRIKER	10	Double	C005	No	Polyamide	Black		X				100
01342K	STRIKER	13	Single	C003-C005-C006	No	Zamak	Grey		X				200
01343K	STRIKER	13	Single	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Zamak	Grey		X				200
01344K	STRIKER	13	Single	C007	No	Zamak	Grey		X				200
01345K	STRIKER	13	Single	C008	No	Zamak	Grey		X				200
01347K	STRIKER	14	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 1.8 (compression)	Zamak	Grey		X				200
01348K	STRIKER	15	Single	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Zamak	Grey		X				100
01349K	STRIKER	12	Double	C001-C002-C004-C006-C011-C012-C013-C014-C015-C016-C017	+ 0.8 (compression)	Zamak	Grey		X				100
01353K	STRIKER	16	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 2.4 (compression)	Zamak	Grey		X				200
01362K	STRIKER	14	Single	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	+ 1.8 (compression)	Zamak	Grey		X				200
01393	STRIKER	17	Single	see Where Used	± 1.5 (side)	Zamak	Black		X				100
01396	STRIKER	14	Single	see Where Used	+ 1.8 (compression)	Zamak/Brass	Grey		X				200
01398	STRIKER	20	Single	see Where Used	+ 1.8 (compression)	Zamak	Grey		X				200
01400	STRIKER	22	Single	see Where Used	+ 1.8 (compression)	Zamak	Grey		X				200
02337	STRIKER	19	Double	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	No	Polyamide	Black		X				100

DOOR STRIKERS

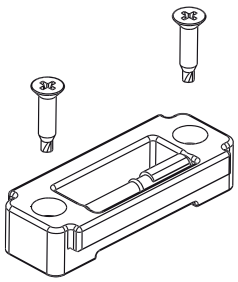


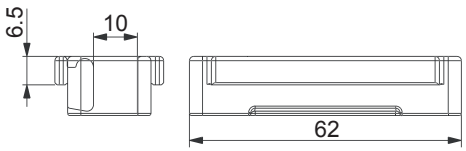
Functions

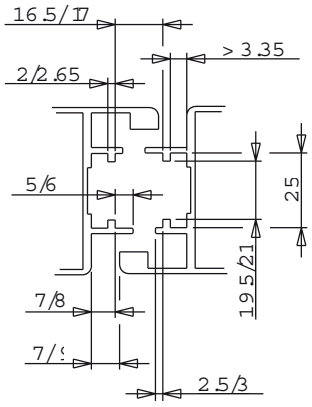
Component produced for application to the top and bottom part of the frame of doors with one or more sashes, having the function of accommodating bolt tips and bolts.

Online data sheet

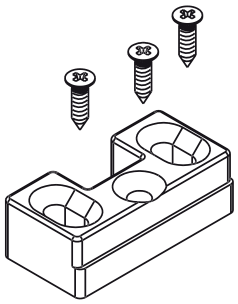
01308

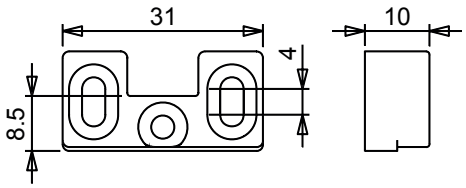






0132501





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01308	STRIKER FOR TOTEM FOR DOOR CHANNEL		X				50
0132501	PESOS-SUPERGIAP RODS STRIKER		X				100



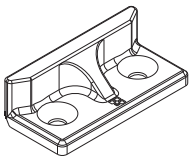
STRIKERS FOR CURTAIN WALL FLAT FRAME

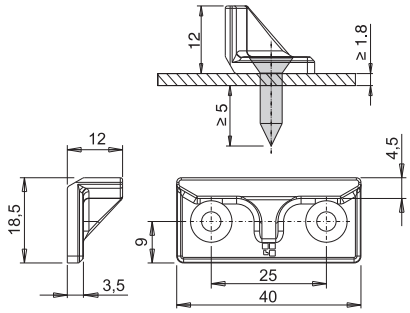
Functions

Fixed striker, to be combined with an adjustable pawl, necessary for making the locking points on a top-hung window or outward opening (side hung) window.

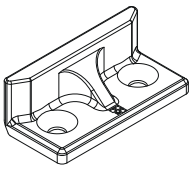
Online data sheet

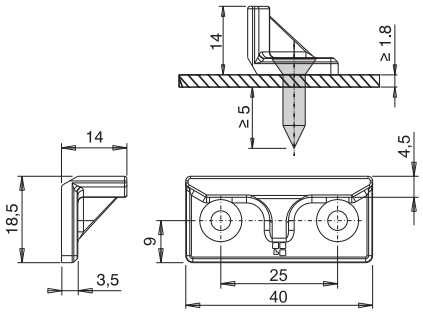
01213



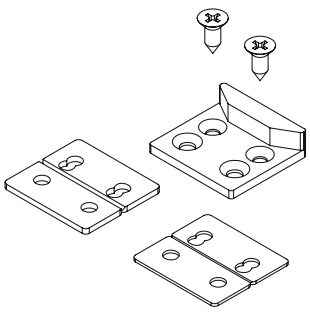


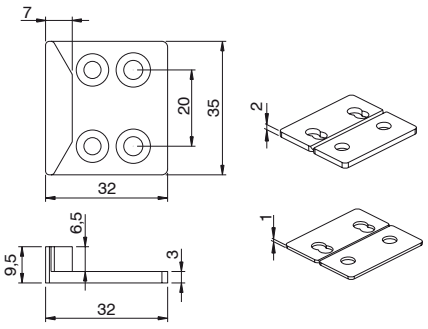
01214

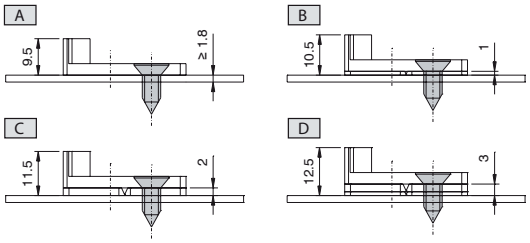




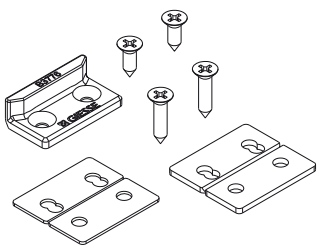
01266K

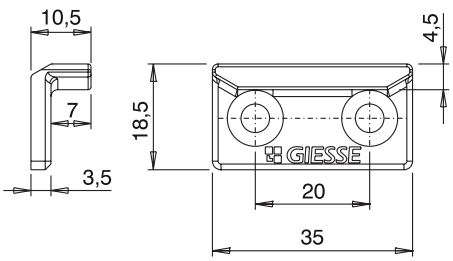




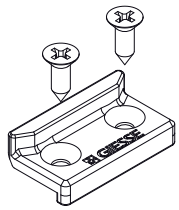


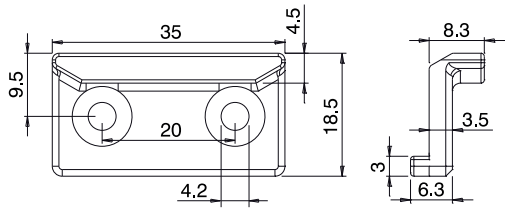
01267K

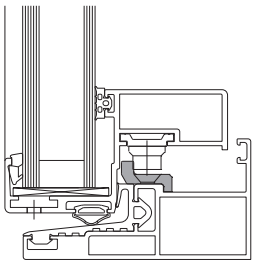




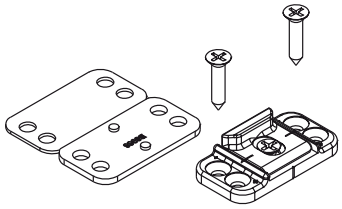
01268K

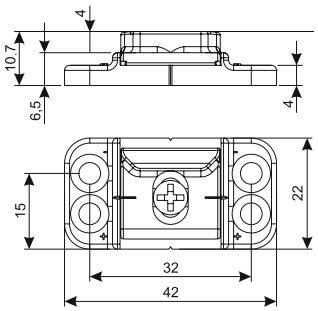


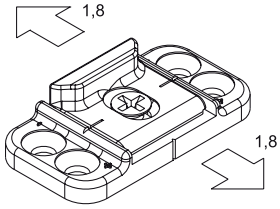




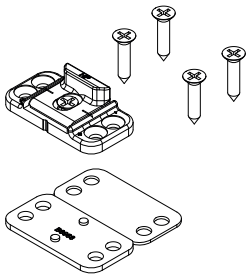
01269K

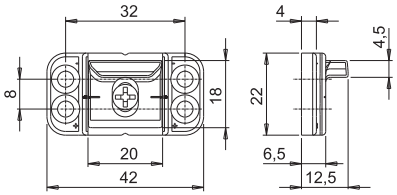


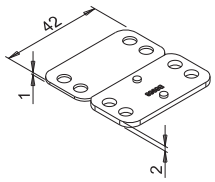


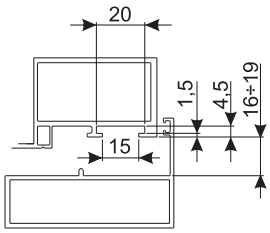


01280









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01213	STRIKER FOR HP FLAT FRAMES	H= 12 mm	X				100
01214	STRIKER FOR HP FLAT FRAMES	H= 14 mm	X				100
01266K	CURTAIN WALL STRIKER	silver plus	X				100
01267K	CURTAIN WALL STRIKER WITH SHIM	silver plus	X				100
01268K	STRIKER FOR CURTAIN WALL		X				100
01269K	CURTAIN WALL ADJUSTABLE STRIKER	silver plus	X				100
01280	ADJUSTABLE STRIKER FOR FLAT FRAME		X				100



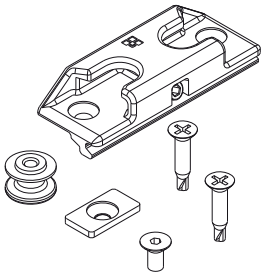
BURGLAR-PROOF FASTENING MECHANISM

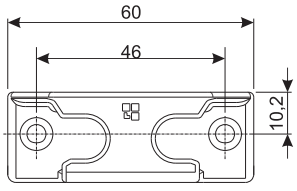
Functions

Specially designed device to increase the resistance of the casement to break-in attempts, making intrusion through the window more difficult. Can be used on both sash and tilt-and-turn windows.

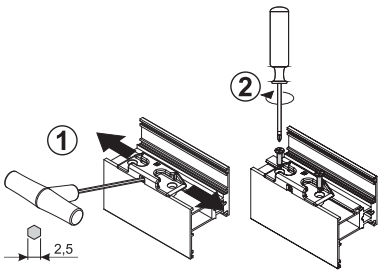
Online data sheet

04031K

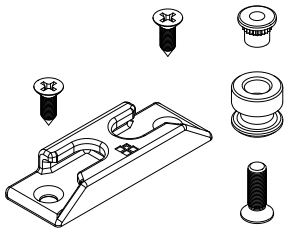


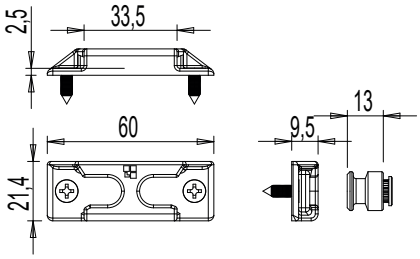




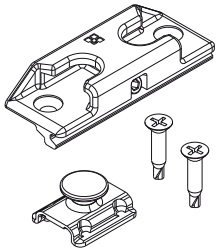


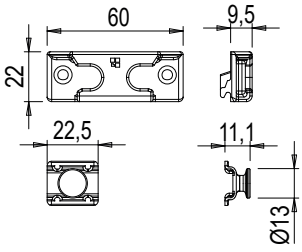
0404101

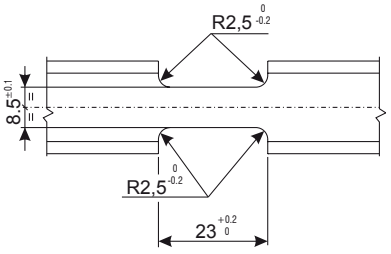




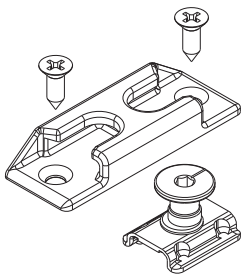
04046K



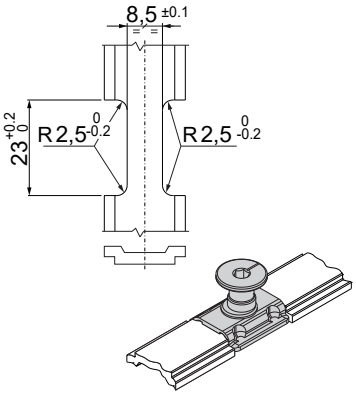




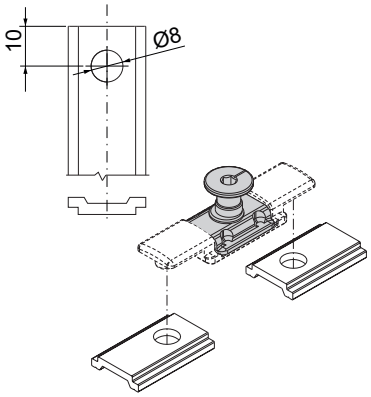
04134



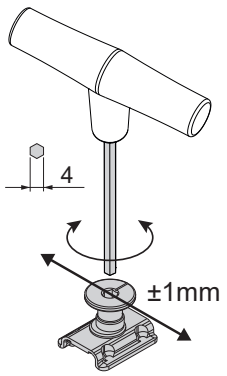
Coupling on machined rod



Snap-mounting component

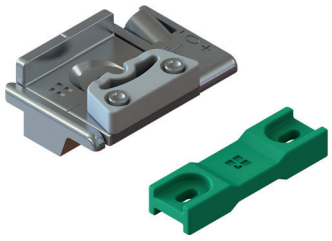


Compression adjustment



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04031K	FUTURA BURGLAR-PROOF FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				20
0404101	BURGLAR-PROOF FASTENING MECHANISM	17 mm groove	X				20
04046K	BURGLAR-PROOF DEVICE	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				20
04134	ADJUSTABLE BURGLAR-PROOF FASTENING MECHANISM	17 mm groove	X				20

MICRO-VENTILATION

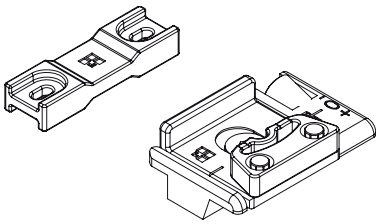


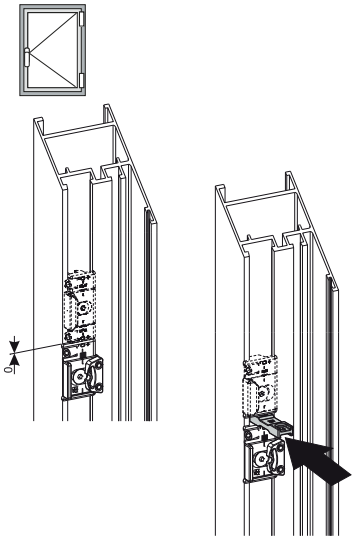
Functions

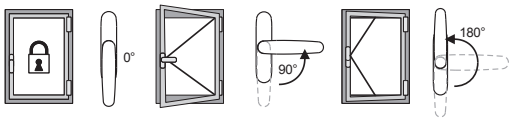
Adjustable device allowing precision opening of the casement, called “micro-ventilation.”

Online data sheet

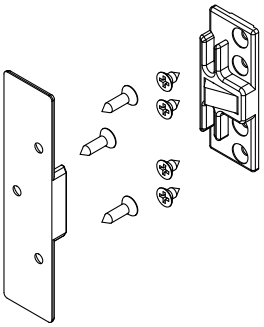
02229K

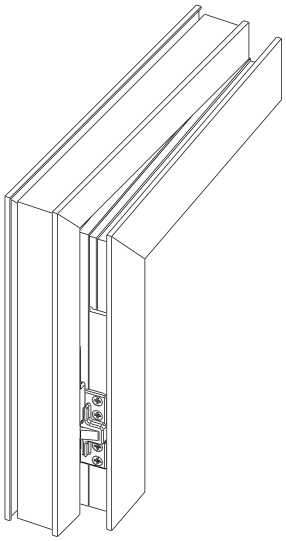


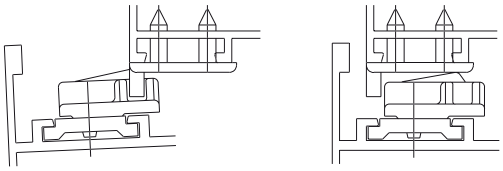




0223001







Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02229K	FUTURA WINDOW MICROVENTILATION	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				50
0223001	AERANTA	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	X				50



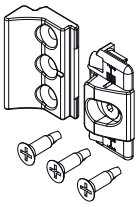
BURGLAR BOLTS

Functions

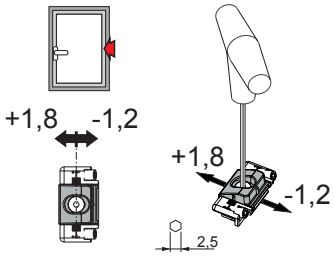
The fastening element can be used to create additional locking points on any aluminium sash, making the entire window structure sturdier.

Online data sheet

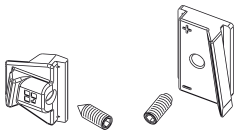
04358

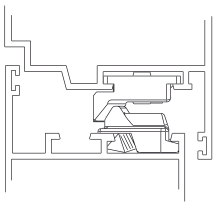


Compression adjustment

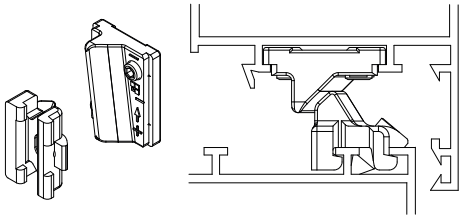


01350K

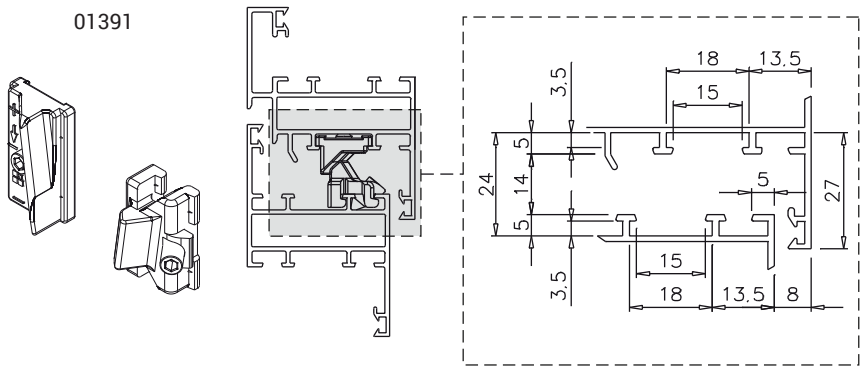




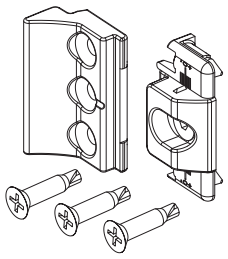
0135701

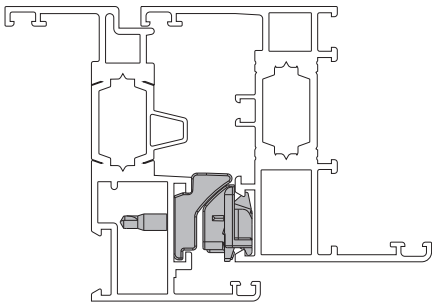


01391

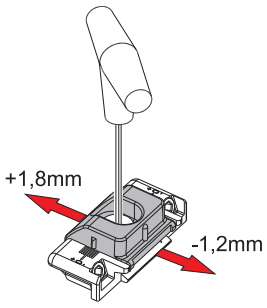


05294

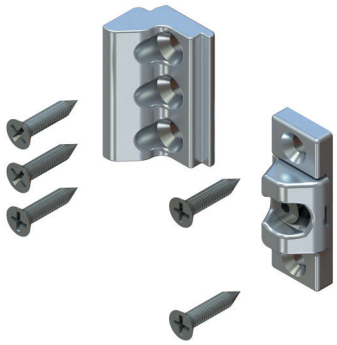




Compression adjustment



Item code	Description	PROFILE CROSS - SECTION	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01350K	FUTURA BURGLAR BOLT	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	FLASH, FUTURA	X				50
0135701	ADJUSTABLE FASTENING ELEMENT	C008	FLASH, FUTURA, FULCRA, CELERA	X				50
01391	ADJUSTABLE FASTENING ELEMENT	C007	FLASH, FUTURA, FULCRA, CELERA	X				50
04358	CHIC FASTENING ELEMENT	C001-C002-C003-C004-C005-C006	CHIC	X				50
05294	ADJUSTABLE FASTENING ELEMENT	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	FLASH, FUTURA, FULCRA, CELERA, EUROGROOVE ARMS	X				50



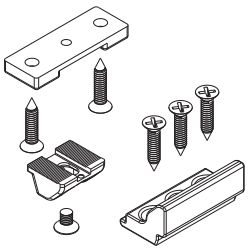
BURGLAR BOLTS FOR CURTAIN WALL FLAT FRAME

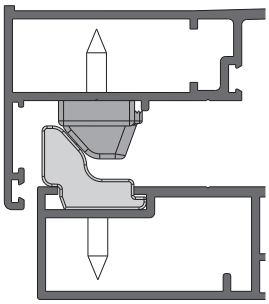
Functions

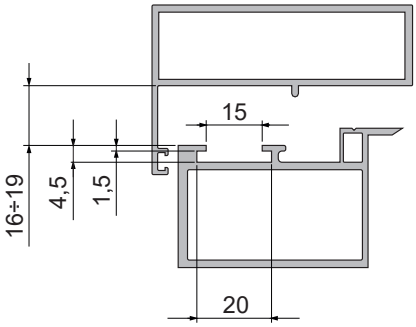
The fastening element can be used to create additional locking points on any aluminium sash, making the entire window structure sturdier.

Online data sheet

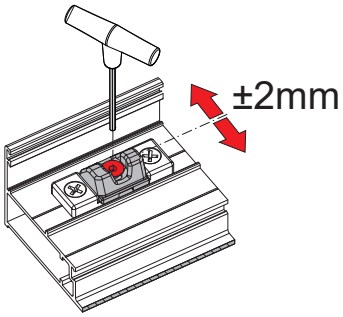
01410



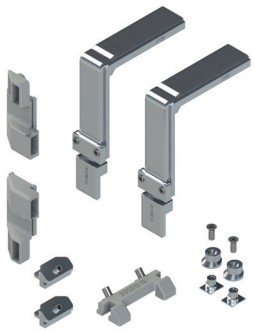




Compression adjustment



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01410	BURGLAR BOLT FOR CURTAIN WALL FOR 17 mm STACK	17 mm STACK	X				50



KIT FOR TWO-WAY SASH CLOSING

Functions

Two-way sash fastening mechanism. For use on casements that require side-hung sash opening.

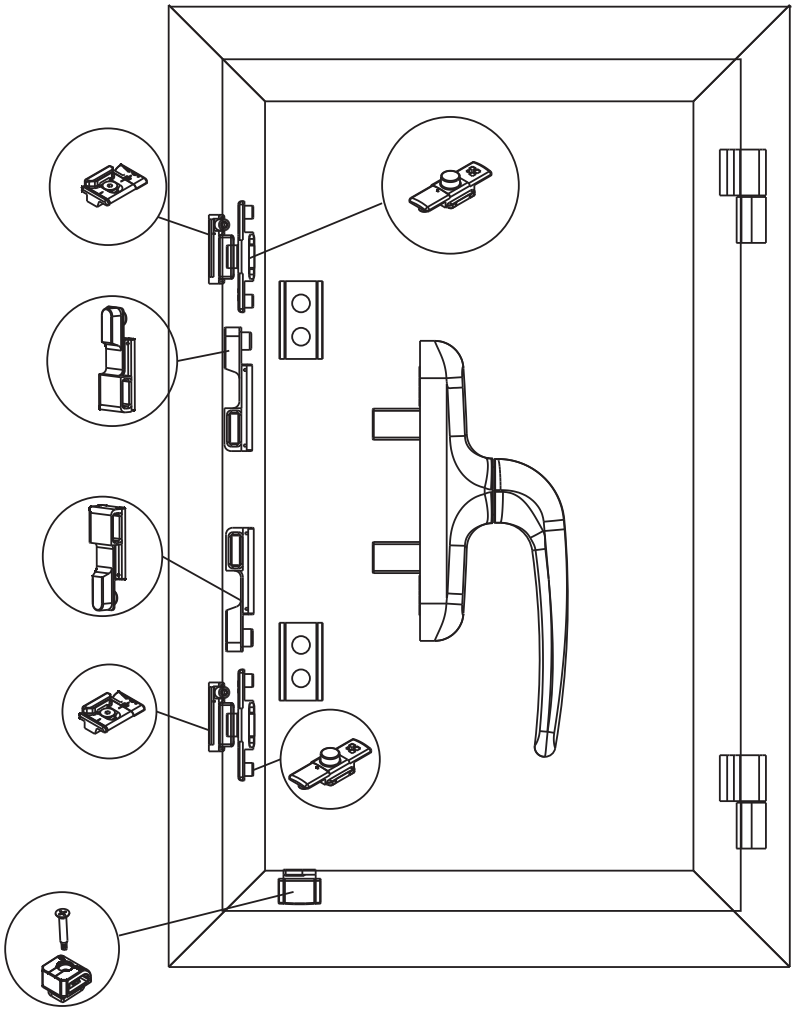
Online data sheet

Technical Features

The sash fastening mechanism is available in different versions: fastening by pawls, fastening by Giap terminals, fastening by adjustable terminals and perimeter fastening by corner drives.
The fastening mechanism is to be in addition to the Euro or Prima Cremone and the Flash Base hinges.

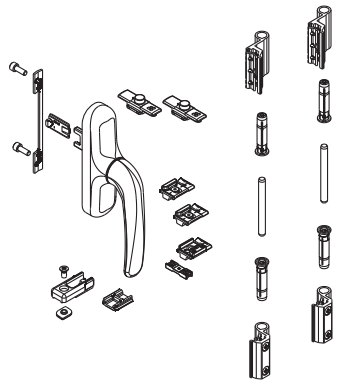
Materials

Connecting blocks and raiser made of polyamide
Zamak fastening mechanism components
Screws and grub screws in stainless steel



FASTENING SYSTEM

Item code	Description	PROFILE CROSS - SECTION	Bolt channel	Fastening mechanism with pawls	Fastening mechanism with Giap terminals	Fastening mechanism with Adjustable terminals	Perimetral Closing	Striker material	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01183K	SASH KIT WITH PROVE-DAL TWO-WAY CLOSING	see Where Used Giesse	-	-	X	-	-	GS Silver Plus zamak			X		20
02129	SASH FASTENING SYSTEM	C007	15 ÷ 18	-	X	-	-	Black poly-amide	X				40
02256K	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS Silver Plus zamak	X				20
02256N	SASH FASTENING SYSTEM	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS500 zamak	X				20
02257	SASH FASTENING SYSTEM	C007	-	-	X	-	-	Black poly-amide	X				20
02258K	FASTENER KIT FOR TWO GACS SASHES	C001-C002-C003-C004-C005-C012-C013-C014-C015-C016-C017	15 ÷ 20	-	X	-	-	Grey poly-amide	X				20
02270	SASH FASTENING SYSTEM	C1-C2-C4-C11-C12-C13-C14-C15-C16-C17	-	-	X	-	-	Black poly-amide	X				170
02270K	SASH FASTENING SYSTEM	C1-C2-C4-C11-C12-C13-C14-C15-C16-C17	-	-	X	-	-	Grey poly-amide	X				170
02271	SASH FASTENING SYSTEM	C008	-	-	X	-	-	Black poly-amide	X				110
02571K	KIT FOR SASH-PAWL CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	X	-	-	-	GS Silver Plus zamak	X				10
02574K	KIT FOR SASH-GIAP TERMINAL CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	X	-	-	GS Silver Plus zamak	X				10
02577K	SASH FASTENER KIT WITH ADJ. TERMINAL	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	-	X	-	GS Silver Plus zamak	X				10
02578K	KIT FOR SASH-PERIME-TER CLOSING	C001-C002-C003-C005-C012-C013-C014-C015-C016-C017	-	-	-	-	X	GS Silver Plus zamak	X				10
02579K	KIT FOR SASH-PERIME-TER CLOSING	C007	-	-	-	-	X	GS Silver Plus zamak	X				10
02589K	ADDITIONAL FASTENER KIT	C001-C002-C003-C004-C012-C013-C014-C015-C016-C017	-	-	-	-	-	GS Silver Plus zamak	X				10



KIT FOR ONE-WAY SASH CLOSING

Functions

Kit for side-hung sash fastening mechanism complete with PRIMA cremone and FLASH BASE hinges.

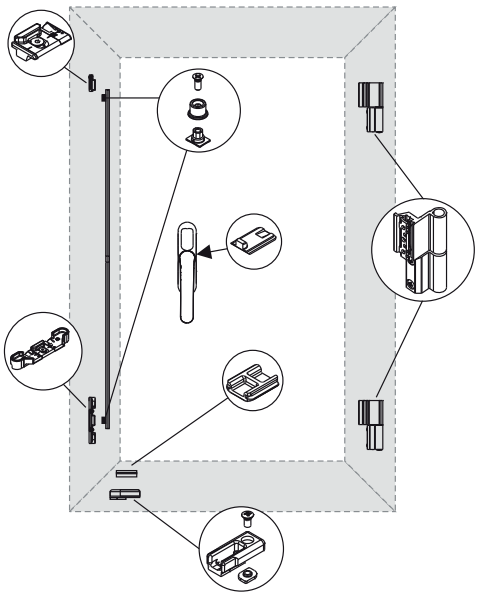
Online data sheet

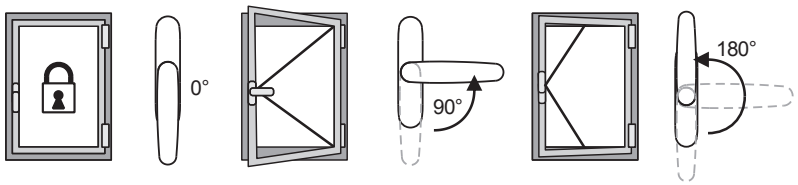
Technical Features

Kit comprising Cremone, hinges and fastening strikers allowing side-hung opening featuring a one-way fastening system.
A version is also available with a micro-ventilation device that enables gradual air recirculation.

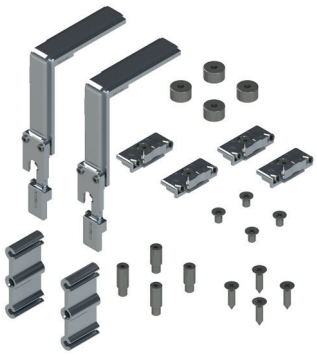
Materials

Closing striker, microventilation striker, drive rod slider and connection element in zamak
Extruded aluminium hinges
Double striker and lifter in polyamide
Cremone fixing plate, cams and screws in stainless steel
Cremone handle in die-cast aluminium
Case, gear, slider and incorrect movement safety device in die-cast zamak





Item code	Description	PROFILE CROSS - SECTION	Pull handle 0°	Pull handle 90°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01181K	SASH KIT WITH ONE-WAY CLOSING	C007	Closed	open	-	X		X		20
01184K	SASH KIT WITH ONE-WAY CLOSING	C001	Closed	open	Micro-ventilation	X		X		20
01185K	SASH KIT WITH ONE-WAY CLOSING	C003	Closed	open	Micro-ventilation	X		X		20
01187	SASH KIT WITH ONE-WAY CLOSING	C001	-	-	-	X		X		20
01188	SASH KIT WITH ONE-WAY CLOSING	C003	-	-	-	X		X		20

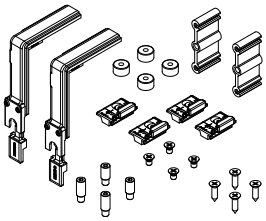


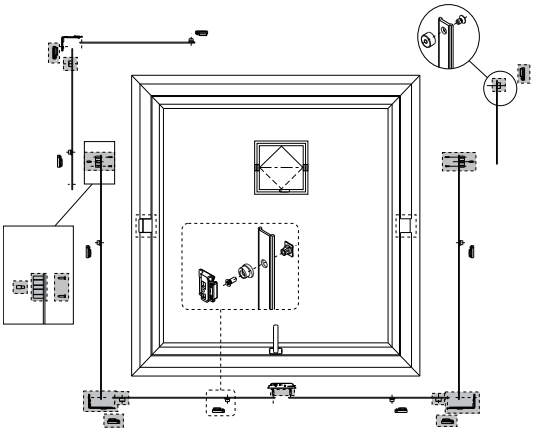
MULTIPLE LOCK PIVOT KIT

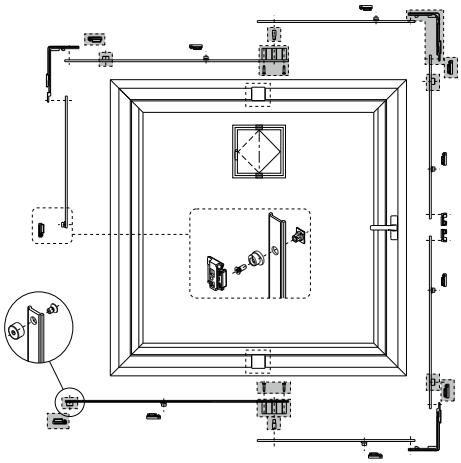
Functions
Kit for making a multi-locking system for pivoting windows.

Online data sheet

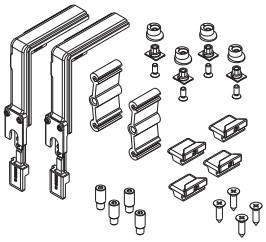
02197K

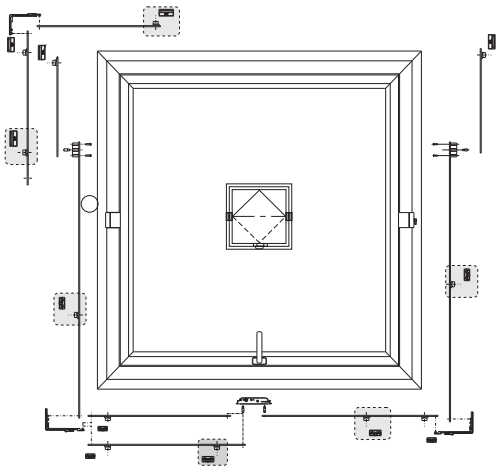


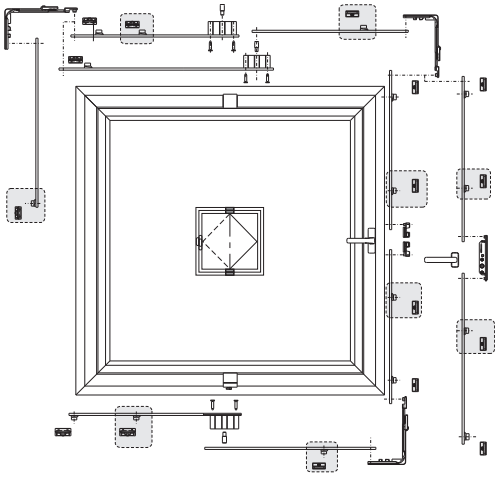




02223K



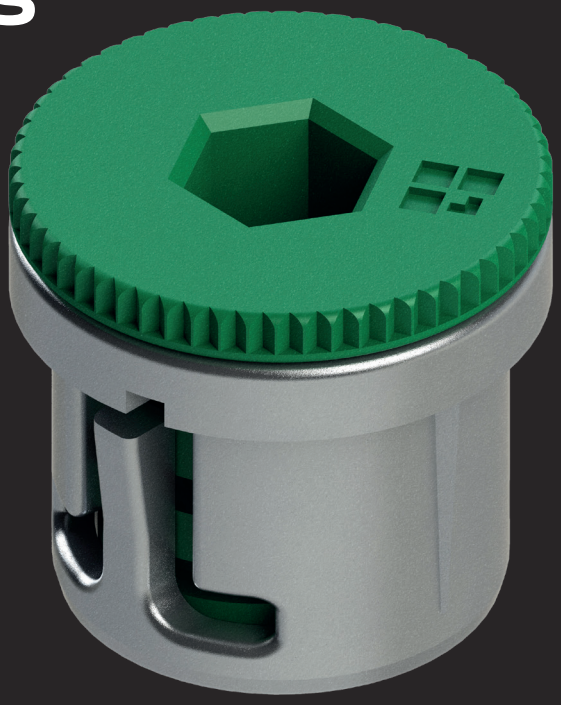


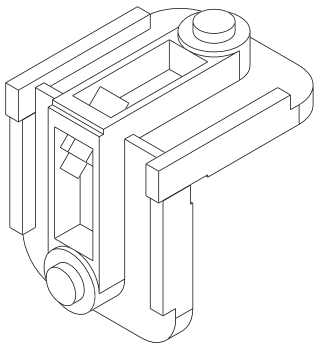


Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Eiox	Painted	Trend/Gold Brass	Pieces per pack
02197K	PERIMETER FASTENER KIT	P001-P009	X				4
02223K	PERIMETER FASTENER KIT	P005	X				4

GIESSE
TYMAN group

CAP PLUGS
COMPENSATORS
CORNER JOINTS





SNAP-MOUNTING CORNER JOINTS

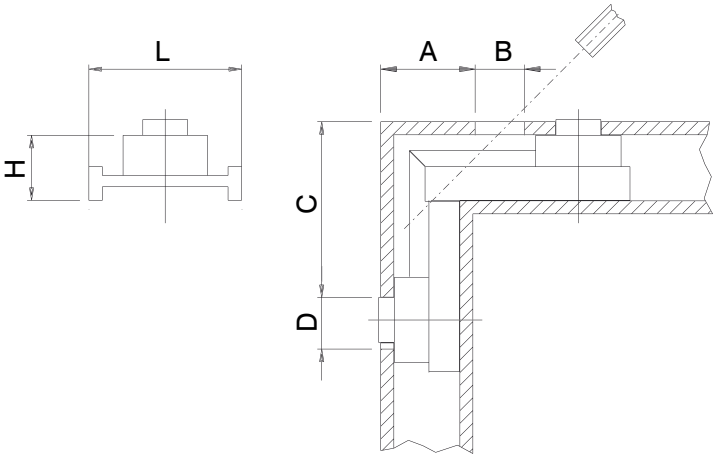
Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

Online data sheet

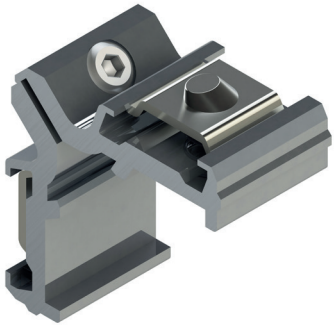
Technical Features
Corner joint with buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw and locknut makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

Materials
Corner joint in die-cast aluminium with snap-mounting anchoring buttons.

Snap-mounting corner joint



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Button	Centred button	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00305	SNAP-MOUNTING CORNER JOINT	36	14	21	11x6	41	10,5	External	Yes		X				250
00313	SNAP-MOUNTING CORNER JOINT	28,5	14,5	21	11x6	41,5	11,5	External	Yes		X				250
00367	SNAP-MOUNTING CORNER JOINT	28,5	34,8	26	13x8	47	10,5	External	Yes		X				200
00380	SNAP-MOUNTING CORNER JOINT	24	10,6	14,5	11x6	36,5	10,5	External	Yes		X				250
06575	SNAP-MOUNTING CORNER JOINT	16,8	14,3	21	11x6	41	10	External	Yes		X				250



KAMEL SNAP-MOUNTING CORNER JOINTS

Functions

Snap-mounting joint for assembling aluminium profiles on a corner.

Online data sheet

Technical Features

Corner joint with external buttons dia. 10 mm
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.
Oversized tubular sections need to be coupled with a shimming bracket (see table).

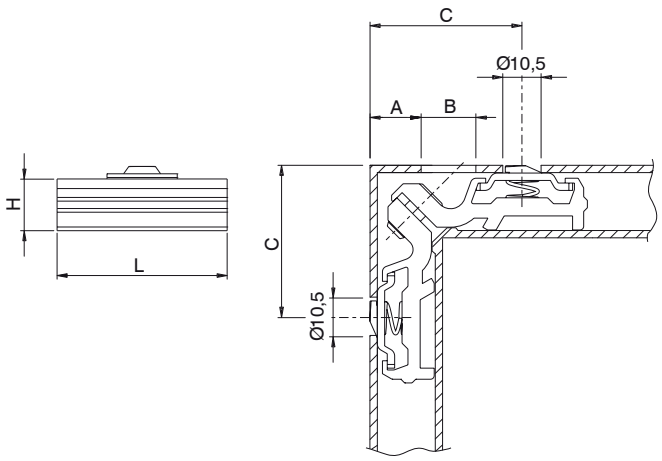
Materials

Extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance)
Springs in stainless steel

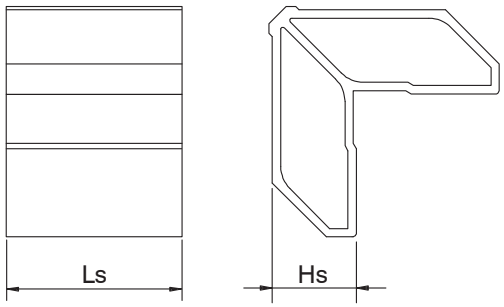
Parts

CSH screw M6x14.8

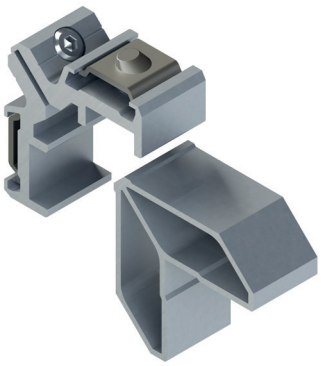
Kamel snap-mounting corner joint



Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Centred button	Shimming bracket	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00332	KAMEL snap-mounting CORNER JOINT	20,2	14,1÷15,5	15	14x5	43	Yes	03602	20,2	16	X				250
00336	KAMEL snap-mounting CORNER JOINT	46	14,1÷15,5	14	14x5	42	Yes	00337	-	-	X				100
00337	SHIMMING BRACKET	-	-	-	-	-	-	-	46	23,7	X				100
00338	KAMEL snap-mounting CORNER JOINT	28,5	14,1÷15,5	14	14x5	43	No	00339	-	-	X				50
00339	SHIMMING BRACKET	-	-	-	-	-	-	-	28,5	23,7	X				100
00340	KAMEL CORNER JOINT + SHIMMING BRACKET	40,9	37,8÷39,2	15	14x5	43	Yes	-	41,1	21,7	X				50
00344	KAMEL snap-mounting CORNER JOINT	28,5	14,1÷15,5	14	14x5	37,25	Yes	00339	28,5	23,7	X				100
00348	KAMEL snap-mounting CORNER JOINT	34,5	14,1÷15,5	14	14x6	42	No	00349	-	-	X				50
00349	SHIMMING BRACKET	-	-	-	-	-	-	-	34,5	23,7	X				100
00357	KAMEL snap-mounting CORNER JOINT	33,9	14,1÷15,5	14	14x5	43	Yes	-	33,9	21,7	X				100



KAMELDUE SNAP-MOUNTING CORNER JOINTS

Functions

Snap-mounting joint for assembling aluminium profiles on a corner.

Online data sheet

Technical Features

Corner joint with external buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.
For oversized profiles a shimming bracket is available.

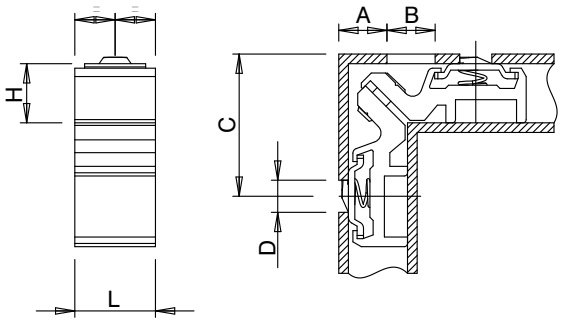
Materials

Body in extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance).
Springs in stainless steel

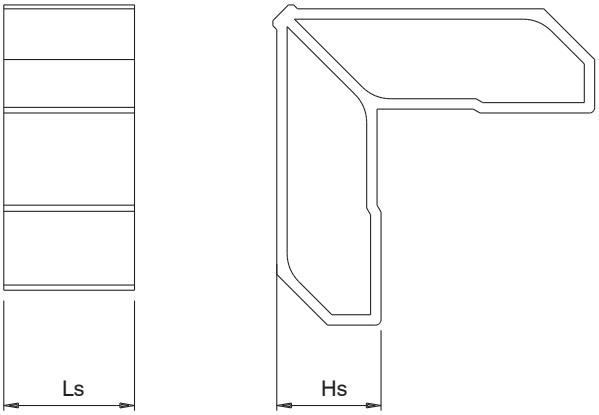
Parts

CSH screw M6x14.8

Kameldue snap-mounting corner joint



Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Centred button	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00330	KAMELDUE snap-mounting CORNER JOINT	25,1	17,4÷18,5	15	14x5	43	10,5	Yes	-	-	X				100
00335	SHIMMING BRACKET	-	-	-	-	-	-	-	25,1	20	X				100

KAPPA SNAP-MOUNTING CORNER JOINTS



Functions
Joining element, for corner connection of aluminium profiles.

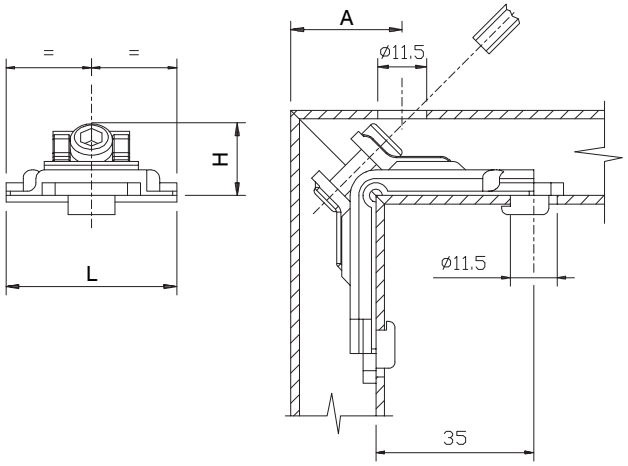
Online data sheet

Technical Features
Corner joint with internal buttons dia. 10mm.
Made entirely of steel.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

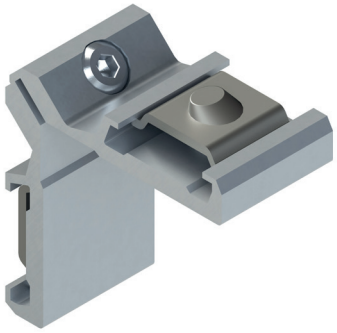
Materials
Body, corner guide, expansion spring and screw in zinc plated steel.

Parts
HSH screw M6x16

Kappa snap-mounting corner joint



Item code	Description	L (mm)	H (mm)	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00321010	KAPPA steel CORNER JOINT	35,5	MIN.14.5	25	X				200
00322010	KAPPA steel CORNER JOINT	41	MIN.14.5	see Where Used Giesse	X				200
00323010	KAPPA steel CORNER JOINT	45	MIN.14.5	see Where Used Giesse	X				200



REX SNAP-MOUNTING CORNER JOINTS

Functions
Snap-mounting joint for assembling aluminium profiles on a corner.

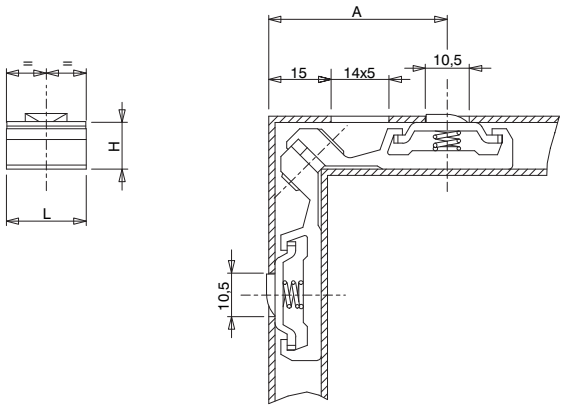
Online data sheet

Technical Features
Corner joint with external buttons dia. 10 mm.
The two spring-loaded buttons enable quick and secure assembly.
The closing screw makes for quick assembly of the parts.
Specific for joining profiles with 45° end cut.

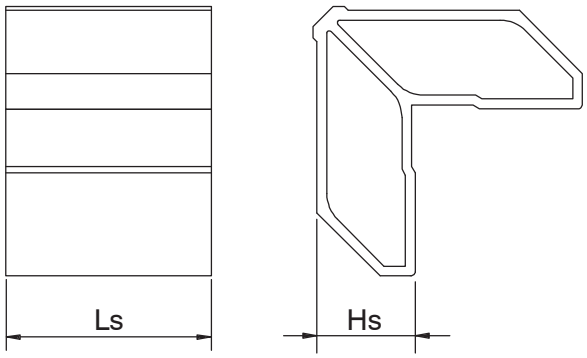
Materials
Body in extruded aluminium
Screw in Geomet and buttons in steel with GS Silver Plus finish (over 500 hours of corrosion resistance)
Springs in stainless steel

Parts
CSH screw M6 x 14.8

Rex snap-mounting corner joint



Shimming bracket



Item code	Description	L (mm)	H (mm)	A (mm)	Matching products	Ls (mm)	Hs (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00325	REX snap-mounting CORNER JOINT	19,2	10,3÷11,2	42÷43	-	-	-	X				250
00326	REX snap-mounting CORNER JOINT	28,5	10,3÷11,2	42÷43	-	-	-	X				250
00334	SHIMMING BRACKET	-	-	-	00356	30,4	23,7	X				100
00350	REX snap-mounting CORNER JOINT	41	10,3÷11,2	42÷43	-	-	-	X				250
00351X	REX snap-mounting CORNER JOINT	24	10,3÷11,2	42÷43	-	-	-	X				250
00352	REX snap-mounting CORNER JOINT	22,4	10,3÷11,2	43	-	-	-	X				250
00353	REX snap-mounting CORNER JOINT	19,5	10,3÷11,2	42÷43	-	-	-	X				250
00355	REX snap-mounting CORNER JOINT	26	10,3÷11,2	42÷43	-	-	-	X				250
00356	REX snap-mounting CORNER JOINT	35,7	10,3÷11,2	42÷43	00334	-	-	X				250



SCREW CORNER JOINTS

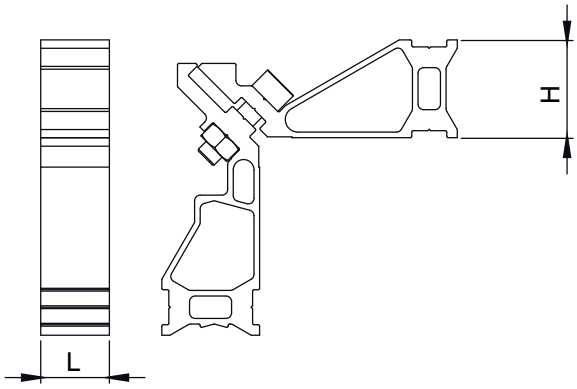
Functions
Joining element for corner connection of aluminium profiles.

Online data sheet

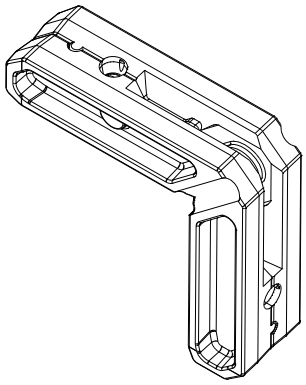
Technical Features
Specific for joining profiles with 45° end cut.
Very sturdy and reliable, they enable locking the corners perfectly and solidly.

Materials
Extruded aluminium body, zinc plated bolt and nut.

Screw corner joint



Item code	Description	L (mm)	H (mm)	Pair	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00397	CORNER JOINT FOR SCREWING ON	28,5	34,9	Yes	X				10
00398	CORNER JOINT FOR SCREWING ON	45,8	34,9	No	X				20
06791	CORNER JOINT FOR SCREWING ON	28,1	9,6	No	X				50



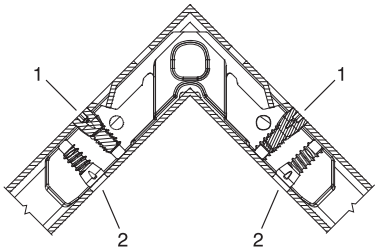
MULTIFUNCTION CORNER JOINT

Functions
Joining element for corner connection of aluminium profiles.

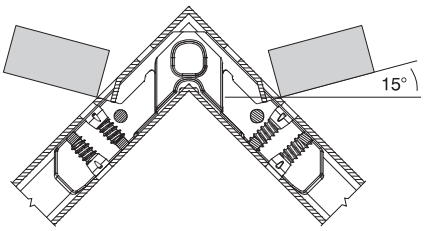
Online data sheet

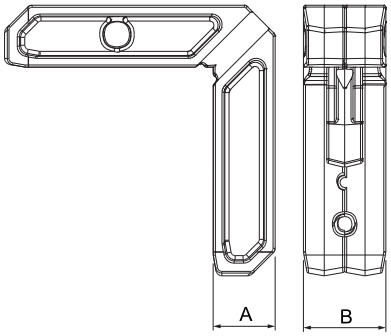
Technical Features
Multipurpose corner joint: for screwing (in combination with certain screws), pinning or crimping with special grooves for the glue to run along.

Tightening with screw: (1) outward opening (2) inward opening



Tightening with crimping





Item code	Description	A (mm)	B (mm)	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06521	SCREW M5X14_D8	14	Ø8	06532, 06533, 06534, 06535	X				1000
06523	SCREW M5X12.5_ST	12	Ø8		X				1000
06532	MULTI-FUNCTIONAL CORNER JOINT	14,4	23	06521	X				200
06533	MULTI-FUNCTIONAL CORNER JOINT	14,3	16,8	06521	X				200
06534	MULTI-FUNCTIONAL CORNER JOINT	14,8	26,4	06521	X				200
06535	MULTI-FUNCTIONAL CORNER JOINT	14,5	19,5	06521	X				200



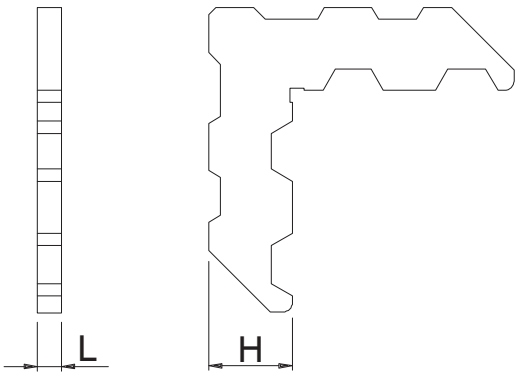
ALIGNMENT CORNER JOINTS

Functions
Pressure fitting corner joints which join and align the walls.

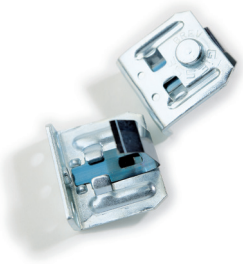
Online data sheet

Technical Features
Required to align the walls once the window/door has been assembled.
Quick and easy press-fitting design.

Alignment corner joint



Item code	Description	L (mm)	H (mm)	Material	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00360	ALIGNMENT CORNER JOINT	5,1	17,5	Aluminium	-	X				100
00362	ALIGNMENT CORNER JOINT	5,1	37,5	Aluminium	-	X				100
00363	ALIGNMENT CORNER JOINT	5,1	10	Aluminium	-	X				100
00365	ALIGNMENT CORNER JOINT	1,7	4,7	Stainless Steel	-	X				1000
00366	ALIGNMENT CORNER JOINT	6	26,5	Polyamide	-	X				200
01224	ALIGNMENT CORNER JOINT	3,6	16,1	Polyamide	-	X				200
02368	ALIGNMENT CORNER JOINT	2,8	14,2	Polyamide	-	X				200
02380	ALIGNMENT CORNER JOINT	3,2	34,6	Polyamide	-	X				200
03463	ALIGNMENT CORNER JOINT	1,8	17,4	Polyamide	-	X				200
06528	ALIGNMENT CORNER JOINT	4,1	19,3	Aluminium	-	X				250
06529	ALIGNMENT CORNER JOINT	4,1	16,3	Aluminium	-	X				250
06579	ALIGNMENT CORNER JOINT	4,8	16,2	Aluminium	-	X				250



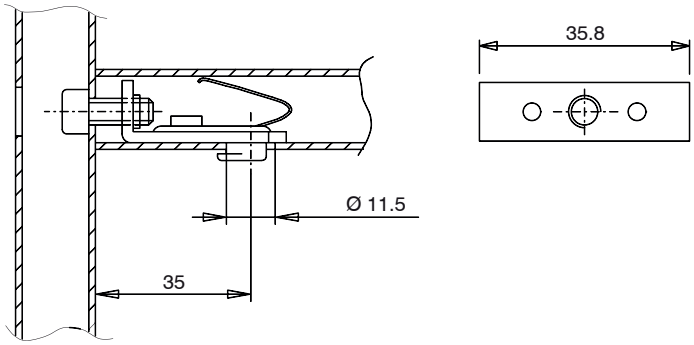
ALEX STEEL T-JOINTS

Functions
Head joint for the T-connection of extruded aluminium profiles, quick to mount and secure.

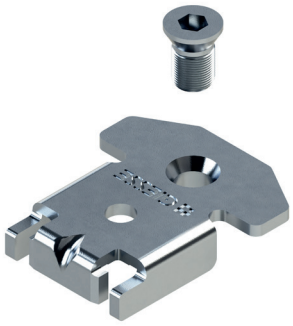
Online data sheet

Technical Features
Drilled and tapped M6.
The coupling nib forms a single body with its structure (exploiting the features of the KAPPA corner joint).
The plate spring supplied allows safe and rapid positioning.
Since the T-joint is clamping, it is locked on tightening the M6 screw not supplied.

Materials
Body of zinc plated steel
Spring in hardened steel.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00471	ALEX STEEL T-JOINT	35.8x14 mm	X				100



ROBUR STEEL T-JOINTS

Functions

Head joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.

Online data sheet

Technical Features

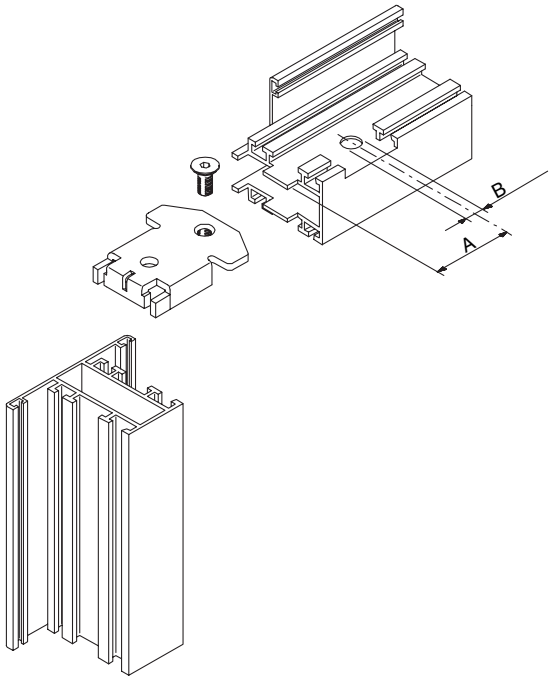
Since the T-joint is clamping, it is locked on tightening the screw.
Using two opposing T-joints enables cross-joining the profiles.

Materials

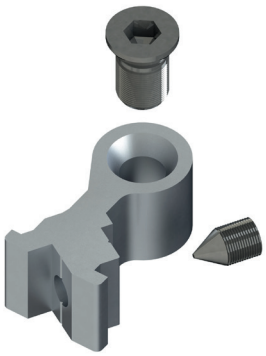
Body and closing screw in zinc plated steel

Parts

1 Closing screw M8x13



Item code	Description	A (mm)	B (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00476	ROBUR T-JOINT	35	10,5	X				100
00477	ROBUR T-JOINT	35	10,5	X				100
00481	ROBUR T-JOINT	35	11,5	X				50



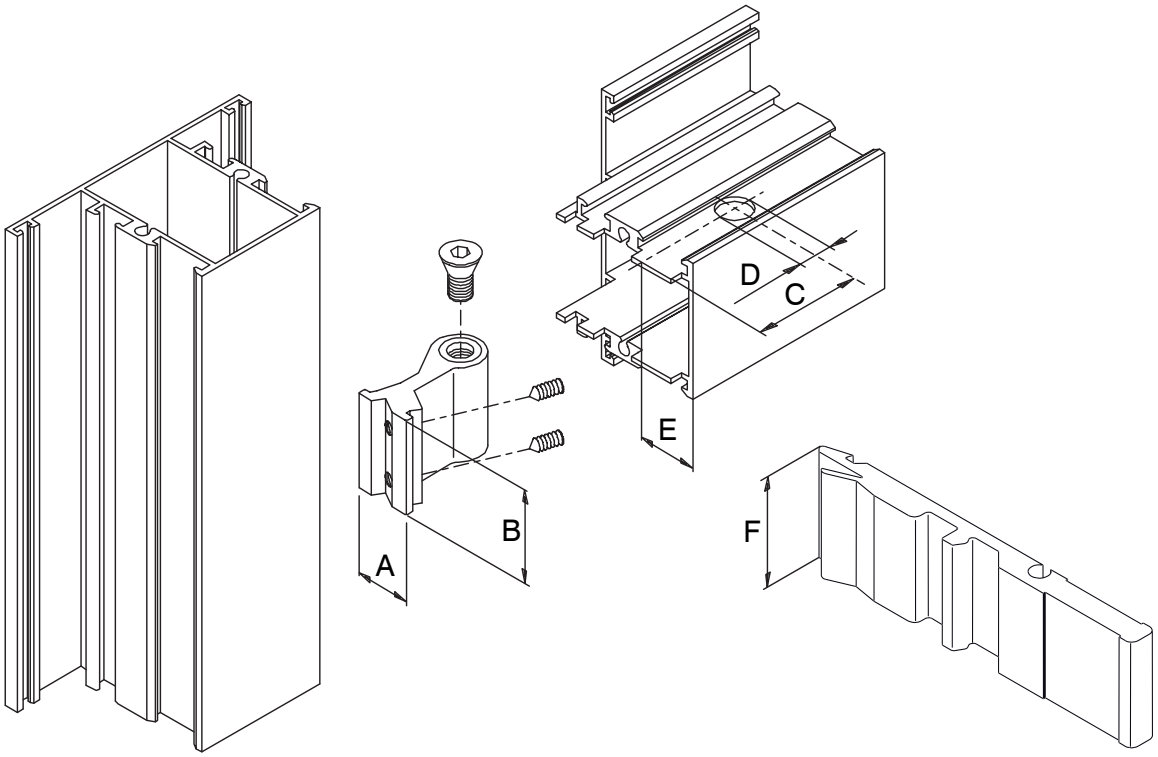
EXTRUDED ALUMINIUM T-JOINTS

Functions
Head joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.

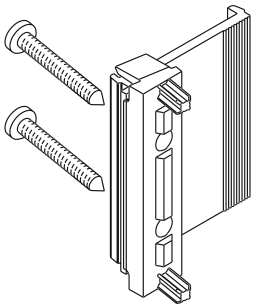
Online data sheet

Technical Features
Joint for the cross and T-connection of extruded aluminium profiles, quick to mount and secure.
They are equipped with a special pull screw that prevents any interference with the glazing bead.

Materials
Body in extruded aluminium.
Zinc plated steel screw.
Zinc plated steel grub screw.



Item code	Description	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00420	EXTRUDED ALUMINIUM T-JOINT	30,7	14,15	33	11,5	-	-	-	X				100
00425	EXTRUDED ALUMINIUM T-JOINT	17,5	14,7	33	11,5	14,5	-	-	X				100
00428N	EXTRUDED ALUMINIUM T-JOINT	17,5	14,1	27,5	10,5	11,7	-	-	X				100
00429	EXTRUDED ALUMINIUM T-JOINT	17,5	10,7	27,5	10,5	11,6	-	-	X				100
00430N	EXTRUDED ALUMINIUM T-JOINT	17,5	20	27,5	10,5	11,6	-	-	X				100
00431	EXTRUDED ALUMINIUM T-JOINT	17,5	31,35	27,5	10,5	11,8	-	-	X				50
00432	EXTRUDED ALUMINIUM T-JOINT	17,5	17,55	33,3	10,5	14,5	-	-	X				100
00443	EXTRUDED ALUMINIUM T-JOINT	-	-	-	-	-	102,5	Pin	X				100
00474	EXTRUDED ALUMINIUM T-JOINT	29,4	13,9	35	10,5	20,5	-	-	X				100
00475N	EXTRUDED ALUMINIUM T-JOINT	29,4	37,5	35	10,5	20,5	-	-	X				50
00479	EXTRUDED ALUMINIUM T-JOINT	34,2	38	35	10,5	20,5	-	-	X				50
00484	EXTRUDED ALUMINIUM T-JOINT	19,5	10,45	33	10,5	-	-	-	X				100
00485	EXTRUDED ALUMINIUM T-JOINT	38,6	10,5	33	10,5	-	-	-	X				100
00486	EXTRUDED ALUMINIUM T-JOINT	38,7	10	35	10,5	-	-	-	X				100
00487	EXTRUDED ALUMINIUM T-JOINT	43,7	14,5	35	10,5	-	-	-	X				100
89989	EXTRUDED ALUMINIUM T-JOINT	18,4	10,5	22,5	10,5	11,7	-	-	X				100

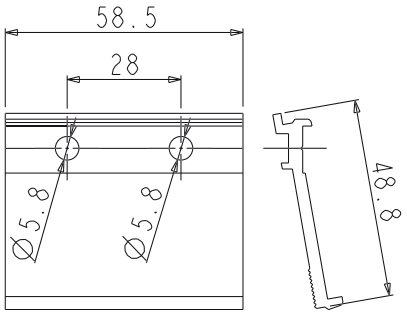


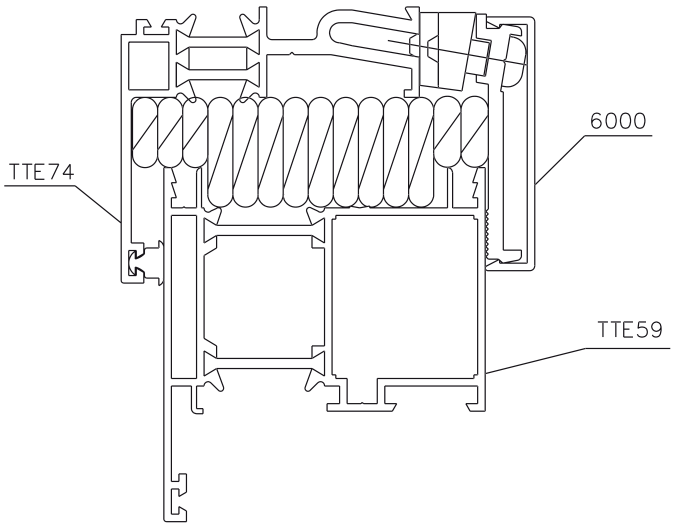
FIXING BRACKET

Functions
Wall fixing bracket, surface-mounting, for normal and insulating windows.

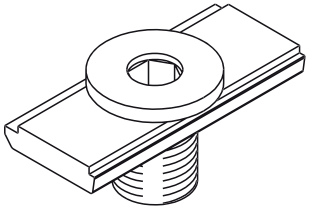
Online data sheet

Materials
Bracket in extruded aluminium
Fibreglass reinforced polyamide shims
Zinc plated steel screws.





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01228	FIXING BRACKET	to the wall	X				50



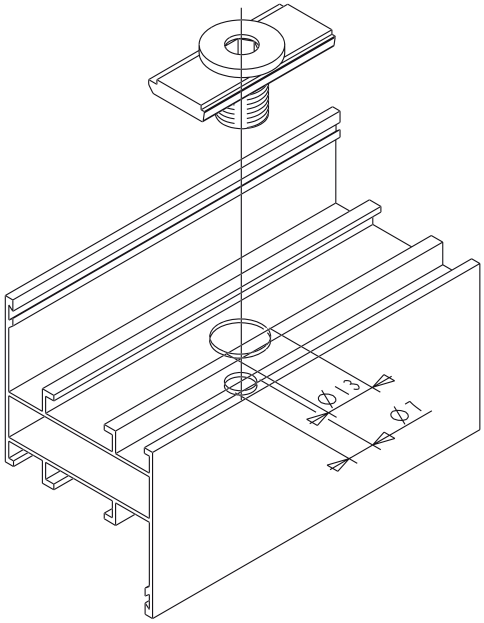
FIXING ADAPTER

Functions
Movable rule to compensate for the tolerances between the iron counter-frame and the aluminium frame to be inserted in the frame on the outer side.

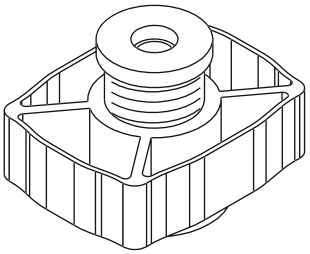
Online data sheet

Technical features
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement. To do this, use an Allen wrench CH6.

Materials
Extruded aluminium base
Pull screw in black polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02319	FIXING ADAPTER		X				100



MINCIO FIXING ADAPTER

Functions

Movable rule to compensate for the tolerances between the iron counter-frame and the aluminium frame to be inserted in the frame on the outer side.

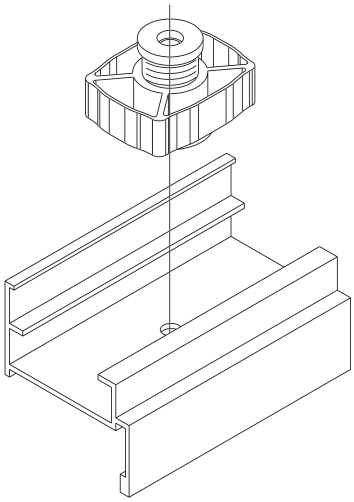
Online data sheet

Technical features

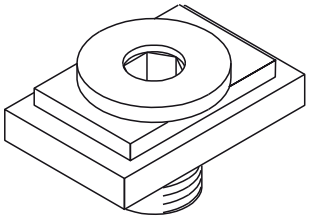
Specific for sections 40x18/20, 50x20 and 50x25.
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement.
To do this, use an Allen wrench CH6.

Materials

Body and screw in black polyamide.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02326	MINCIO FIXING ADAPTER	screw 40x18/20 mm - mm 50x20/25	X				100



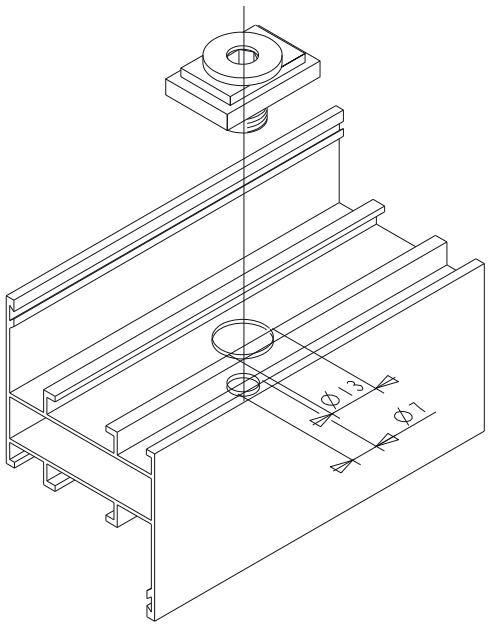
FIXING ADAPTER

Functions
Movable rule to compensate for the tolerances between the iron counter-frame and the aluminium frame to be inserted in the frame on the outer side.

Online data sheet

Technical features
Once the casement has been set in the specific compartment, take the pull screws to rest on the iron counter-frame and correctly position the casement. To do this, use an Allen wrench CH6.

Materials
Zinc plated zamak plate
Black polyamide screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02365	FIXING ADAPTER		X				200



SKATTO FIXING ADAPTER

Functions

The SKATTO adjustable compensator is the smartest solution for fixing between the aluminium counter-frame and the masonry work, compensating for the existing tolerances between the two items.

Online data sheet

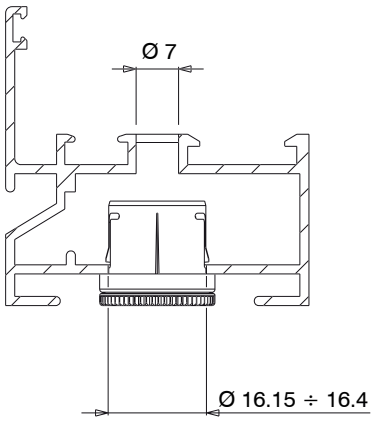
Technical features

SKATTO is quick to install and easy to adjust.

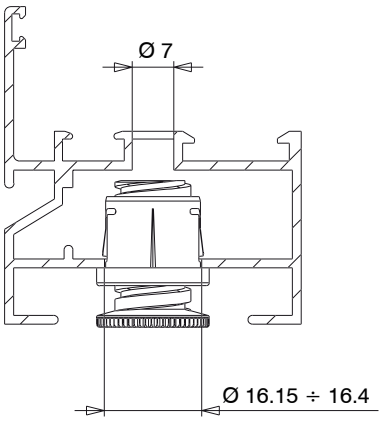
Materials

Housing in Zamak
Adjustment screw in polyamide reinforced with fibreglass.

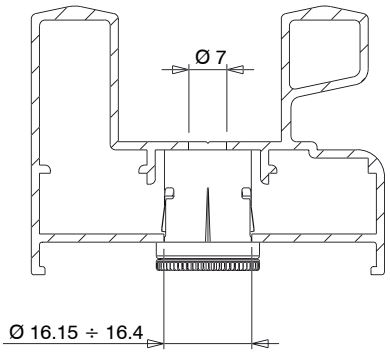
Machining Art. 06500



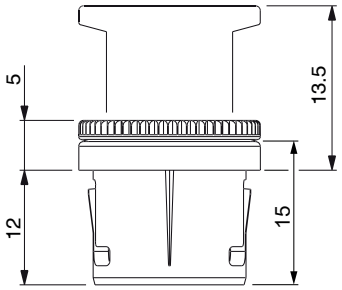
Machining Art. 06501



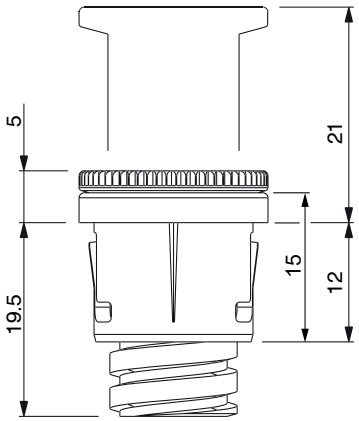
Machining Art. 06502



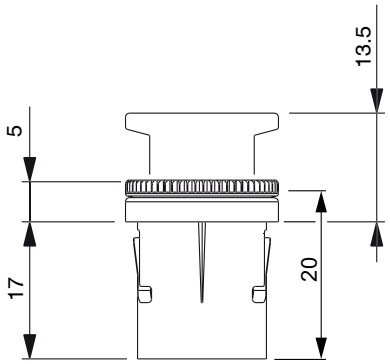
Dimensions Art. 06500



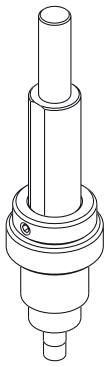
Dimensions Art. 06501



Dimensions Art. 06502



Item code	Description	Length of screw (mm)	Height of the housing (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06500	SKATTO FIXING ADAPTER	17,2	15	X				500
06501	SKATTO FIXING ADAPTER	24,7	15	X				500
06502	SKATTO FIXING ADAPTER	17,2	20	X				500



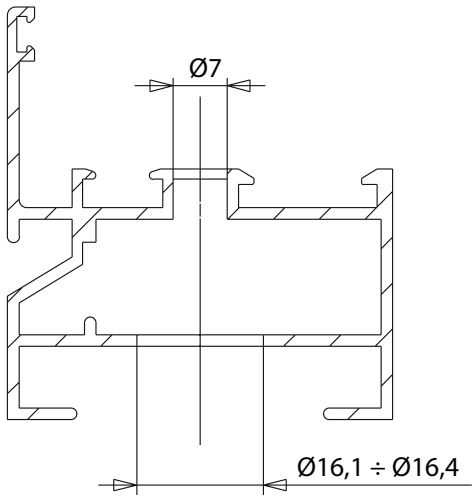
SKATTO COMPENSATOR TOOL

Functions
Tool used to do the machining for mounting the SKATTO compensator.

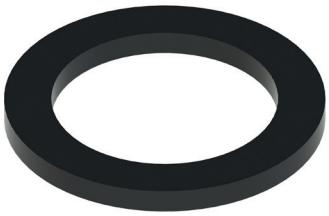
Online data sheet

Technical features
It consists of an adjustable counterbore and an adjustable stop.
Counterbore tool with 2 diameters, one for fixing the compensator Ø 16.2 and one for the screw passage Ø 7.

Materials
Tool body made of special steel
Adjustable counterbore made of special steel
Adjustable stop made of treated steel
2 Flat-tipped stainless steel grub screws M 5 x 5.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06510	SKATTO COMPENSATOR TOOL		X				1

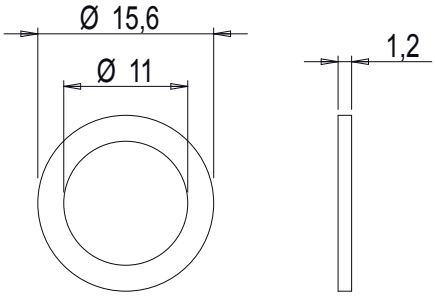


SHIMMING WASHER

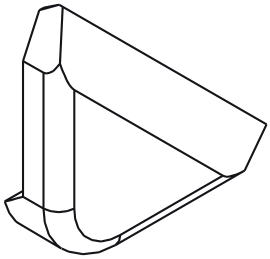
Functions
Shim washer to be used in conjunction with the Giesse hinges, when required.

Online data sheet

Materials
Polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02301	SHIMMING WASHER		X				100

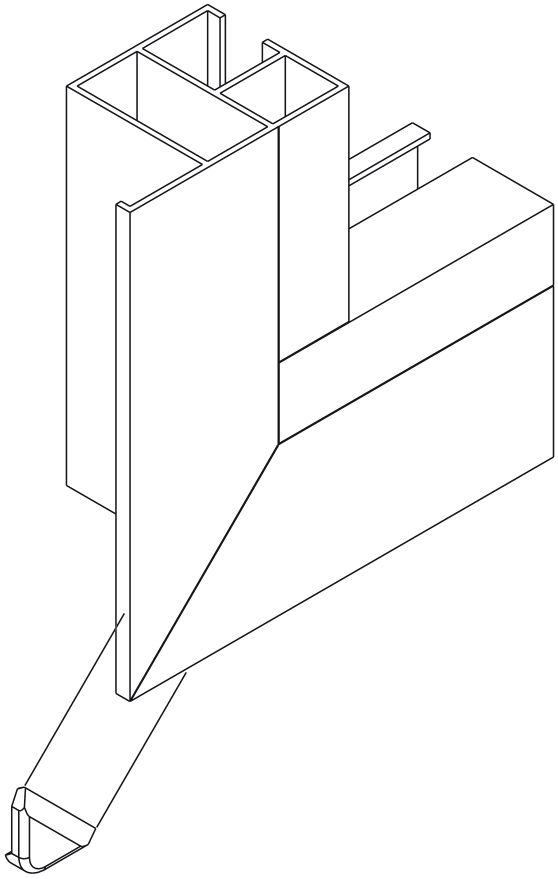


CORNER COVER PLUG

Functions
Polyamide component to be glued in the corners of the sashes to cover sharp edges.

Online data sheet

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02394	CORNER COVER PLUG	black polyamide	X				500

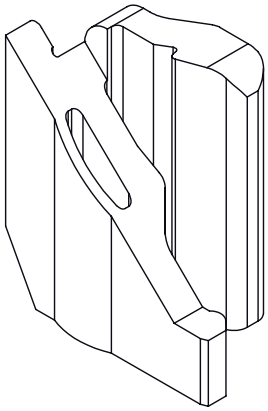


GLAZING BEAD CLIP

Functions
Glazing bead clip.

Online data sheet

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0086401	GLAZING BEAD CLIP	35,5 mm	X				100



CAPS

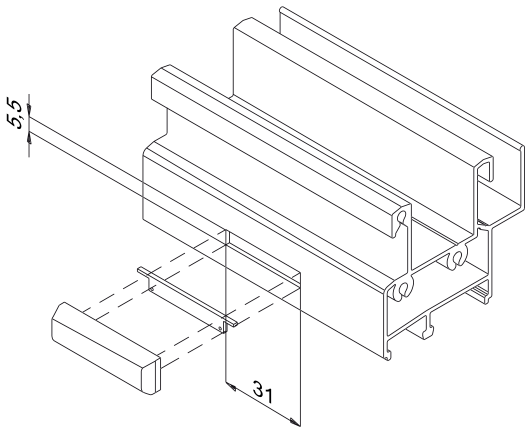
Functions
Polyamide part with snap fitting, to be used for covering the drain slot.

Online data sheet

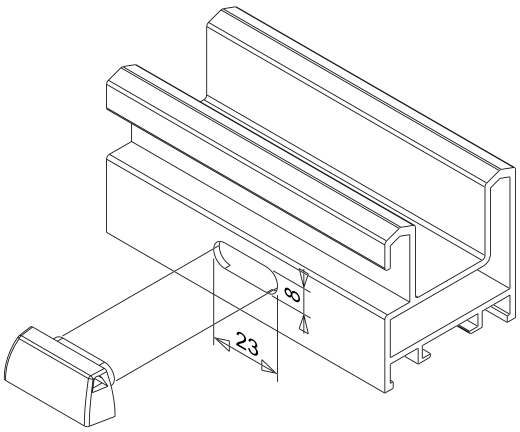
Technical Features
The drain cap has a quick-fit snap-fix fastener, on the special machinings in the figure.
Enables the water in the groove to be drained off quickly outside the room.
The particular shape of the cap and the presence of an internal valve (when fitted) allow an optimal run-off of water even under conditions of strong external pressure caused by the wind.

Materials
Black polyamide

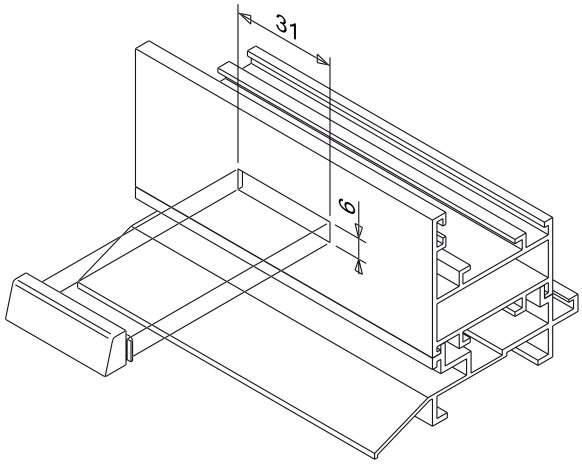
Machining art. 01261



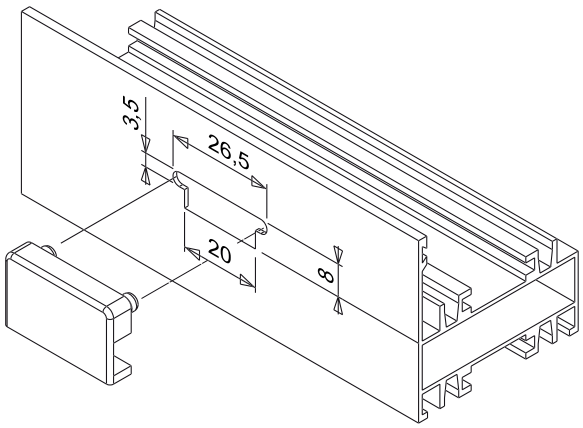
Machining art. 02282



Machining art. 02314

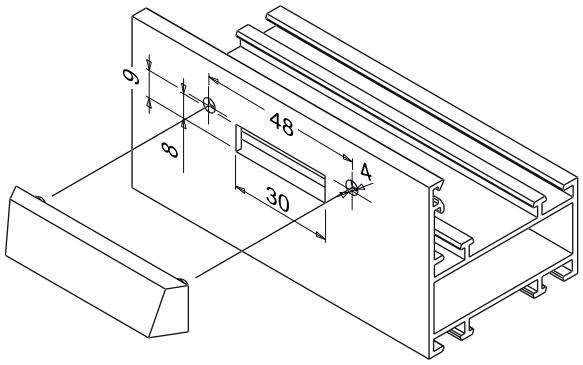


Machining art. 02328

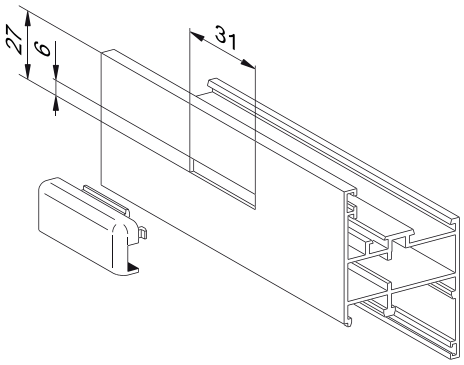


VARIOUS COMPONENTS

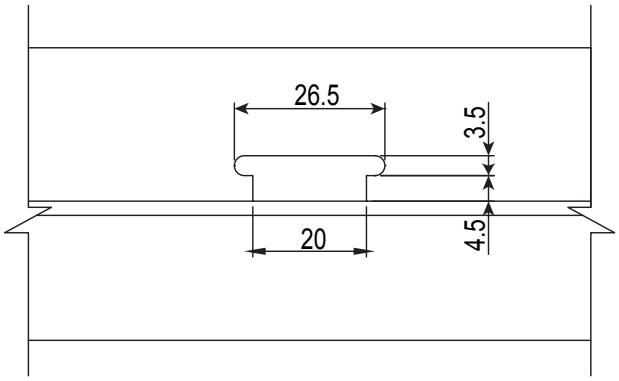
Machining art. 02354



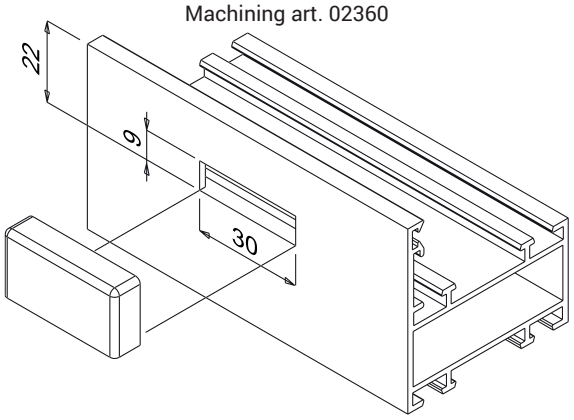
Machining art. 02357



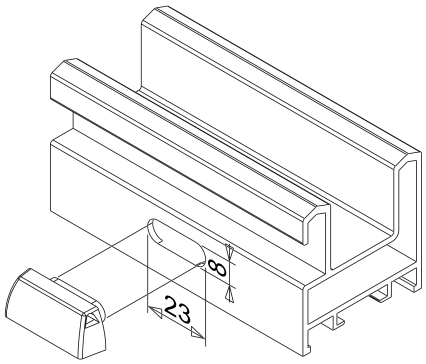
Machining art. 02359



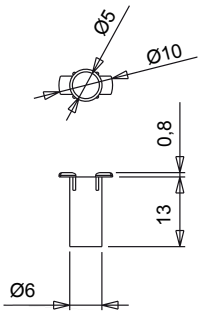
Machining art. 02360



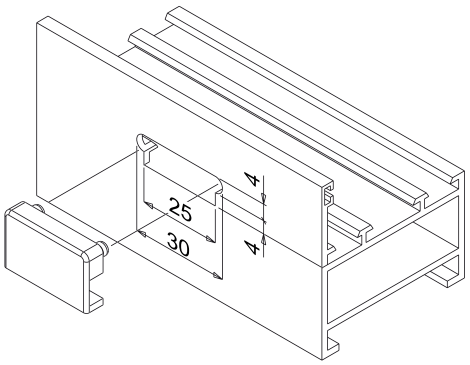
Machining art. 03149



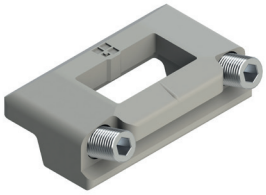
Bushing in combination with art. 03149



Machining art. 03195



Item code	Description	Note	Material	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01261	DRAINAGE HOLE CAP	with valve	Black polyamide	X				100
02282	DRAINAGE HOLE CAP	with valve	Black polyamide	X				50
02314	DRAINAGE HOLE CAP		Black polyamide	X				1000
02328	DRAINAGE HOLE CAP		Black polyamide	X				1000
02354	DRAINAGE HOLE CAP		Black polyamide	X				1000
02357	DRAINAGE HOLE CAP		Black polyamide	X				1000
02359	DRAINAGE HOLE CAP		Black polyamide	X				1000
02360	DRAINAGE HOLE CAP		Black polyamide	X				1000
03149	DRAINAGE HOLE CAP	with pallet drain bushing and valve	Black polyamide	X				50
03195N	DRAINAGE HOLE CAP		Black polyamide	X				1000



SASH SUPPORT PLUGS

Functions

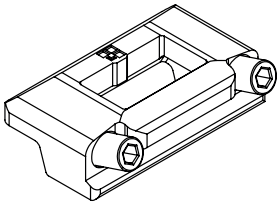
Component used for restoring the position of the sash during closing by sliding against the series striker.

Online data sheet

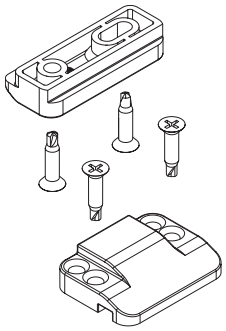
Technical Features

Used in combination with the corner drive, it shifts the weight of the sash during closing off the hinges and restores the sash to its theoretical position when it is closed.
Essential for proper isolation of the room from atmospheric agents.

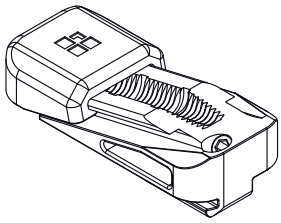
01355K



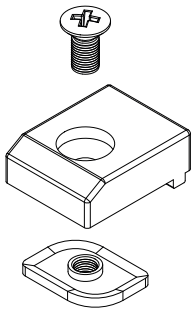
01717



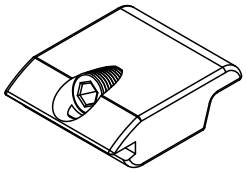
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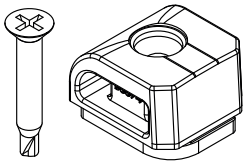
02309



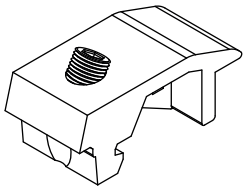
02336



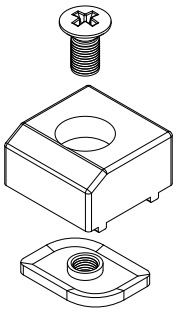
02352



02366



02390



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01355K	SASH RAISER STRIKER	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				100
01717	CENTER SAH RAISER	17 mm STACK	X				100
02196	ADJUSTABLE SASH RAISER	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				100
02309	SASH SUPPORT PLUG	C009	X				100
02336	SASH SUPPORT PLUG	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	X				500
02352	SASH LIFTING COMPONENT	C001-C002-C003-C004-C005-C011-C012-C013-C014-C015-C016-C017	X				100
02366	SASH SUPPORT PLUG	C008	X				200
02390	SASH SUPPORT PLUG		X				100

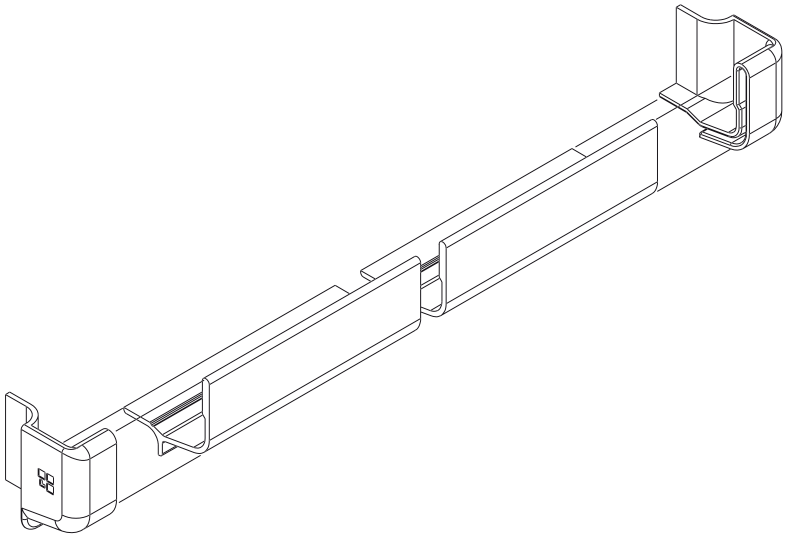


CONDENSATE PLUGS

Functions
Pair of caps for condensation trap and/or drip profiles for aluminium windows.

Online data sheet

Technical Features
Black polyamide components to be used as infill of the ends of the condensation trap profile and/or drip profile, for press-fitting and lock with adhesives.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03203	CONDENSATE PLUGS	right+left	X				50



HOLE PLUGS

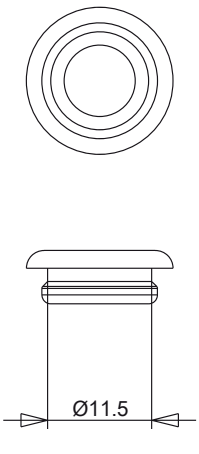
Functions
Component made for closing holes.

Online data sheet

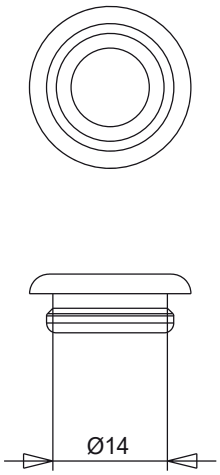
Technical Features
Enables concealing unsightly machining on the profile and protects your fingers from any burrs.

Materials
Black rubber

02331



02332



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02331	HOLE PLUG	diameter 11.5 mm -black	X				500
02332	HOLE PLUG	diameter 14 mm -black	X				500

GIESSE
TYMAN group

ARMS





GS HD ARMS TYPE A

Functions

Two-handed self-balancing arms able to bear the weight of a top-hung or outward opening (side hung) window and hold it in the open position.

Online data sheet

Technical Features

Type-A GS HD arms are suitable for making medium – low size/weight top or side hung windows (see table).
Some models can be used on both these different outward opening casement types (see table).
Type-A GS HD arms can be frictioned by turning the grub screw on the slider.
They can be applied in combination with the I, L and Laser limitation arms; this is in order to limit the maximum opening of a Top Hung sash.
Type-A GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

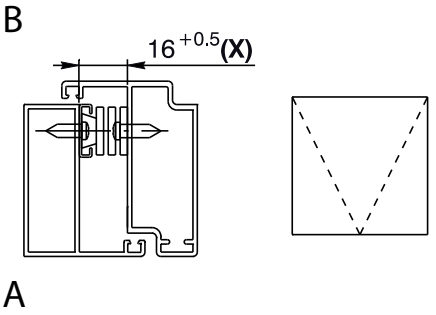
Applicability

Type-A GS HD arms are applicable to sets of profiles with a stack (sash / frame distance) of 16 mm.

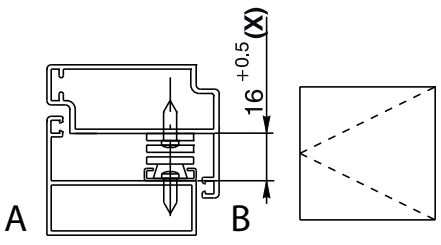
Materials

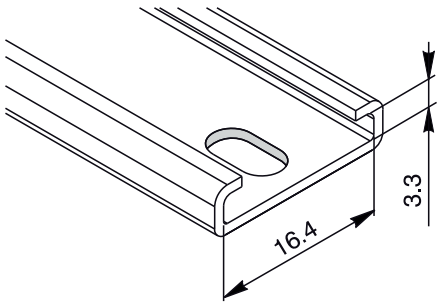
AISI 304 stainless steel

Top Hung (A: internal, B: external)



Side Hung (A: internal, B: external)





Item code	Description	Permitted type of opening	Bag width	Arm thick-ness (mm)	Arm length (mm)	TOP HUNG Maximum opening angle	TOP HUNG Maximum height (mm)	TOP HUNG Maximum width (mm)	TOP HUNG Maximum weight (kg)	SIDE HUNG Maximum height (mm)	SIDE HUNG Maximum width (mm)	SIDE HUNG Maximum weight (kg)	Base Raw	Items per pack
08127N	GS HD - 10" type A	Top -Side	18	15,5+0,5	261	84	400	1200	16	1200	550	14	X	6
08128N	GS HD - 12" type A	Top -Side	18	15,5+0,5	305	85	550	1200	18	1200	600	16	X	6
08129N	GS HD - 14" type A	Top -Side	18	15,5+0,5	351	87	650	1200	20	1200	600	18	X	6
08130N	GS HD - 16" type A	Top -Side	18	15,5+0,5	407	87	750	1200	21	1200	600	20	X	6
08131N	GS HD - 18" type A	Top -Side	18	15,5+0,5	457	87	850	1200	24	1200	650	22	X	6
08133N	GS HD - 22" type A	Top	18	15,5+0,5	563	40	1100	1200	-	-	-	-	X	6

GS HD ARMS TYPE M



Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of a top hung window or outward opening (side hung) window and hold it in the open position.

Online data sheet

Technical Features

Type-M GS HD arms are suitable for making medium – low size/weight top or side hung windows.
Some models can indeed be used on both these different outward opening casement types (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing phases of the sash.
Type-M GS HD arms can be frictioned by turning the grub screw on the slider.
If necessary, type-M GS HD arms can be applied in combination with the N-type limitation arms; this is in order to limit the maximum opening of a Top Hung sash.
Type-M GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

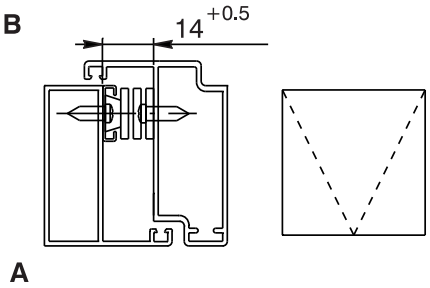
Type-M GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 14 mm.

Ask to your sales rep for product availability.

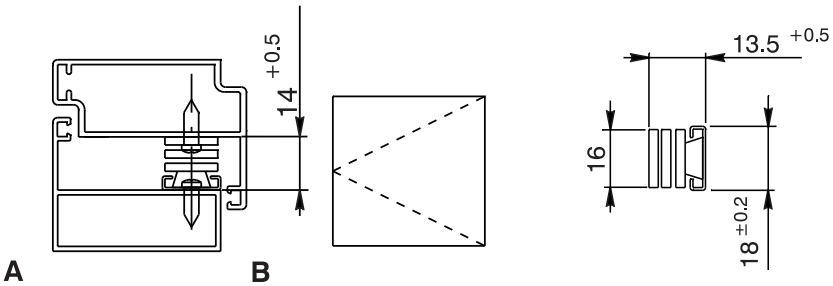
Materials

AISI 304 stainless steel arm
Slider in polyamide and brass

Top Hung (A: internal, B: external)



Side Hung (A: internal, B: external)



Item code	Description	Permitted type of opening	Bag width (mm)	Arm thick-ness (mm)	arm length (mm)	Maximum opening angle	Top Hung maximum height (mm)	Top Hung maximum width (mm)	Top Hung Maximum Weight (kg)	Side Hung maximum height (mm)	Side Hung maximum width (mm)	Side Hung Maximum Weight (kg)	Base Raw	Items per pack
08193	GS HD - 20" type M	Top	18	13,5+0,5	512	40	1000	1200	28				X	6
08194	GS HD - 24" type M	Top	18	13,5+0,5	615	40	1100	1200	35				X	6
08195	GS HD - 12" type M	Top-Side	18	13,5+0,5	310	87	550	1200	20	1200	600	16	X	6
08196	GS HD - 14" type M	Top-Side	18	13,5+0,5	358	87	650	1200	22	1200	600	17	X	6
08197	GS HD - 16" type M	Top-Side	18	13,5+0,5	412	87	750	1200	24	1200	650	20	X	6
08198	GS HD - 18" type M	Top-Side	18	13,5+0,5	459	87	850	1200	26	1200	650	21	X	6
08201	GS HD - 8" type M	Top	18	13,5+0,5	214	70	350	1200	12				X	6
08202	GS HD - 10" type M	Top-Side	18	13,5+0,5	270	87	400	1200	16	1200	550	15	X	6



GS HD ARMS TYPE C

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Online data sheet

Technical Features

Type-C GS HD arms are suitable for medium size/weight outward opening side hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
The EGRESS articles ensure a wider passageway with the sash open, increasing the space for egress, compared to a normal arm type C. These articles do not allow cleaning the glass on the outside.
Art. LOOSE RIVET requires a minimum force for opening and closing the sash.
Art. EASY CLEAN integrates the EGRESS function with the possibility of cleaning the window also on the outside, as it is possible, from time to time, to move the sash sideways and create an opening. After cleaning the outside of the window the arm is put back into its normal working condition.
Type-C GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

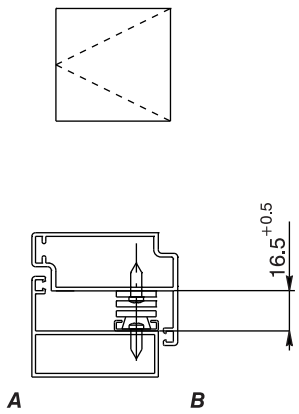
Type-C GS HD arms are applicable to profiles with a stack (sash/frame distance) of 16.5 - 17 mm.

Ask to your sales rep for product availability.

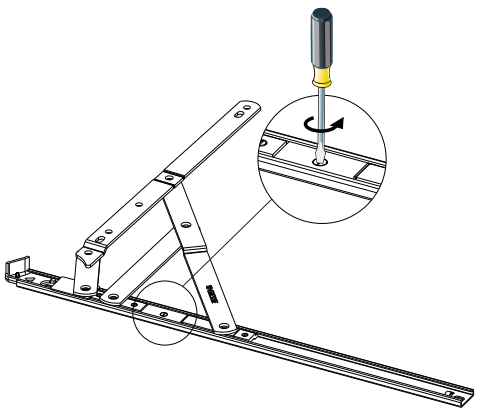
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel

Side Hung (A: internal, B: external)



Unlocking element for cleaning the outside of the sash



Item code	Description	Permitted type of opening	Egress	Loose rivet	Bag width	Sash - frame distance (mm)	arm length (mm)	Maximum opening angle	Side Hung maximum height (mm)	Side Hung maximum width (mm)	Side Hung Maximum Weight (kg)	Side adjustment	Base Raw	Items per pack
0814701	GS HD - 10" type C	Side	NO	NO	23	16,5+0,5	263	82	1600	550	36	/	X	6
0814801	GS HD - 12" type C	Side	NO	NO	23	16,5+0,5	313	85	1600	600	38	/	X	6
0814901	GS HD - 14" type C	Side	NO	NO	23	16,5+0,5	365	87	1600	650	40	/	X	6
0815101	GS HD - 16" type C	Side	NO	NO	23	16,5+0,5	414	87	1600	700	42	/	X	6
0815201	GS HD - 18" type C	Side	NO	NO	23	16,5+0,5	463	87	1600	750	45	/	X	6



GS HD ARMS TYPE C SUPER

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Online data sheet

Technical Features

Type-C Super GS HD arms are suitable for medium size/weight outward opening side hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
These articles are equipped with a side adjustment element integrated in the arm. This feature allows micrometric adjustment of the correct positioning of the sash directly on site once installed.
Type-C Super GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

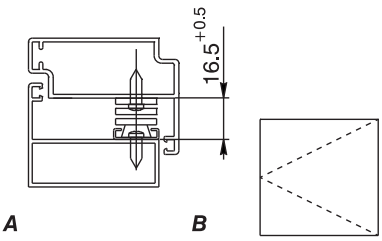
Applicability

Type-C Super GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 16.5 mm.

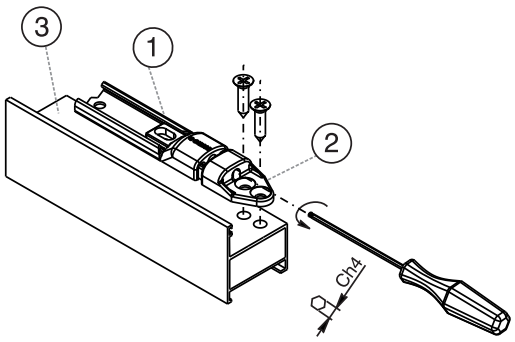
Materials

AISI 304 stainless steel arm;
Slider in polyamide and 304 grade stainless steel
Zamak adjustment element

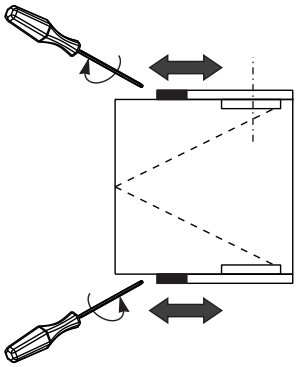
Side Hung (A: internal, B: external)



1: Side Hung arm. 2: width adjustment component. 3: frame



Side Hung



Item code	Description	Permitted type of opening	Bag width	Sash-frame distance (mm)	arm length (mm)	Maximum opening angle	Maximum permissible height (mm)	Maximum permissible width (mm)	Maximum permissible weight (kg)	Side adjustment	Base Raw	Items per pack
0884701	Super GS HD - 10" type C	Side	23	16,5+0,5	323	82	1600	550	36	integrated	X	6
0884801	Super GS HD - 12" type C	Side	23	16,5+0,5	373	85	1600	600	38	integrated	X	6
0884901	Super GS HD - 14" type C	Side	23	16,5+0,5	425	87	1600	650	40	integrated	X	6
0885101	Super GS HD - 16" type C	Side	23	16,5+0,5	474	87	1600	700	42	integrated	X	6
0885201	Super GS HD - 18" type C	Side	23	16,5+0,5	523	87	1600	750	45	integrated	X	6



GS HD ARMS TYPE C PLUS

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Online data sheet

Technical Features

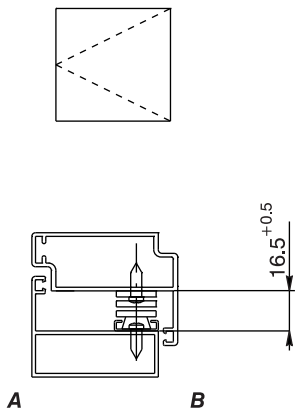
Type-C Plus GS HD arms are suitable for medium size/weight outward opening (side hung) casement windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
Type-C Plus GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Ask to your sales rep for product availability.

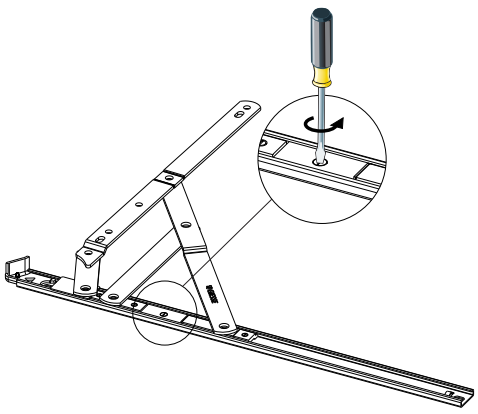
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel

Side Hung (A: internal, B: external)



Unlocking element for cleaning the outside of the sash



Item code	Description	Permitted type of opening	Egress	Loose rivet	Bag width	Sash - frame distance (mm)	Arm length (mm)	Maximum opening angle	Side Hung maximum height (mm)	Side Hung maximum width (mm)	Side Hung Maximum Weight (kg)	Side adjust-ment	Base Raw	Items per pack
08225	GS HD - 16" type C Plus	Side	NO	NO	~23	16,5+0,5	414	87	1600	750	42	/	X	6



GS HD ARMS TYPE C PLUS SUPER

Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of an outward opening side-hung window and hold it in the open position.

Online data sheet

Technical Features

"Type-C Plus Super" GS HD Super Arms are suitable for medium size/weight outward opening (side hung) casement windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
These articles are equipped with a side adjustment element integrated in the arm. This feature allows micrometric adjustment of the correct positioning of the sash directly on site once installed.
Type-C Plus Super GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

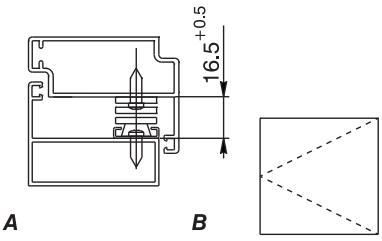
"Type-C Plus Super" GS HD Super arms are applicable to profile systems with a gap (sash/frame distance) of 16.5 mm +- 0.5 mm.

Ask to your sales rep for product availability.

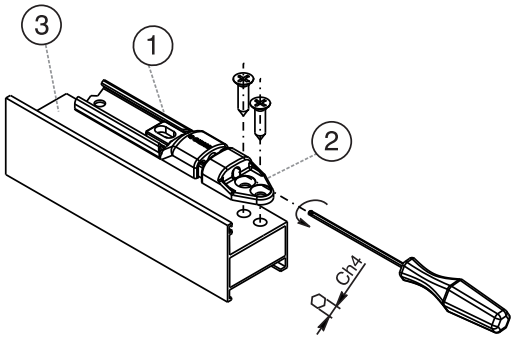
Materials

AISI 304 stainless steel arm;
Slider in polyamide and 304 grade stainless steel
Zamak adjustment element

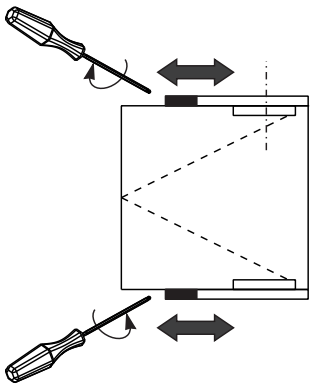
Side Hung (A: internal, B: external)



1: Side Hung arm. 2: width adjustment component. 3: frame



Side Hung



Item code	Description	Permitted type of opening	Bag width	Sash-frame distance (mm)	Arm length (mm)	Maximum opening angle	Maximum permissible height (mm)	Maximum permissible width (mm)	Maximum permissible weight (kg)	Side adjustment	Base Raw	Items per pack
08232	GS HD Super - 10" type C Plus	Side	~23	16,5+0,5	327,5	82	1600	500	32	integrated	X	6
08233	GS HD Super - 12" type C Plus	Side	~23	16,5+0,5	373,5	85	1600	600	38	integrated	X	6
08234	GS HD Super - 14" type C Plus	Side	~23	16,5+0,5	425,5	87	1600	650	40	integrated	X	6
08235	GS HD Super - 16" type C Plus	Side	~23	16,5+0,5	474,5	87	1600	750	42	integrated	X	6
08236	GS HD Super - 18" type C Plus	Side	~23	16,5+0,5	523,5	87	1600	800	45	integrated	X	6

GS HD ARMS TYPE P



Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of a top hung window and hold it in the open position.

Online data sheet

Technical Features

Type-P GS HD arms are suitable for medium to large size/weight top-hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing phases.
Type-P GS HD arms may be frictioned by way of the grub screw on the slider and, depending on the model, you can choose also the maximum sash opening angle (see table).
To make operable fixtures with different dimensions and weights to those indicated in the table, please call the Giesse technical service.
Type-P GS HD arms, depending on the version, provide micrometric height adjustment.
If necessary, the P type arms can be applied with the I, L and Laser limitation arms; this is in order to limit the maximum opening of the sash.
Type-P GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

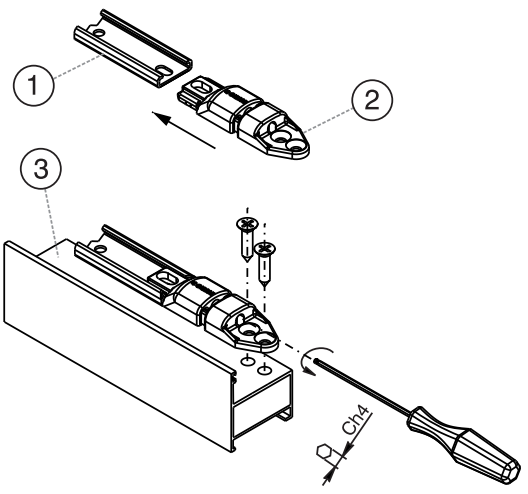
Type-P GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 16.5 - 17 mm.

Ask to your sales rep for product availability.

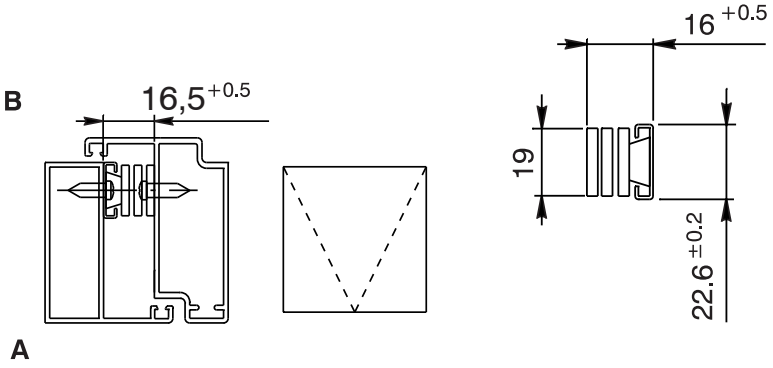
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel
Zamak height-adjustment device

1: Top hung arm. 2: height adjustment component.
3: frame.



Top Hung (A: internal, B: external)



ARMS FOR CURTAIN WALL-TOP HUNG-SIDE HUNG WINDOWS

Item code	Description	PROFILE CROSS - SECTION	Permitted type of opening	Bag width (mm)	Arm thick-ness (mm)	Arm length (mm)	Opening angles	Top Hung maximum height (mm)	Top Hung maximum width (mm)	Top Hung Maximum Weight (kg)	Applicable height adjuster	Base Raw	Items per pack
08348	GS HD - 26-180" type P	-	Top	23	16,5+0,5	690	20°	2000	1500	155 - 180 limited to 7° by way of limitation arms	art. 02006K	X	6
08309	GS HD - 10" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	259	50°	600	1500	25	-	X	6
08351	GS HD - 22" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	567	20°/45°	1500	1700	100 (20°) - 80 (max 30°)	-	X	6
08352	GS HD - 28" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	711	15°	2000	1700	100	-	X	6
08362	GS HD - 28" type P	C001-C002-C003-C004-C005-C006-C012	Top	-	Euro groove central gasket	711	15°	2000	1700	100	-	X	6
08534N	GS HD - 10" type P	-	Top	23	16,5+0,5	261	35°	700	1200	50	art. 02006K	X	6
08535N	GS HD - 12" type P	-	Top	23	16,5+0,5	317	30°/35°	800	1200	60	art. 02006K	X	6
08536N	GS HD - 14" type P	-	Top	23	16,5+0,5	353	30°/35°	1000	1300	69,5	art. 02006K	X	6
08537N	GS HD - 16" type P	-	Top	23	16,5+0,5	414	30°/35°	1200	1400	88,5	art. 02006K	X	6
08538N	GS HD - 18" type P	-	Top	23	16,5+0,5	458	25°/30°	1400	1400	102	art. 02006K	X	6
08539N	GS HD - 20" type P	-	Top	23	16,5+0,5	511	25°/30°	1600	1500	135	art. 02006K	X	6
08540N	GS HD - 22" type P	-	Top	23	16,5+0,5	556	20°/25°	1700	1500	137	art. 02006K	X	6
08541N	GS HD - 24" type P	-	Top	23	16,5+0,5	602	20°/25°	1800	1500	139	art. 02006K	X	6
08542N	GS HD - 28" type P	-	Top	23	16,5+0,5	707	10°/15°/20°	2000	1500	155	art. 02006K	X	6

GS HD ARMS TYPE P SUPER



Functions

Pair of self-balancing arms (one right and one left) able to bear the weight of a top hung window and hold it in the open position.

Online data sheet

Technical Features

Type-P GS HD arms are suitable for medium to large size/weight top-hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing phases of the sash.
Type-P GS HD arms may be frictioned by way of the grub screw on the slider and, depending on the model, you can choose also the maximum sash opening angle (see table).
To make operable fixtures with different dimensions and weights to those indicated in the table, please call the Giesse technical service.
Type-P GS HD arms, depending on the version, provide micrometric height adjustment with the sash already installed.
If necessary, the P type arms can be applied with the I, L and Laser limitation arms; this is in order to limit the maximum opening of the sash.
Type-P Super GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

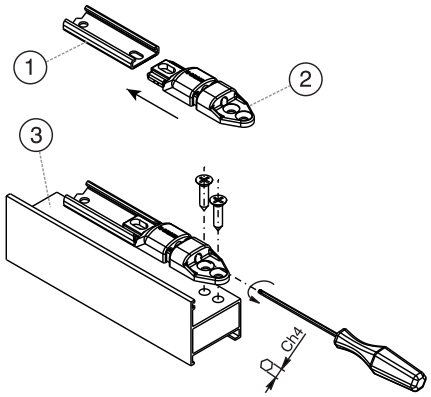
Applicability

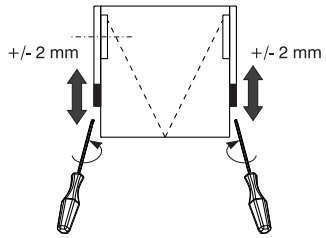
Type-P GS HD arms are applicable to sets of profiles with a stack (sash/frame distance) of 16.5 - 17 mm.

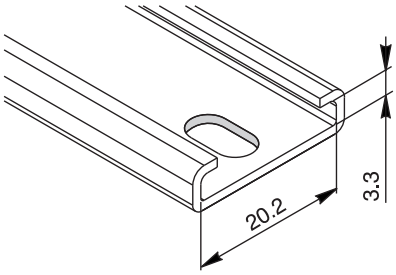
Materials

AISI 304 stainless steel arm
Slider in polyamide and 304 grade stainless steel
Zamak height-adjustment device

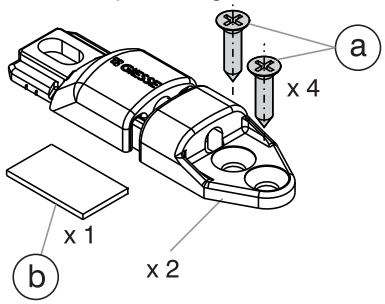
1: Top hung arm. 2: height adjustment component. 3: frame.







(a) self-tapping countersunk screws 4.8 mm, (b) shim for positioning arm.



Item code	Description	Permitted type of opening	Bag width (mm)	Arm thickness (mm)	Arm length (mm)	Opening angles	Top Hung maximum height (mm)	Top Hung maximum width (mm)	Top Hung Maximum Weight (kg)	Height adjuster	Base Raw	Items per pack
08886	Super GS HD - 10" type P	Top	23	16,5+0,5	322	35°	700	1200	50	Integrated	X	6
08887	Super GS HD - 12" type P	Top	23	16,5+0,5	378	30°/35°	800	1200	60	Integrated	X	6
08888	Super GS HD - 14" type P	Top	23	16,5+0,5	414	30°/35°	1000	1300	69,5	Integrated	X	6
08889	Super GS HD - 16" type P	Top	23	16,5+0,5	475	30°/35°	1200	1400	88,5	Integrated	X	6
08890	Super GS HD - 18" type P	Top	23	16,5+0,5	519	25°/30°	1400	1400	102	Integrated	X	6
08891	Super GS HD - 20" type P	Top	23	16,5+0,5	572	25°/30°	1600	1500	135	Integrated	X	6
08892	Super GS HD - 22" type P	Top	23	16,5+0,5	617	20°/25°	1700	1500	137	Integrated	X	6
08893	Super GS HD - 24" type P	Top	23	16,5+0,5	663	20°/25°	1800	1500	139	Integrated	X	6
08894	Super GS HD - 28" type P	Top	23	16,5+0,5	768	10°/15°/20°	2000	1500	155	Integrated	X	6



GS HD ARMS TYPE TS

Functions

Pair of arms (RH/LH) for outward opening (side hung) or top hung aluminium windows.

Online data sheet

Technical Features

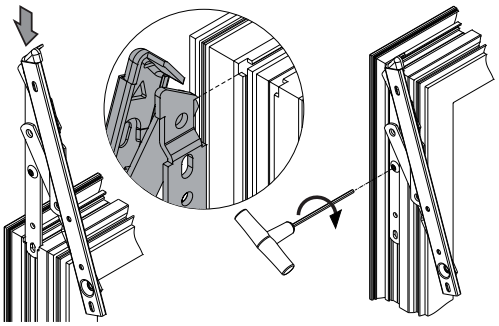
Type-TS GS HD arms are suitable for medium size/weight outward opening side hung or top hung windows (see table).
Since the upper part of the arm is asymmetrical, within the pair of arms we will have a right and a left; this asymmetrical geometry of the arm improves the return and closing of the sash.
The window opening can also be frictioned by turning the grub screw on the slider.
The Range of TS-type GS HD Arms is divided into two groups:
a) applicable on systems with a stack of 16.5 mm
b) applicable on systems with a stack of 11.5 mm (European groove central gasket)
(See table)
a) TS-type GS HD arms for systems with a stack of 16.5 mm require a sash/frame distance of 16.5 mm, market standard for curtain walls.
b) TS-type GS HD arms for European grooves (Euro groove central gasket) due to their special geometry position themselves in the channel 15/20 on the sash. Pre-assembled grub screws on the connecting bracket that fits in the sash allow quickly fixing the product at first. These arms mount to the frame (with 14/18 channel) with self-threading screws (not included). For solid, durable arm fixing on the frame you need to create a flat surface beneath it. For 14/18 or 13.5 / 16.8 frame channels, Giesse recommends using the filling shim (see the relevant family), to be assembled under each arm fixing hole/slot.
Type-TS GS HD arms are tested by Giesse for up to life-time 30.000 cycles.

Applicability

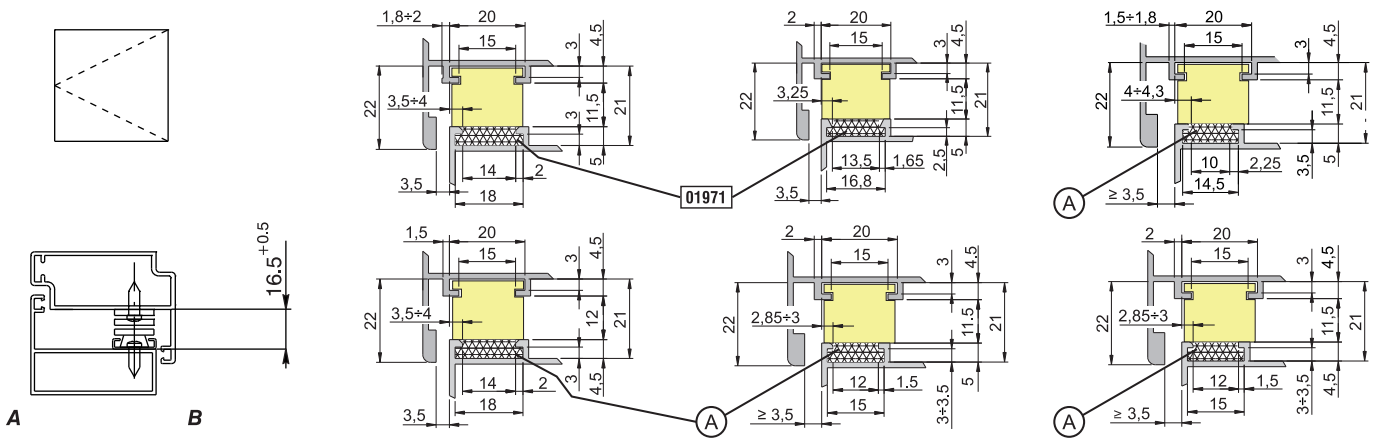
TS-type GS HD arms can be applied to systems with a stack of 16.5 or on European groove systems (Euro groove central gasket). See the figure and table.

Materials

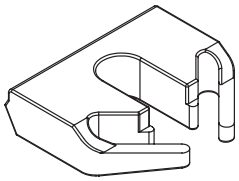
AISI 304 stainless steel arm and grub screw
Slider in 304 grade stainless steel and polyamide



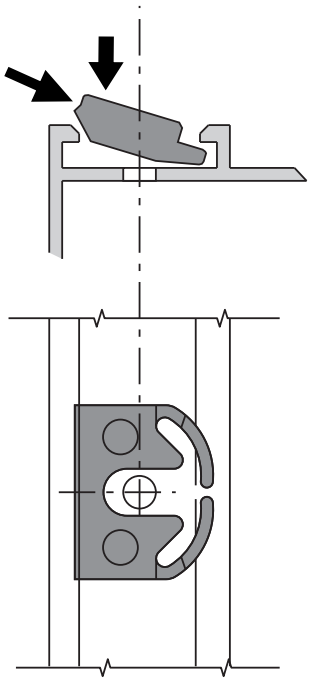
A: shim at the fixing screws by the window maker.



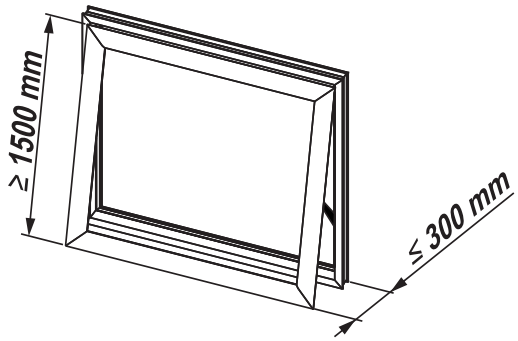
Art. 01971 set of shims



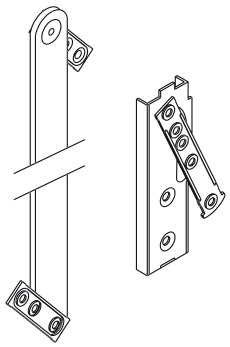
Inserting shim in channel



We recommend using limitation arms in the cases shown below



Item code	Description	PROFILE CROSS - SECTION	Bag width	Stack	Arm length (mm)	Loose rivet	TOP HUNG Opening angle	TOP HUNG Max-imum height (mm)	TOP HUNG Max-imum width (mm)	TOP HUNG Max-imum weight (kg)	SIDE HUNG Possible opening angle	SIDE HUNG Max-imum height (mm)	SIDE HUNG Max-imum width (mm)	SIDE HUNG Max-imum weight (kg)	Base Raw	Items per pack
08340	GS HD - 10" type TS	-	22	16,5	259	No	50°	650	1500	50	50° / 84°	1500	660	35	X	6
08341	GS HD - 10" type TS - L/R	-	22	16,5	259	Yes	50°	650	1500	50	50° / 84°	1500	660	35	X	6
08342	GS HD - 16" type TS	-	22	16,5	412	No	30° 50°	800	1500	100 55	50°/90° 30°	1600	760 700	42 60	X	6
08343	GS HD - 16" type TS - L/R	-	22	16,5	412	Yes	30° 50°	800	1500	100 55	30°/50°/90° 30°	1600	760 700	42 60	X	6
08349	GS HD - 10" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	259	No	50°	650	1500	50	50/84	1500	660	35	X	6
08350	GS HD - 16" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	412	No	30° 50°	800	1500	100 55	30° 50°/90°	1600	700	60 42	X	6
08359	GS HD - 10" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	259	No	50°	650	1500	50	50°/84°	1500	660	35	X	6
08360	GS HD - 16" type TS	C001-C002-C003-C004-C005-C006-C012	22	Euro groove central gasket	412	No	30° 50°	800	1500	100 55	30° 50°/90°	1600	700	60 42	X	6



PROJECTING ARMS WITH HINGE

Functions

The LOTUS self-balanced set is a mechanism used for making top-hung windows.

Online data sheet

Technical Features

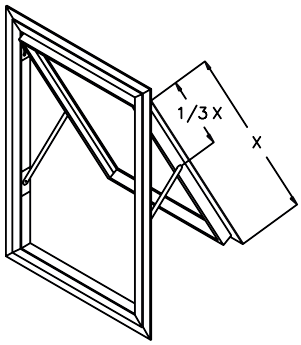
The LOTUS units are composed of a pair of steel hinges and a pair of aluminium arms.
The hinge is formed by a sliding system with constrained pins in order to prevent the sash from accidentally coming out under any circumstances. The hinge is set on the top of the sash and it positions itself on the frame, as it rests there. Both the hinge and the arm are secured with the self-threading screws supplied.

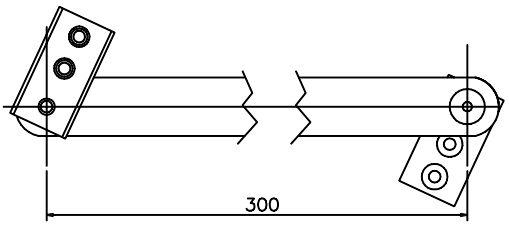
Materials

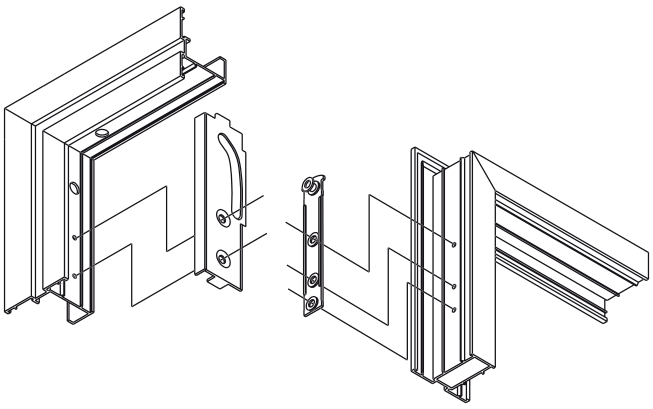
Oxidized aluminium arm rods
Hinge set, arm plates and fixing screws in zinc plated steel

Parts

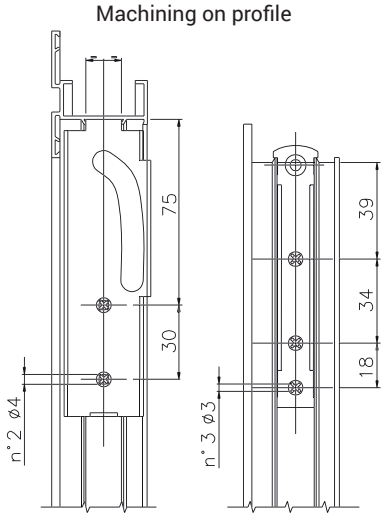
4 Self-tapping screws 4.8x16
14 Self-tapping screws 4.2x13







Machining on profile



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01801	LOTUS SELF-BALANCED UNIT	L= 300 mm		X			10



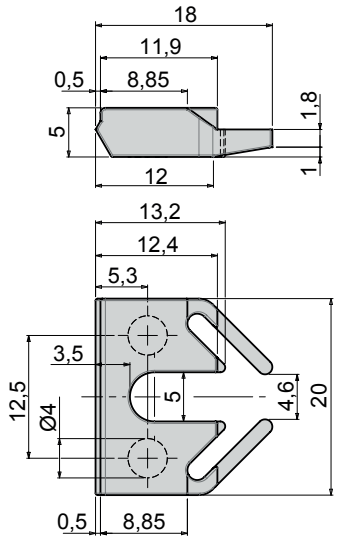
SHIMS FOR PROJECTING ARMS

Functions

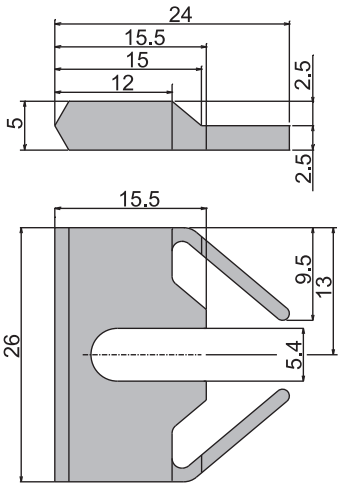
Accessories that allow quick installation and adjustment of the range of projecting arms.

Online data sheet

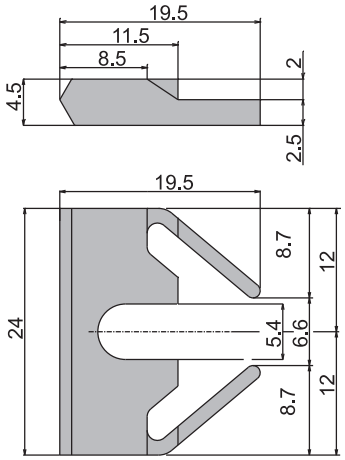
Code 01971



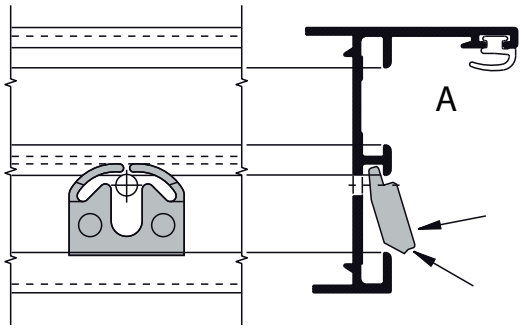
Code 01972

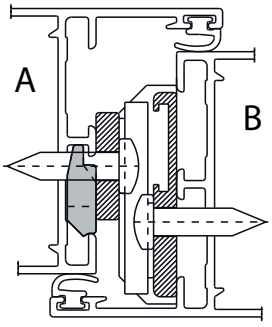


Code 01974



Example of application (A: sash, B: frame)





Item code	Description	PROFILE CROSS - SECTION	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01971	Polyamide filling shim	C001-C004-C013-C015-C016	for 14/18 channel (frame)	X				20
01972	Polyamide filling shim	-	-	X				20
01974	Polyamide filling shim	C001-C002-C003-C004-C005-C006-C010-C012	for 15/20 channel (sash)	X				20

TOP HUNG ARMS ADJUSTMENT DEVICES



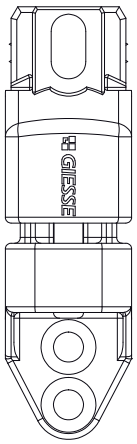
Functions
Pair of height adjustment devices which, if applied to correctly prepared GS HD arms make it possible to adjust a top hung window in height.

Online data sheet

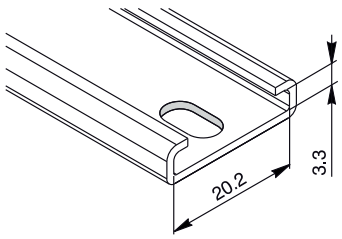
Technical Features
the height-adjustment device has an adjustment range of +/- 2 mm.
Art. 02006K is compatible with the GS HD type P range of arms.

Materials
Silver Plus GS Zamak housing
Stainless steel adjustment and fixing screws

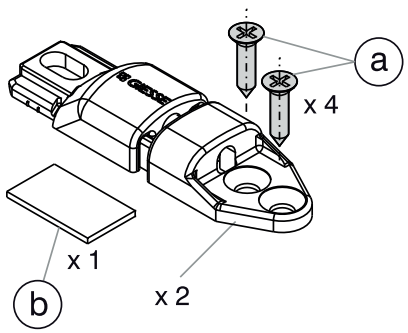
Code 02006



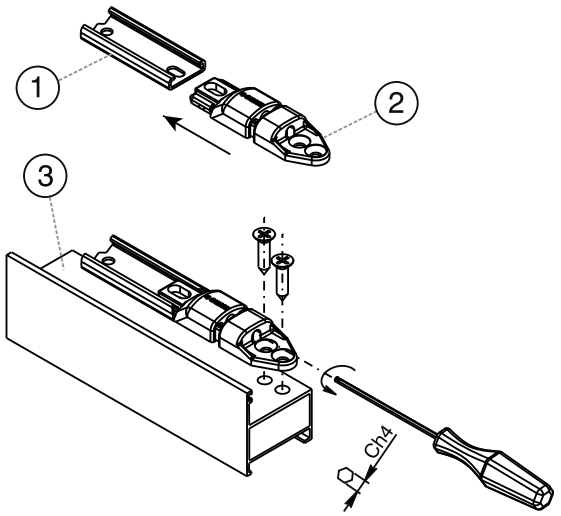
Dimensions, art. 02006



(a) self-tapping countersunk screws 4.8 mm, (b) shim for positioning arm.



1: Top Hung arm; 2: height adjustment component; 3: frame



Item code	Description	Applicable on	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02006K	Arm height adjustment element GS HD - CP (22/23)	GS HD arms Type P	X				12



LASER ARMS

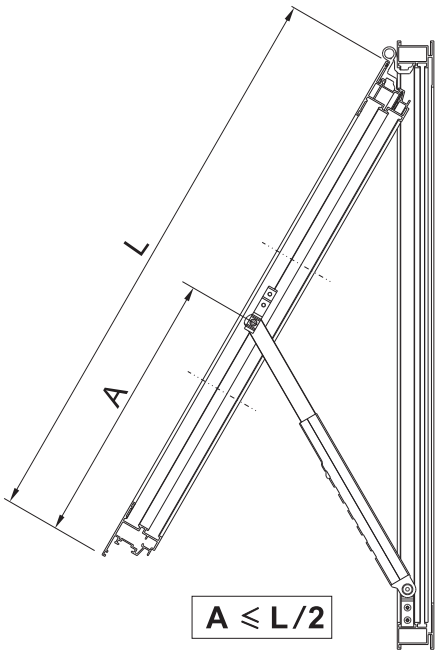
Functions

Pair of telescopic arms (one right and one left) able to limit the opening of a top hung window in different positions.

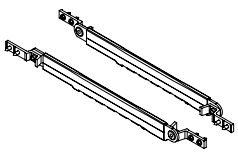
Online data sheet

Technical Features

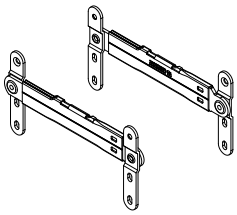
These limitation arms are suitable for top-hung windows.
The Arm is telescopic with 5 clicks (except for art. 01951 that only has 1) that give 5 different window opening positions.
The window is closed by pushing it in the maximum opening position.
The use of these items is intended on top hung windows as they cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.
On request it is possible to have Laser Arms with a lower number of catches (with the same length) and for this we invite you to contact our Giesse Customer Service.
For the details, please see also the table below.



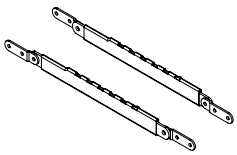
Art. 01950



Art. 01951



Art. 01959



Art. 01956



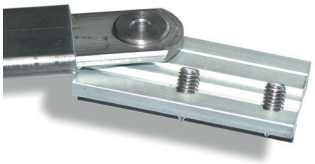
Art. 01960



Part art. 01950, 01952, 01954, 01955



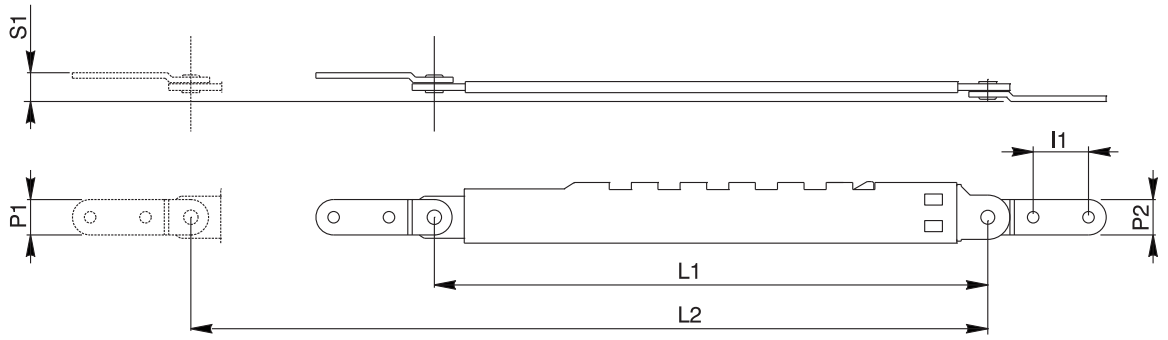
Part art. 01956



Part art. 01960, 01961



ARMS FOR CURTAIN WALL-TOP HUNG-SIDE HUNG WINDOWS



Item code	Description	Permitted type of opening	Applicable in combination with	PROFILE CROSS - SECTION	N positions	Material	Type of Fixing	P1	P2	L1	L2	I1	S1	Base Raw	Items per pack
01950	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	14,8	11,8	250	360	15	28	X	10
01951	LASER ARM	Top	universal	see Where Used	1	AISI 316	Self - threading	16	16	155	186	20,5	13,5	X	6
01952	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	15	15	250	360	15	34	X	10
01954	LASER ARM	Top	hinges	see Where Used	5	AISI 304	Self - threading	13,4	13,4	250	360	15	23	X	10
01955	LASER ARM	Top	hinges	see Where Used	5	Galva-nized steel	Self - threading	13,4	13,4	250	360	15	23	X	10
01956	LASER ARM	Top	hinges	C007	5	AISI 304	Contrast grub-screws	-	-	250	360	-	24	X	10
01959	LASER ARM - Q	Top	universal	Without channels	5	AISI 304	Self - threading	16	16	250	360	23	13	X	6
01960	LASER ARM	Top	universal	Without channels	5	AISI 304	Self - threading	16	16	250	360	20	16,5	X	10
01961	LASER ARM	Top	universal	Without channels	5	Galva-nized steel	Self - threading	16	16	250	360	20	16,5	X	10

LIMITATION ARMS TYPE I



Functions

Pair of reversible limitation arms able to limit the opening of a top hung window.

Online data sheet

Technical Features

Type-I limitation arms are suitable for top-hung windows.
These arms work in combination with GS HD arms type A and P and can be frictioned by turning the knob on the slider.
Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
Note: You are advised to use these products only with top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

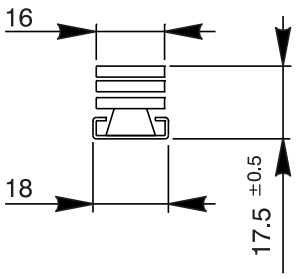
Applicability

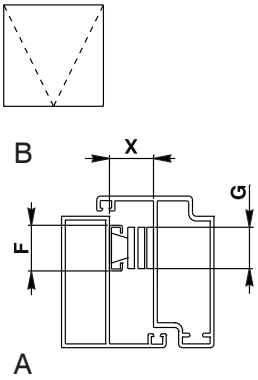
Type-I limitation arms are applicable to sets of profiles with a stack (sash/frame distance) from 15 to 18 mm.

Materials

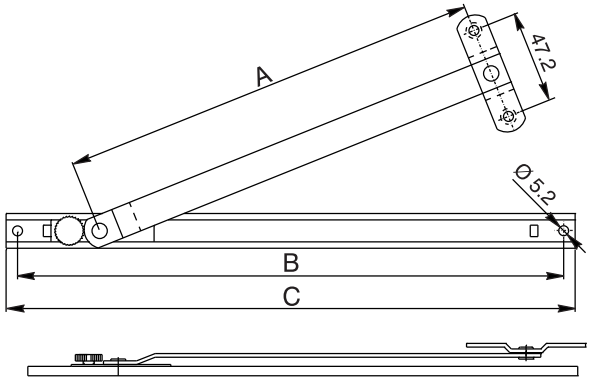
AISI 304 stainless steel limitation arm
Slider in polyamide and brass

Top Hung (A: internal, B: external)

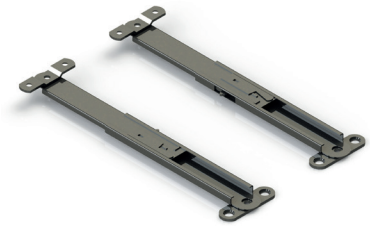




X= 15 mm ÷ 18 mm
F= 18 mm
G= 16 mm



Item code	Description	Permitted type of opening	Bag width	Applicable in combination with Top Hung arms	A	B	C	Base Raw	Items per pack
08123	Limitation arm - 8.5" Type I	Top	18	Type A - Type P	140	205	217	X	6
08124	Limitation arm - 10.5" Type I	Top	18	Type A - Type P	191	256	268	X	6
08177	Limitation arm - 12" Type I	Top	18	Type A - Type P	221	286	298	X	6
08178	Limitation arm - 14" Type I	Top	18	Type A - Type P	267	332	244	X	6
08179	Limitation arm - 16" Type I	Top	18	Type A - Type P	318	388	400	X	6
08183	Limitation arm - 18" Type I	Top	18	Type A - Type P	365	435	447	X	6



LIMITATION ARMS TYPE L

Functions

Pair of telescopic arms (one right and one left) able to limit the opening of a top hung window in one position.

Online data sheet

Technical Features

Type-L limitation arms are suitable for top-hung windows. These arms work in combination with GS HD arms type A and P.
Type-L limitation arms have an opening notch; they can be locked in this position by means of a lever, to prevent the sash from closing. In this way the sash will remain locked until the user puts the lever back to the open position.
Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
Note: You are advised to use these products only with top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

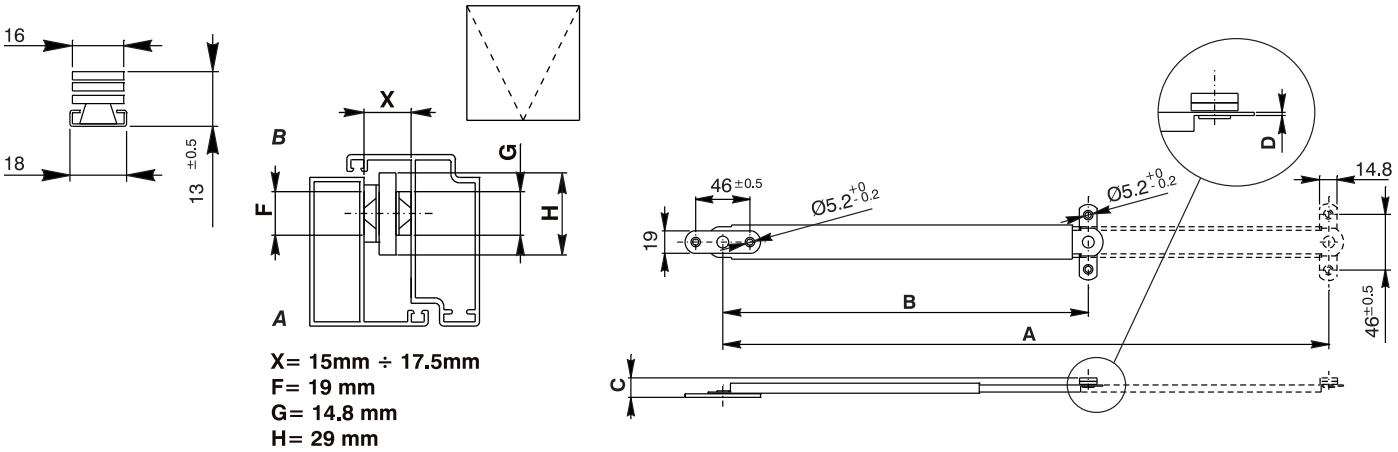
Applicability

Type-I limitation arms are applicable to sets of profiles with a stack (sash/frame distance) of from 15 to 17.5 mm.

Materials

AISI 304 stainless steel limitation arm

Top Hung (A: internal, B: external)



Item code	Description	Permitted type of opening	Applicable in combination with Top Hung arms	no. of notches	A	B	C	D	Base Raw	Items per pack
08184	Limitation arm - 8" Type L	Top	Type A - Type P	1	205	155	16,5	1,2	X	6
08185	Limitation arm - 10" Type L	Top	Type A - Type P	1	255	180	16,5	1,2	X	6
08186	Limitation arm - 12" Type L	Top	Type A - Type P	1	305	205	16,5	1,2	X	6
08187	Limitation arm - 14" Type L	Top	Type A - Type P	1	355	230	16,5	1,2	X	6
08188	Limitation arm - 16" Type L	Top	Type A - Type P	1	406	257	16,5	1,2	X	6
08189	Limitation arm - 20" Type L	Top	Type A - Type P	1	515	310	16,5	1,2	X	6

LIMITATION ARMS TYPE N



Functions

Pair of reversible limitation arms able to limit the opening of a top hung window.

Online data sheet

Technical Features

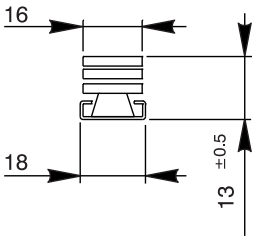
"Type-N" limitation arms are suitable for top-hung windows.
These arms work in combination with GS HD arms type M and can be frictioned by turning the grub screw on the slider. Giesse has tested these limitation arms and obtained a pull resistance greater than 200 kg/pair.
The use of these items is intended only on top hung windows as they are fixed to the profile with self-threading screws and cannot be released and, therefore, with side hung windows, the sash would not be openable to 90° for cleaning.

Applicability

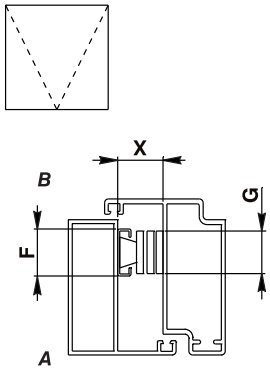
Type-N limitation arms are applicable to sets of profiles with a stack (sash/frame distance) from 15 to 18 mm.

Materials

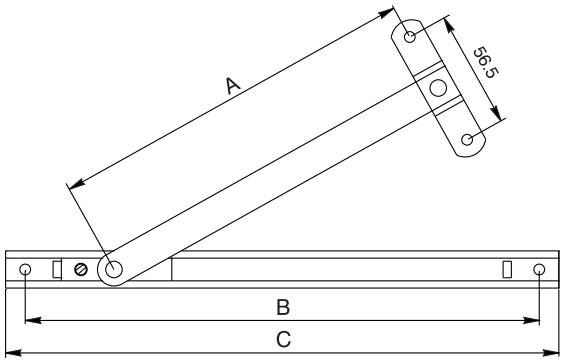
AISI 304 stainless steel limitation arm
Slider in polyamide and brass.



Top Hung (A: internal, B: external)



X= 13 mm ÷ 16mm
F= 18 mm
G= 16 mm



Item code	Description	Permitted type of opening	Bag width	Applicable in combination with Top Hung arms	A	B	C	Base Raw	Items per pack
08199	Limitation arm - 10.5" Type N	Top	23	Type M	180	249	268	X	6
08200	Limitation arm - 16" Type N	Top	23	Type M	314	381	400	X	6



FRIZ ARMS FOR OUTWARD OPENING CASEMENT

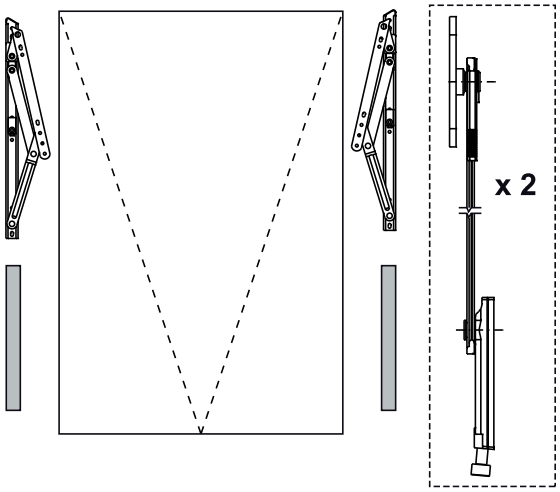
Functions
Arm limiting sash opening on Top and Side Hung casement

Online data sheet

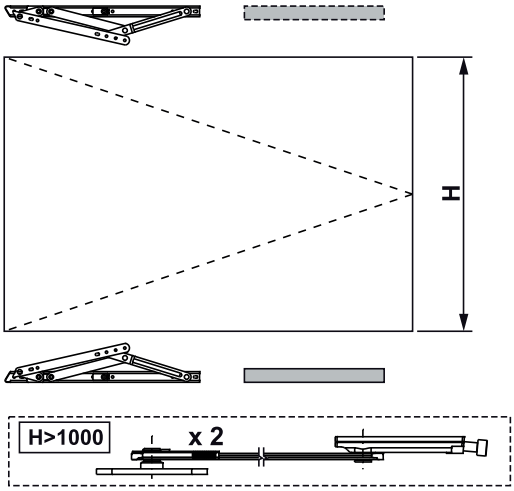
Technical Features
The Friz Arms are applicable on both top and side hung outward opening casement systems with a stack (sash frame distance) of 16.5 mm.
On Top Hung casements we recommend installing an arm on each upright (2 pieces).
You can friction the arm (and then decide on the force required for opening and closing the sash) by turning the screw on the slider.
It is possible to unhook the arm with the aid of the steel mechanism. This enables opening the sash completely for cleaning the glass.
The arm is supplied with a limit stop plate that defines the maximum desired opening of the sash.

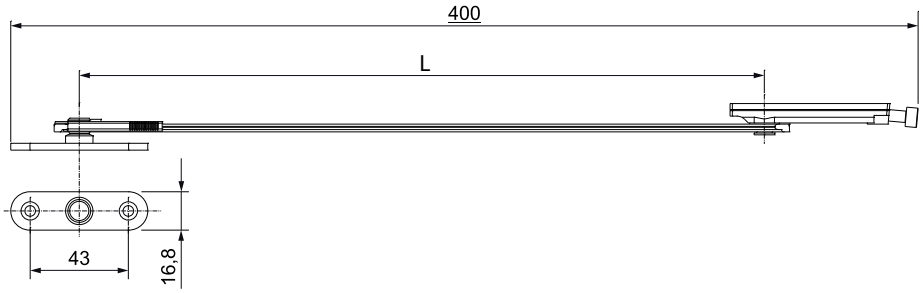
Materials
Extruded aluminium arm
Polyamide frictioning slider
Stainless steel frictioning screw and fixing screws
Frame coupling plate in stainless steel

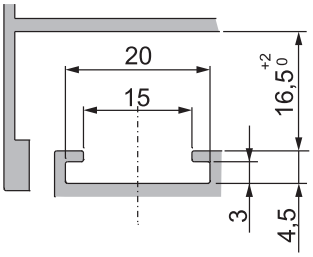
Positioning on top hung casement



Positioning on side hung casement







Item code	Description	Permitted type of opening	Applicable in combination with Top Hung arms	Rod length (L)	Unhookable	Frictionable	Base Raw	Items per pack
02036	Friz Stay Limitation Arm	Top - Side	Type A - Type P - Type C	300 mm	YES	YES	X	10
02037	Friz Stay Limitation Arm	Top - Side	Type A - Type P - Type C	140 mm	YES	YES	X	10

PARALLEL ARMS



Functions

The reversible parallel arms enable opening the sash of a curtain wall or a projecting wall in parallel with the fixed part of the curtain wall.

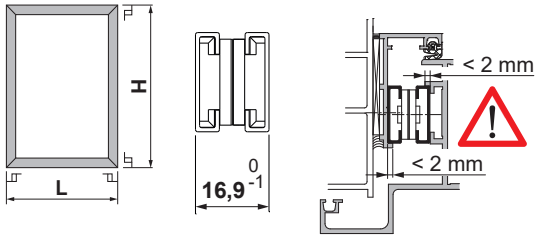
Online data sheet

Technical Features

These arms enable opening the sash outwards, parallel to the frame.
Generally the intended use of these arms is for an operable element in a curtain wall. The added value of this type of solution is its stylishness because the curtain wall no longer "breaks" the reflection of the light but maintains uniformity between the surface of the operable part and the fixed part.
The parallel arms are reversible arms packaged in pairs, that is 2 pcs in the pair are identical and equally applicable on either side of the casement.
They are available in single and double cross versions for the heavier casements of considerable dimensions.
It is possible to combine single-cross arms with double-cross arms when the arm thickness is the same.
For sashes weighing > 60 kg or sized > 1250 x 1250 mm it is required to use a sash opening and closing system that uses motors.
The especially sturdy, durable arm is made entirely of corrosion proof 304 stainless steel.
The window opening can also be frictioned by turning the screws on the sliders.

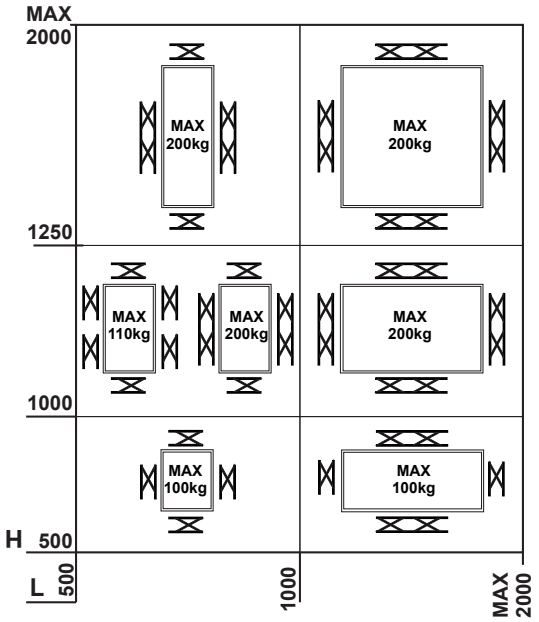
Materials

AISI 304 stainless steel arm
Slider in black polyamide



Weight/automatic or manual fastening mechanism Table

P kg		
110<P<200		x4
60<P<110	x2	x2
P<60 L<1250 mm H<1250 mm	x2	x2



Item code	Description	Permitted type of opening	Bag width (mm)	Arm thickness (mm)	Arm length (mm)	Maximum Opening (mm)	Maximum height (mm)	Maximum width (mm)	Maximum Weight (kg)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0199002	Parallel Arm 16.9	parallel	22	16.9 +0/-1	470	180	1000	1000	100	X				10
0199102	Double Parallel Arm 16.9	parallel	22	16.9 +0/-1	940	180	2000	2000	200	X				5



G-TYPE PARALLEL ARMS

Functions

Reversible parallel arms allow the sash of a curtain wall or external opening to be opened in parallel.

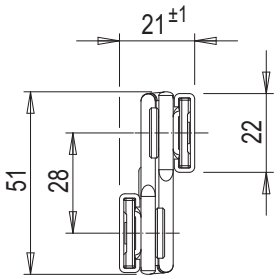
Online data sheet

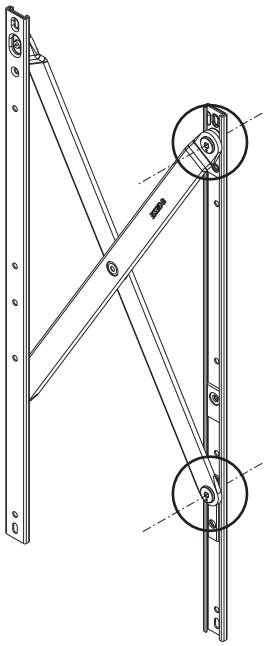
Technical Features

Parallel arms are packaged in pairs of a right-hand and a left-hand one.
These arms enable opening the sash outwards, parallel to the frame.
In general, the intended use of this arm is for an opening within a curtain wall.
The added value of this type of opening is aesthetic, as the curtain wall no longer "breaks" light reflection but maintains uniformity between the surface of the opening and the fixed part.
The particularly strong and durable arms are made of corrosion proof 304 stainless steel.
The products are suitable for application on profile series with a sash-frame distance of 21 mm.
It is possible to obtain a more accurate sash setting and to adjust the compression on the gaskets (± 1 mm) by turning the pins with hexagonal recess located on the arm.
The arms have 2 maximum opening positions (position A and B).
Position A) or B) is selected by fixing the stop plate inside the arm in one of the two holes.
The maximum opening (A or B) selected on the arm can determine a different maximum load capacity (see table).
Depending on the size and weight of the sash, it is possible to combine single cross or double cross arms.

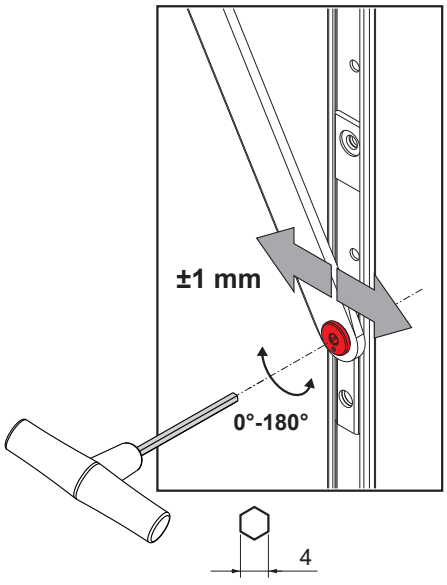
Materials

AISI 304 stainless steel arm

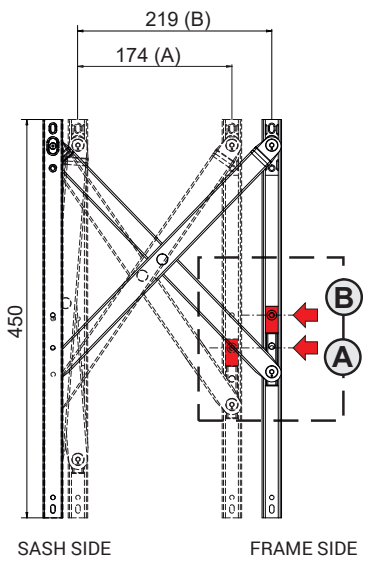




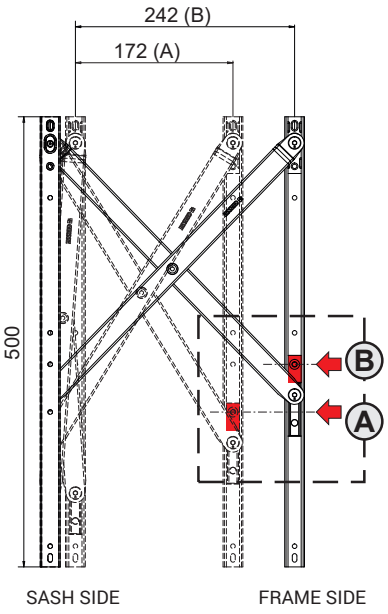
Compression adjustment



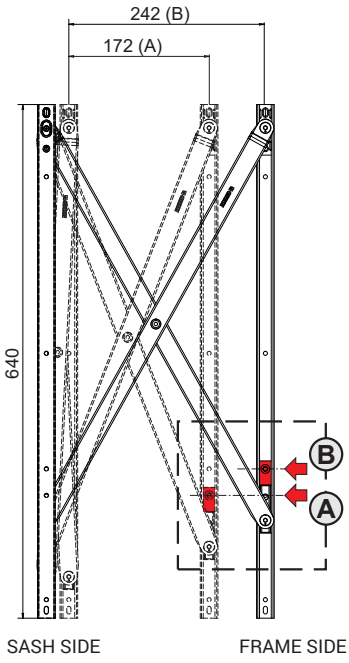
01969001



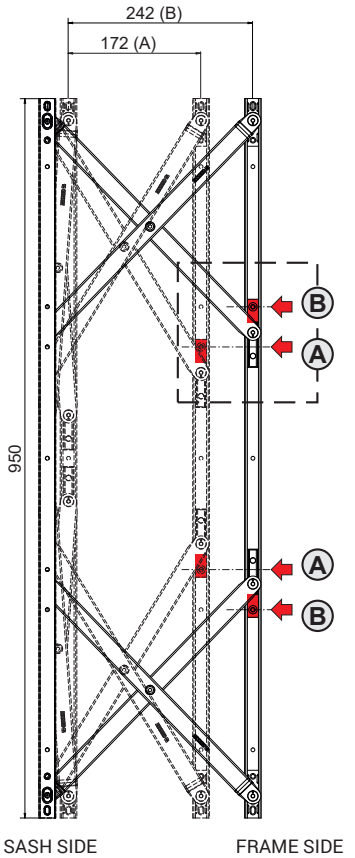
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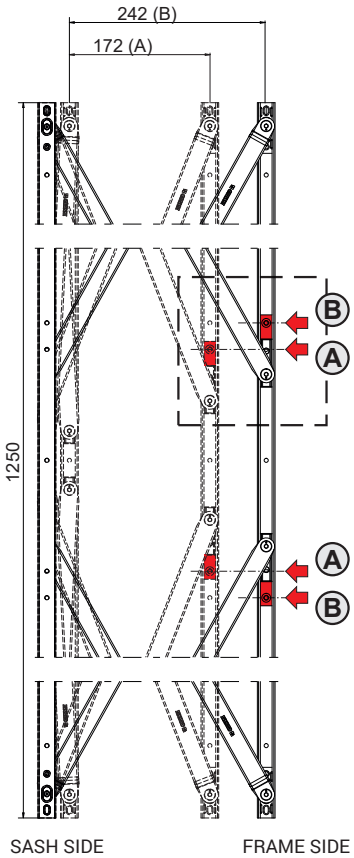
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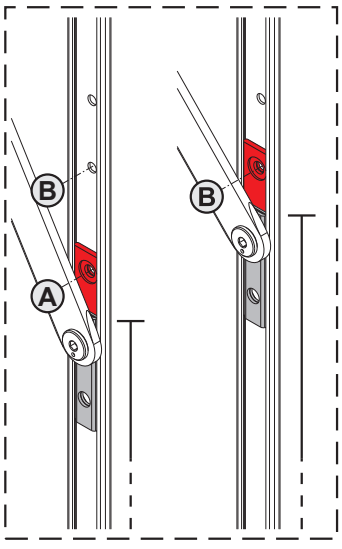
01978001



01979001

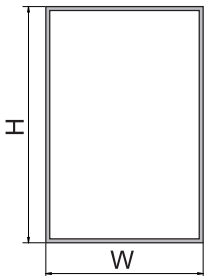


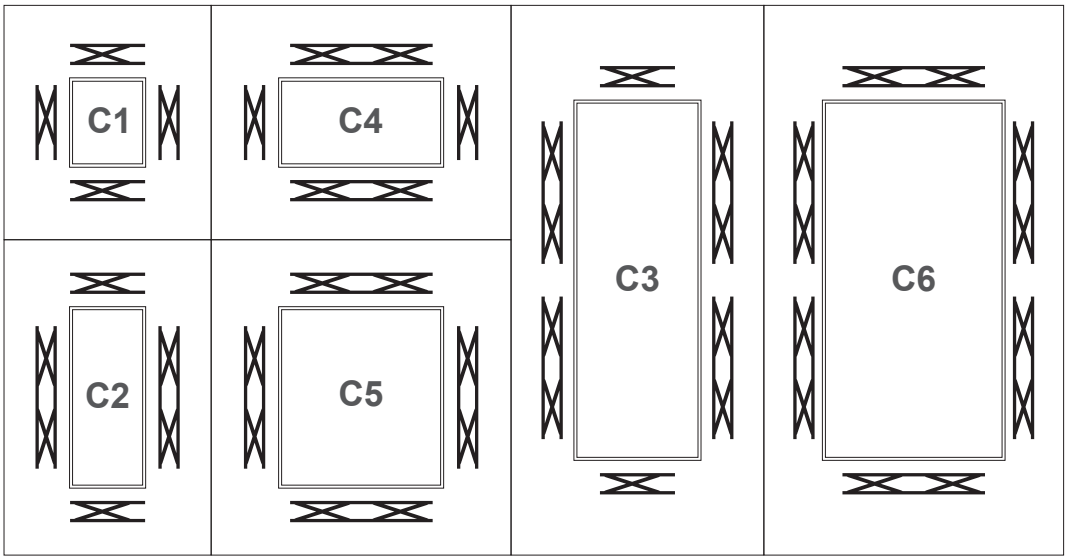
Opening adjustment



ARMS FOR CURTAIN WALL-TOP HUNG-SIDE HUNG WINDOWS

Configuration diagrams





Configurations, dimensions and load capacities

Configura-tion	Description	Manufac-tured with	Min H	Max H	Min W	Max W	Max. weight (A) [kg]	Max. weight (B) [kg]	Manual Opening	Automatic Opening
C1	2 pair of single arms	01969	600	1000	600	1000	55	55	yes	yes
C1	2 pair of single arms	01976	650	1000	650	1000	55	55	yes	yes
C1	2 pair of single arms	01977	800	1200	800	1200	75	75	yes	yes
C2	1 pair of single arms + 1 pair of double arms	01976 + 01978	1100	1500	650	1000	200	170	no	yes
C2	1 pair of single arms + 1 pair of double arms	01977 + 01979	1400	1800	800	1200	200	200	no	yes
C003	1 pair of single arms + 2 pairs of double arms	01976 + 01978 (x2)	2200	3000	650	1000	200	170	no	yes
C003	1 pair of single arms + 2 pairs of double arms	01977 + 01979 (x2)	2800	3600	800	1200	200	200	no	yes
C4	1 pair of single arms + 1 pair of double arms	01976 + 01978	650	1000	1100	2000	55	55	yes	yes
C4	1 pair of single arms + 1 pair of double arms	01977 + 01979	800	1200	1400	2000	75	75	yes	yes
C5	2 pairs of double arms	01978 (x2)	1100	1500	1100	1500	200	170	no	yes
C5	2 pairs of double arms	01979 (x2)	1400	1800	1400	1800	200	200	no	yes
C6	3 pairs of double arms	01978 (x3)	2200	3000	1100	1700	200	170	no	yes
C6	3 pairs of double arms	01979 (x2) + 01978	2800	3600	1100	1700	200	200	no	yes

Item code	Description	Type of opening	Bag width (mm)	Arm thickness (mm)	Arm length (mm)	Maximum Opening A (mm)	Maximum Opening B (mm)	Compression adjustment (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01969001	SINGLE PARALLEL ARM 18"-TYPE G - CP	parallel	22	21 ±1	450	174	219	±1	X				4
01976001	SINGLE PARALLEL ARM 20"-TYPE G - CP	parallel	22	21 ±1	500	172	242	±1	X				4
01977001	SINGLE PARALLEL ARM 25"-TYPE G - CP	parallel	22	21 ±1	640	172	242	±1	X				4
01978001	DOUBLE PARALLEL ARM 39"-TYPE G - CP	parallel	22	21 ±1	950	172	242	±1	X				4
01979001	DOUBLE PARALLEL ARM 50"-TYPE G - CP	parallel	22	21 ±1	1250	172	242	±1	X				4

PROJECTING CLOSING AND LIMITATION ARMS

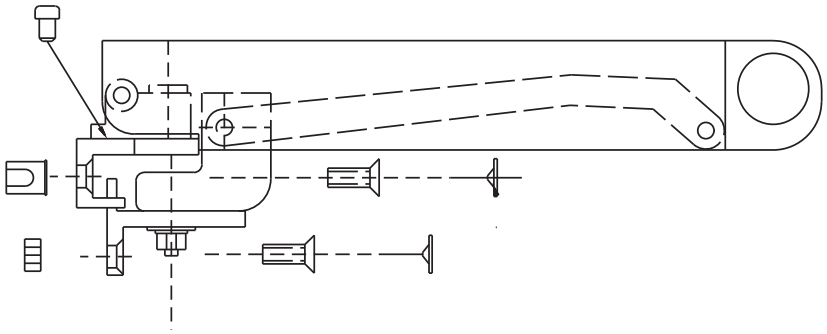


Functions
The Ombu Arm closes and locks open a top-hung window.

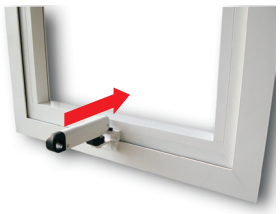
Online data sheet

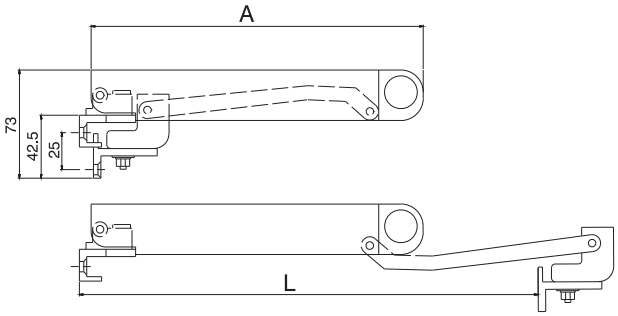
Technical Features
The Ombu Arm is a sturdy, easy to install product that ensures excellent closing for top-hung windows.
With the window closed the Ombu Arm folds back 90° horizontally so that the space it takes up in the room is practically none.
There are 2 different Ombu arm lengths: (see table)
The Ombu Arm can be installed on stepped profiles from 0mm (flush) up to 20 mm, thanks to the adjustment of the plate for fixing to the frame.
The arm can be used on casements with an top-hung opening, in combination with hinges or self-balancing arms, depending both on the weight and size and on the type of use and environment in which it will be moved.

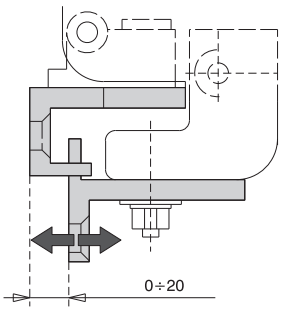
Materials
Steel arm
Black polyamide lever
Zamak frame and sash fixing components





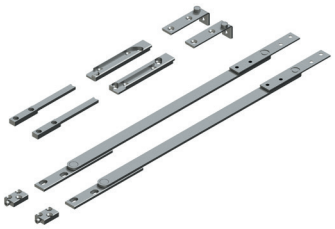








Item code	Description	Length (A)	Opening (L)	Minimum sash width	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00889N	OMBU Arm For Awning	160	172	> = 320			X		10
00890N	OMBU Arm For Awning	224	300	> = 450			X		10



ULK KIT

Functions
Set of components to produce top-hung or bottom-hung windows.

Online data sheet

Technical Features
The Ulk kit has been created to meet the need for Top-Hung and Bottom-Hung openings which have considerable weight and size.
Thanks to the Ulk kit, windows can be manufactured with sashes weighing up to 250 kg with Top-Hung opening and up to 300 kg with external Bottom-Hung opening (smoke vents).
The Ulk kit has been specifically designed for 17 mm door/frame stack systems, which is the sash/frame distance of all the main systems used for curtain walls.
The Ulk kit is composed of several components, all made of stainless steel: a pair of hinges, a pair of arms and a pair of adjustment devices for adjusting the sash height when Ulk is applied on Top-Hung windows.
The Ulk kit is ideal for large openings with sashes of considerable weight, for this reason it is advisable to use suitable automations for opening and closing the sash.
Top-Hung windows can be manually operated if the sash weighs less than 100 kg, but always in combination with limitation arms.
In case of Bottom-Hung openings (smoke vents) the opening must always be automated.
The maximum permitted sash opening in both Top-Hung and Bottom-Hung windows is 300 mm.

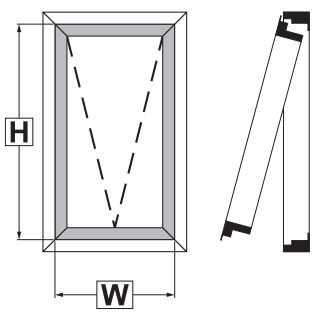
Materials
AISI 304 stainless steel

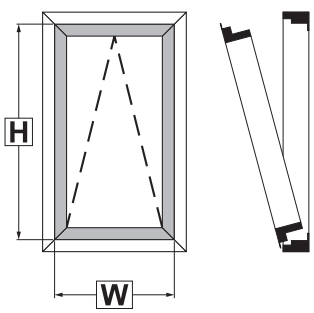
Parts
1 pair of hinges (Right - Left)
1 pair of arms
1 height adjustment device
2 stop elements



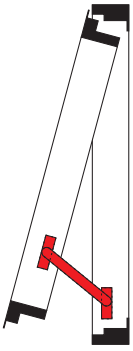
OUTWARD TOP-HUNG	
Manual mode (*)	Load capacity ≤ 100 kg
Motorized	Load capacity ≤ 250 kg
H [mm]	1500 ÷ 3500
W [mm]	≤ 2000

OUTWARD BOTTOM-HUNG	
Manual mode	Not allowed
Motorized	Load capacity ≤ 300 kg
H [mm]	1500 ÷ 4500
W [mm]	≤ 2000



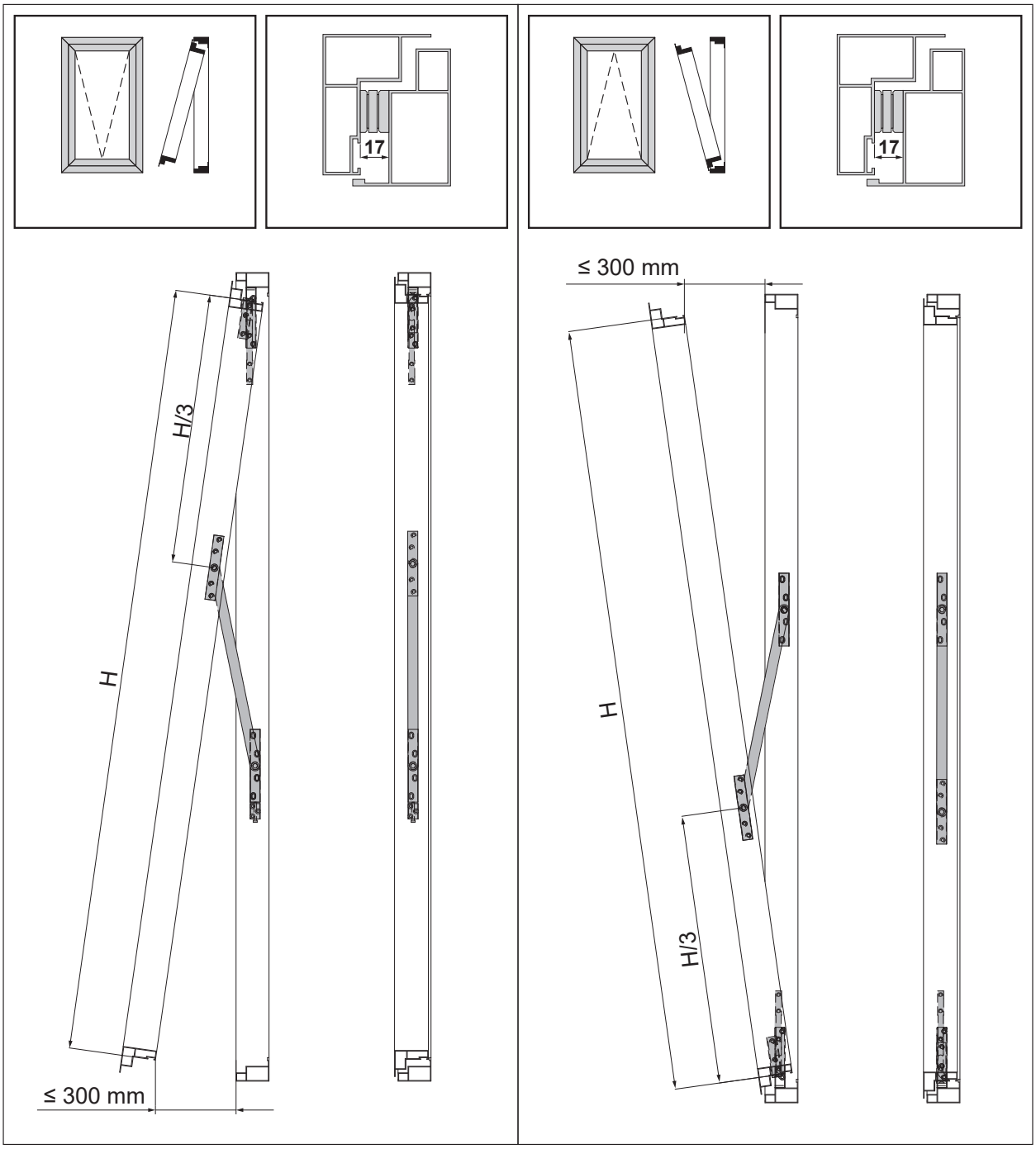


(*) With Manual Opening it is necessary to use opening limitation arms.
For the correct choice of opening limitation arms contact Giesse Technical Service.



OUTWARD TOP-HUNG

OUTWARD BOTTOM-HUNG



Item code	Description	Type of opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
08500	ULK KIT FOR 17 mm STACK	Top - Bottom	X				1



FRIZ ARMS

Functions

Accessory utilised to limit opening of the sash when movement of the sash is restricted by obstacles such as uprights or walls.

Online data sheet

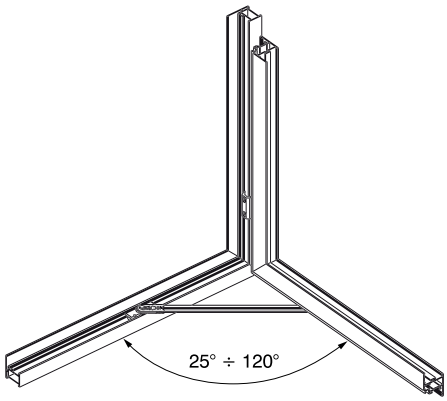
Technical Features

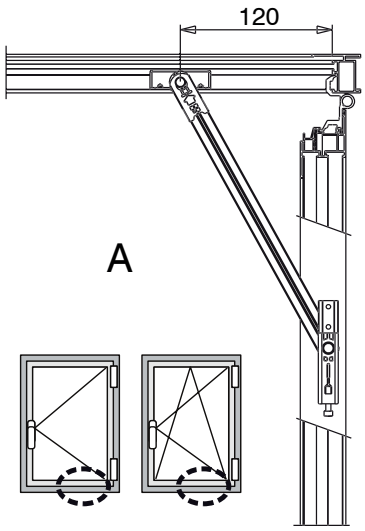
Sliding plate friction adjustable with a screw. Mounts to side-hung and tilt-and-turn casements with minimum dimension L = 450 mm.
As a pair, it may be used as a retainer arm for very heavy bottom-hung windows.
Equipped with a spring-loaded manual quick release.
Stop plate fitted with two grub screws to prevent slippage.

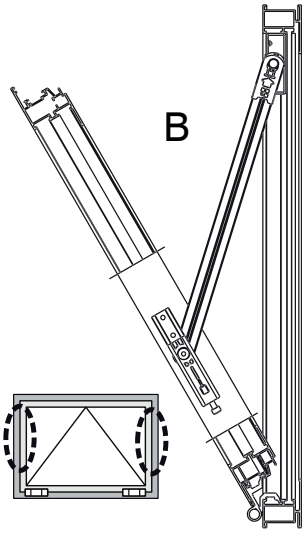
Materials

Fixing plate in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
Rod and stop plate made of pre-oxidised extruded aluminium.
Polyamide frictioning plate
Pins, screws, grub screws and release in stainless steel.

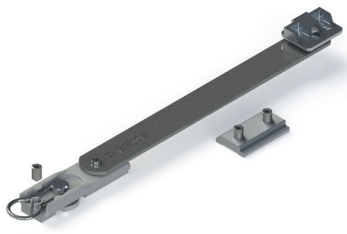
A: opening limiter. B: bottom-hung window.







Item code	Description	PROFILE CROSS - SECTION	Rod length (mm)	Load capacity as opening limiter (kg)	Load capacity as a bottom-hung pair (kg)	Base Raw	Items per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	300	170	130	X	10
02031K	FRIZ STAY LIMITATION ARM	C003-C005-C006	300	170	130	X	10
02034K	FRIZ STAY LIMITATION ARM	C007	300	80	70	X	10
02035	FRIZ STAY LIMITATION ARM	C008	300	80	70	X	10
02800K	FRIZ STAY LIMITATION ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	140	100	130	X	10



LIMITY ARMS

Functions

Accessory utilised to limit opening of the sash when movement of the sash is restricted by obstacles such as uprights or walls.

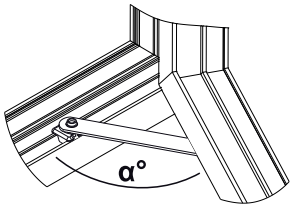
Online data sheet

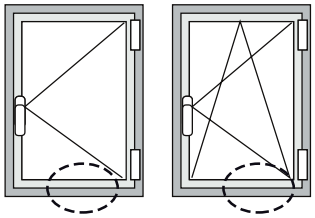
Technical Features

Sliding plate friction adjustable by means of grub screw provided.
Can be fitted to side-hung or tilt-and-turn casements.
Equipped with a spring-loaded manual quick release.
Stop plate fitted with two grub screws to prevent slippage.

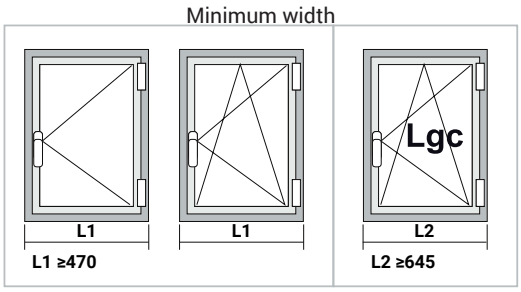
Materials

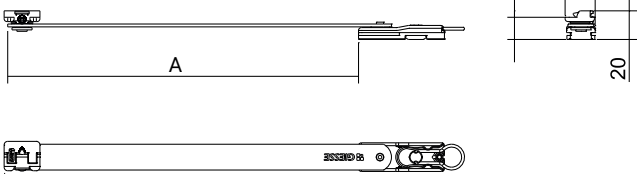
Stainless steel arm
Stainless steel spring lever
Pins, washers and grub screw in stainless steel
GS SILVER PLUS frame coupling cam and frame striker in zamak
Fibreglass reinforced polyamide slider
Extruded aluminium stop plate











Item code	Description	PROFILE CROSS - SECTION	A (mm)	L1 (mm)	L2 (mm)	α°	Load capacity as limiter (kg)	Base Raw	Items per pack
02038	LIMITY ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	250	470	645	120°	80	X	10
02039	LIMITY ARM	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	150	325	500	90°	80	X	10



RALLENTY ARMS

Functions

The arm delimits the opening of a bottom-hung aluminium window slowing its stroke in the stopping phase.
The arm is available in two versions: long 250 mm and short 150 mm.

Online data sheet

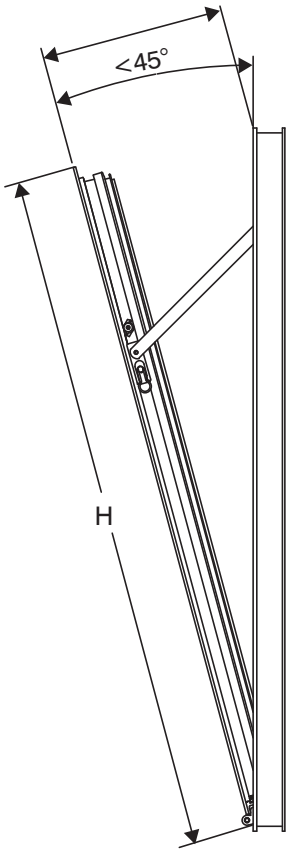
Technical Features

The Rallenty arm slows down the opening of the sash at the limit stop avoiding an annoying and disturbing bang on stopping (Giesse patented system).
Rallenty is fixed completely by clamping, with a single Allen key size 2.5mm, without any machining or holes in the profile.
Installation is done only after completely assembling the casement, without inserting plates or anything else in advance in the channels.
Consequently, it is applied, without any operations, even on existing casements.
Rallenty is released easily from the operable sash side simply with a lever.
The release is so extremely handy as to help when tilting and turning the sash for cleaning the glass from the outside.
With Rallenty the bottom-hung window can be produced without cutting the channels.
The window maker thus avoids standard machining, done as a rule for each sash, reducing the time and therefore the cost of production.
All the materials with which the Rallenty arms are produced are corrosion resistant.
Each item refers to a pair of arms for which we identify the right (RH) and left (LH) for correct application.

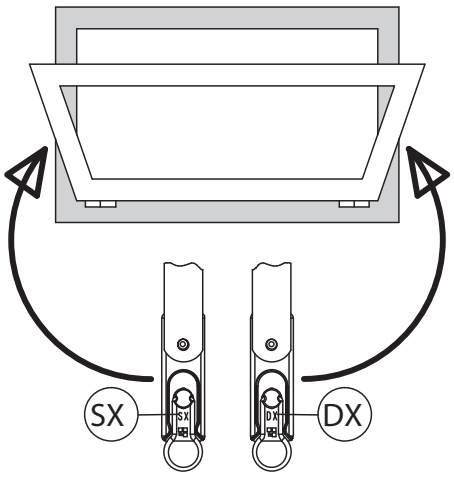
Materials

Stainless steel arm
Stainless steel spring lever
Pins, washers and grub screw in stainless steel
Cams made of GS Silver Plus zamak
Fibreglass reinforced polyamide slider

H= 350÷2000 mm



RH = right
LH = left



Item code	Description	PROFILE CROSS - SECTION	Length (mm)	Load capacity (kg)	Base Raw	Items per pack
02040K	RALLENTY LONG ARM 250 mm	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	250	80	X	10
02041K	RALLENTY SHORT ARM 150 mm	C001-C002-C003-C004-C005-C006-C011-C012-C013-C014-C015-C016-C017	150	50	X	10
02042K	RALLENTY LONG ARM 250 mm	C007	250	70	X	10
02043K	RALLENTY SHORT ARM 150 mm	C007	150	50	X	10
0204401	RALLENTY LONG ARM 250 mm	C008	250	70	X	10
0204501	RALLENTY SHORT ARM 150 mm	C008	150	50	X	10
0204601	RALLENTY LONG ARM 250 mm	C009	250	70	X	10
0204701	RALLENTY SHORT ARM 150 mm	C009	150	50	X	10
0204801	RALLENTY LONG ARM 250 mm	-	250	70	X	10
0204901	RALLENTY SHORT ARM 150 mm	-	150	50	X	10
0205201	RALLENTY LONG ARM 250 mm	C010	250	70	X	10
0205301	RALLENTY SHORT ARM 150 mm	C010	150	50	X	10



LIMITATION ARMS WITH BLOCK

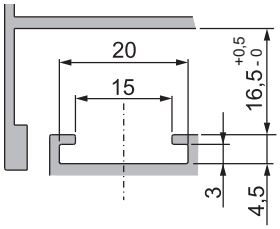
Functions

The limitation arm with block limits the Top-hung or Side-hung sash to a maximum opening position and is able to lock it in that position by movement of the mechanism.

Online data sheet

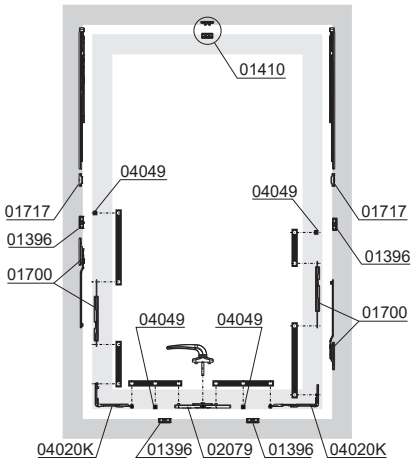
Technical Features

For safety reasons, it is often required that the sash can be locked in its maximum limited opening position. Giesse has devised a new concept of secure outward opening: the closing system, by means of the rotation of the window handle/cremone, is able to keep the sash locked in its maximum limited opening position but, if necessary, it also allows the sash to move to the “fully open” position.
In a Top Hung or Side hung window, by applying 2 limitation arms with block, in combination with other Giesse products, the following opening types can be obtained:
• closed sash and gripped locking points: handle operated at 0°
• sash which can be opened freely up to the maximum limitation position: handle operated at 90°
• sash in maximum locked opening position: handle operated at 0°
• sash which can be opened up to the maximum opening position: operated at 180°
The product is applicable in top-hung systems with stack (sash/frame distance) of 17 mm.



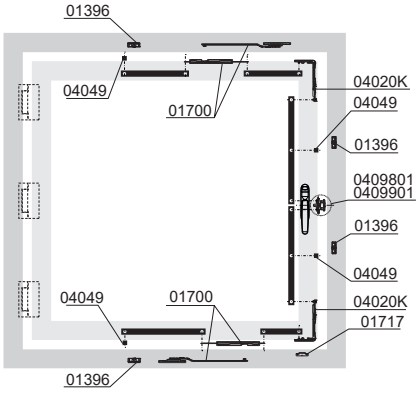
Top-Hung configuration example

Description	Qty	Item code
Limitation arm with lock	2	01700
Ghibo Plus CW1 mechanism	1	02079
Futura corner drive	2	04020K
Fixed pawl	4	04049
Adjustable striker for frame	4	01396
Window handle	1	product selected from the Giesse catalogue
Sash centering and lifting unit	2	01717
Burglar bolt for curtain wall	1	01410



Side-Hung configuration example

Description	Qty	Item code
Limitation arm with lock	2	01700
Rod driving device	1	04098001/04099001
Futura corner drive	2	04020K
Fixed pawl	4	04049
Adjustable striker for frame	4	01396
Unica one-way cremone	1	depends on profile geometry
Sash centering and lifting unit	1	01717



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01700	LIMITATION ARM WITH BLOCK	17 mm stack	X				10

GIESSE
TYMAN group

COMPLETE SYSTEMS FOR HANDLING AND CLOSING



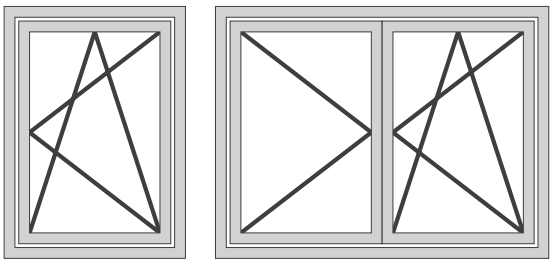
2-STAR SKG - TILT-AND-TURN SYSTEMS

Functions

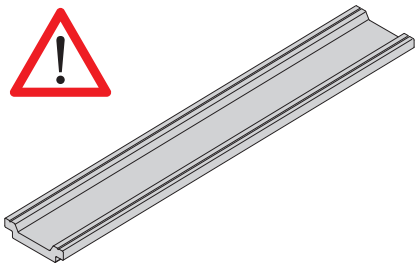
Giesse offers for Tilt-and-Turn windows with a single and double sash, a complete burglar-proof closing system with SKG** certification issued by IKOB SKG (Netherlands).
The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

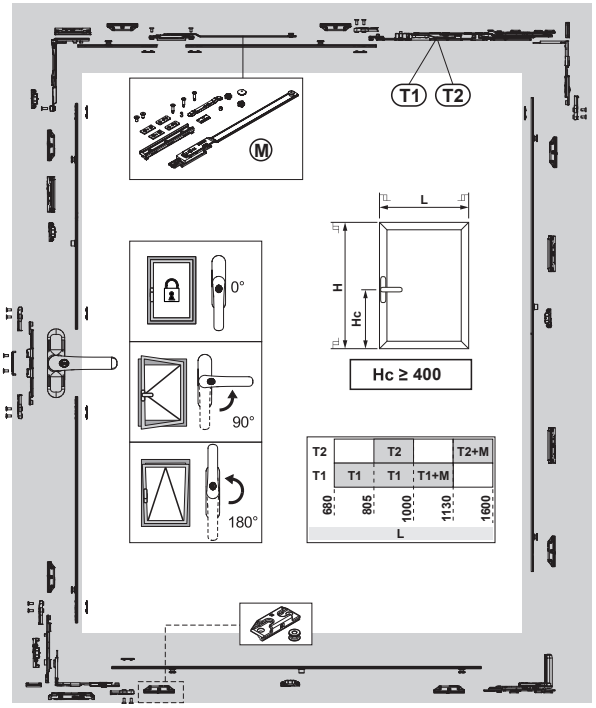
Technical Features

The SKG** system consists of:
• Mechanism - SKG** Cremone with key
• SKG** Tilt-and-Turn mechanism
• Arms and Tilt-and-Turn hinges - CHIC or FUTURA
• SKG** Burglar-proof fastening mechanism components
The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC2 classification in accordance with EN1627.
System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.



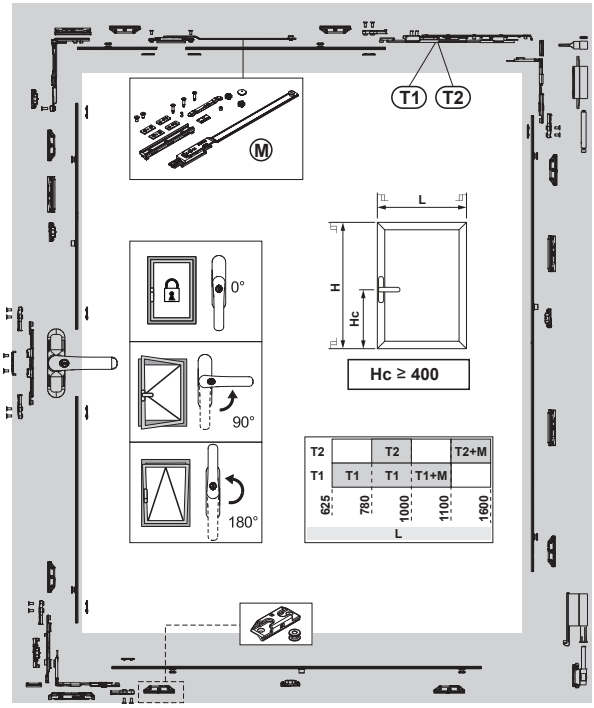
The rods used with the SKG certified closing system must be made using Aluminium.





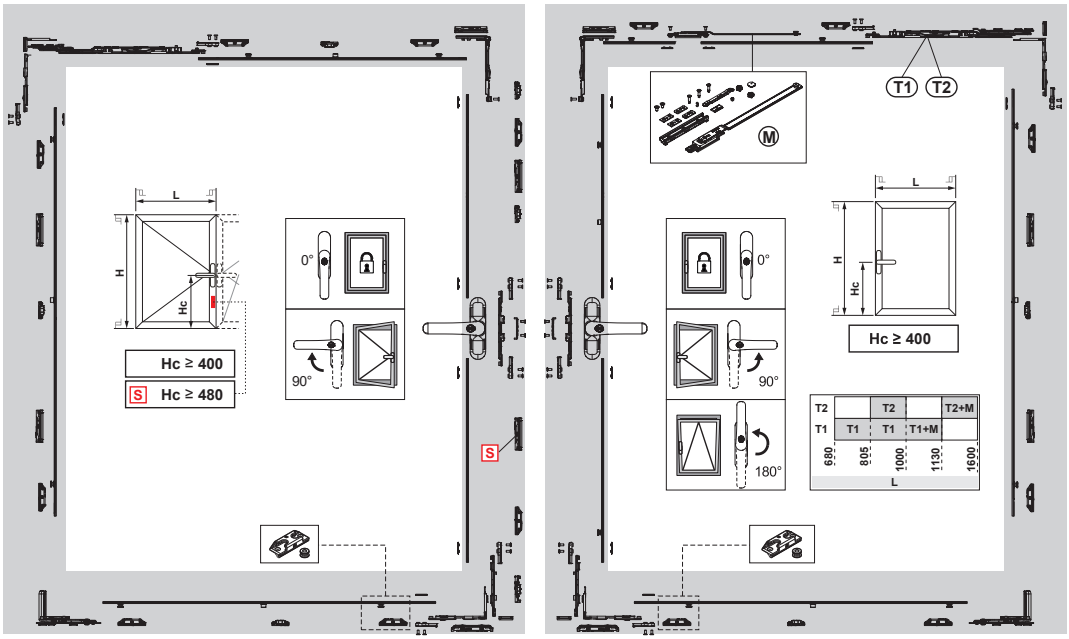
Single CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 -00960	Cremone
1	04007	Tilt-and-Turn window kit
8	04000	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)



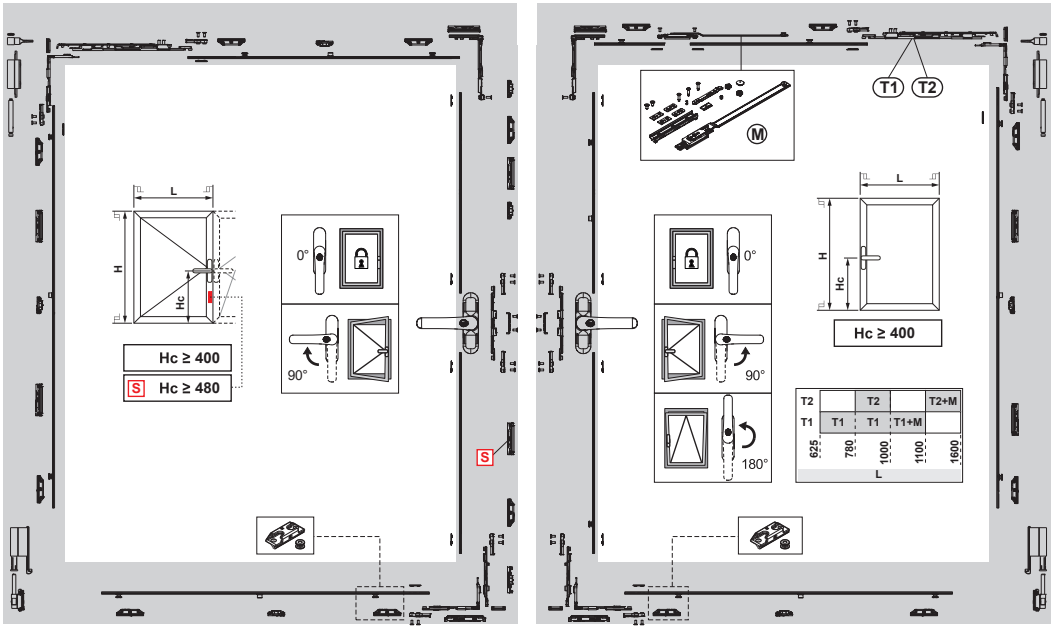
Single FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04007	Tilt-and-Turn window kit
8	04000	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge



Double CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04007	Tilt-and-Turn window kit
14	04000	Burglar-proof fastening mechanism
1	043551/2 + 043561/2	CHIC - Tilt-and-Turn window kit, T1/T2 arm (RH or LH)



Double FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04007	Tilt-and-Turn window kit
14	04000	Burglar-proof fastening mechanism
1	04284 + 04285	T1/T2 arm 130
2	04711	Tilt-and-Turn window hinge



SKG - CREMONES

Functions

Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

Online data sheet

Technical Features

SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

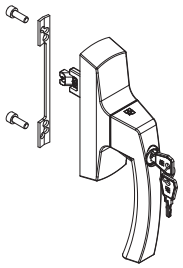
Materials

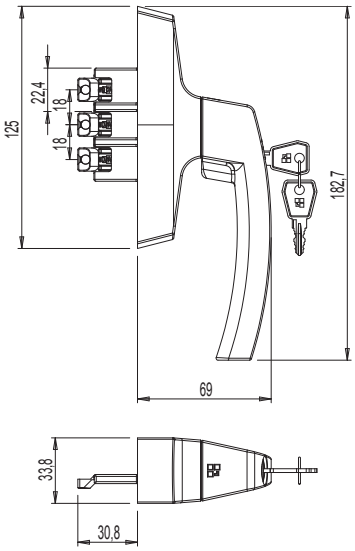
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

Parts

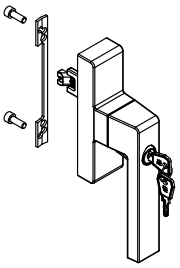
1 fixing plate
2 HSHC screws M5x14

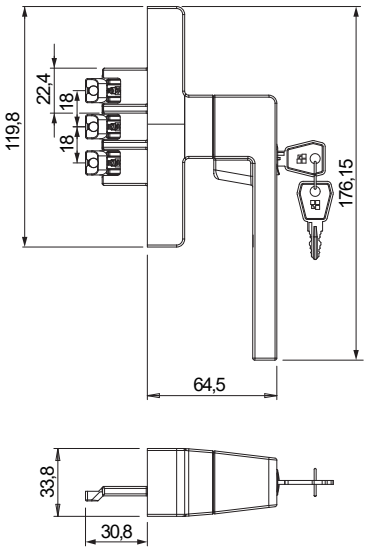
0108501



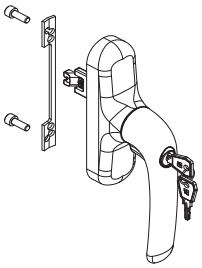


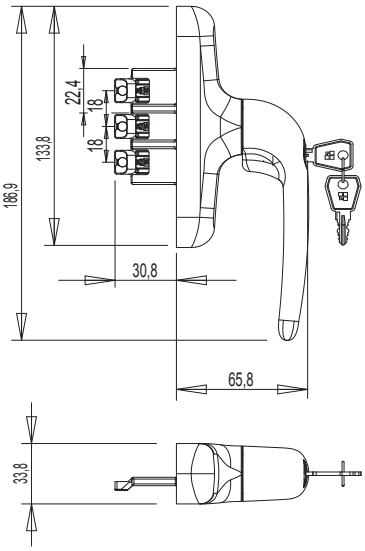
00960



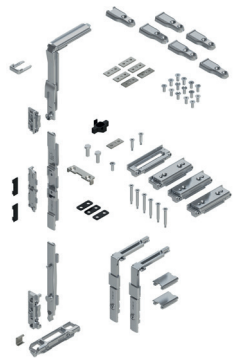


0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5
00960	SKG KORA KEY MICRO CREMONE		X		X		5



SKG - TILT-AND-TURN WINDOW KIT

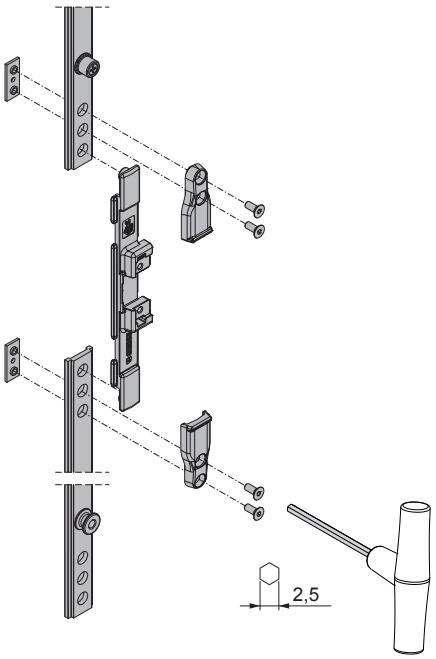
Functions
Tilt-and-Turn fastening mechanism available in standard version.

Online data sheet

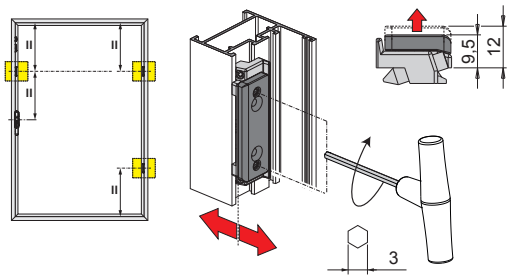
Technical Features
Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

Materials
Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

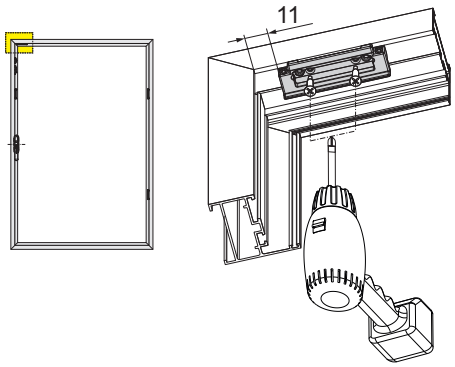
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04007	SKG - TILT-AND-TURN WINDOW KIT		X				5



2-STAR SKG - BURGLAR-PROOF FASTENING MECHANISM

Functions

Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

Online data sheet

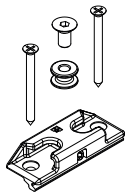
Technical Features

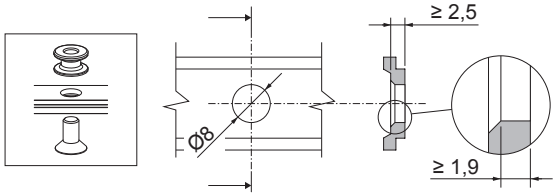
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

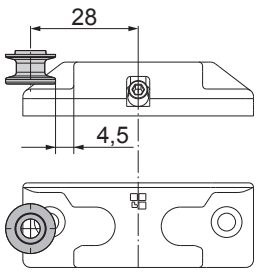
Materials

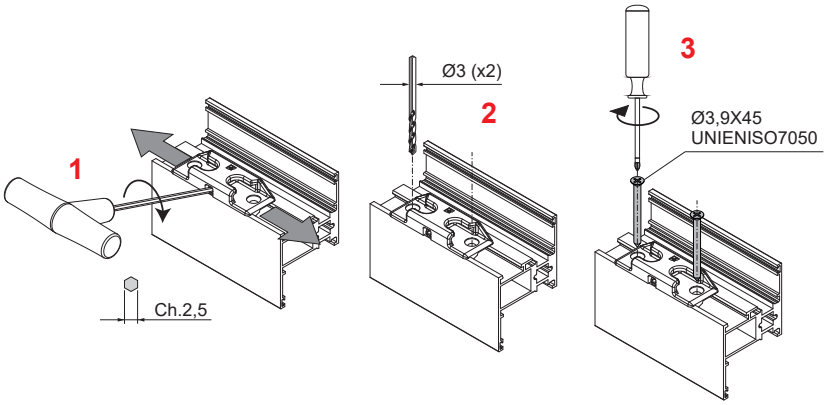
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Pawl and screws in stainless steel.

04000









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04000	2-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20



SKG - ADDITIONAL ARM

Functions

Additional arm for combination with the type 1 or type 2 arm on casements more than 1000 mm wide, installed to distribute the sash opening force during bottom-hung opening.
Specifically reinforced to achieve SKG certification.

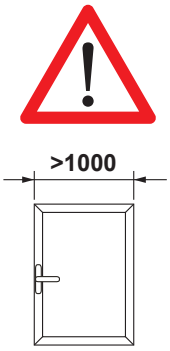
Online data sheet

Technical Features

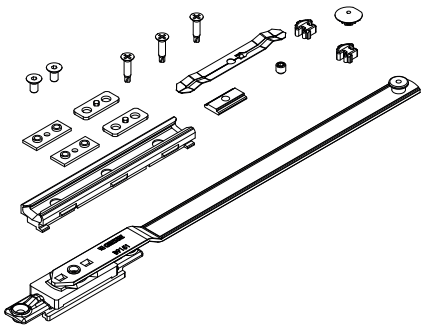
The additional arm is fitted to the cross-beam on opposite side to the arm (drive side) on sashes more than 1000 mm wide to prevent excessive leverage, which might impair operation of the window, during bottom-hung opening.
The arm consists of a component for connection to the corner driver without fixing screws, a rod and a slider which is fixed to the frame using three self-tapping screws provided.
The integral rod fixing utilises specific screws and plates.

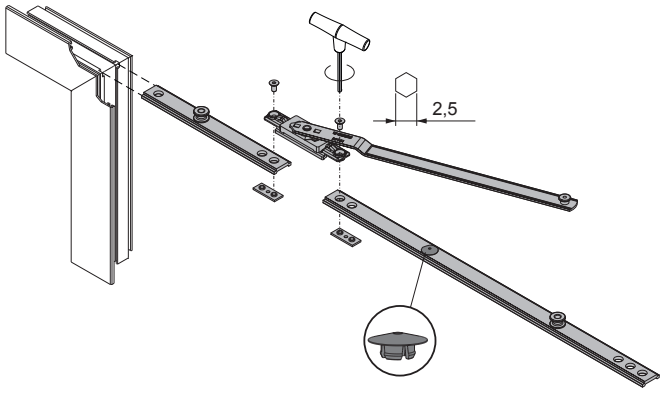
Materials

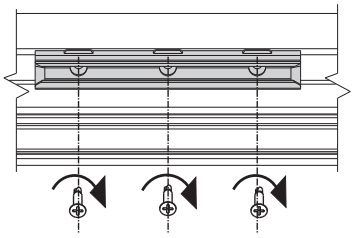
Stainless steel arm
Slider and fixing plug in GS SILVER PLUS zamak
Polyamide shim
Screws and grub screws in stainless steel

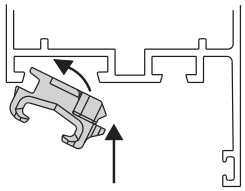


04300

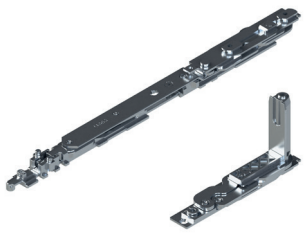








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04300	SKG - ADDITIONAL ARM		X				5



SKG - CHIC 100 TILT-AND-TURN HINGES AND ARMS

Functions

Hinge kit (upper and lower), completely pre-assembled and ready to be installed on the profile.

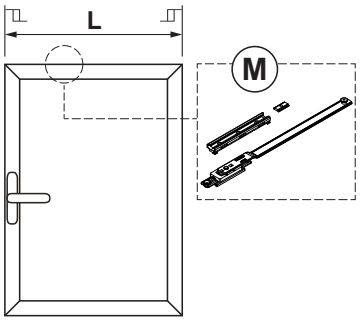
Online data sheet

Technical Features

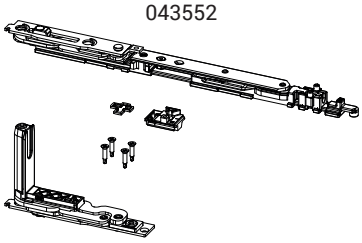
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

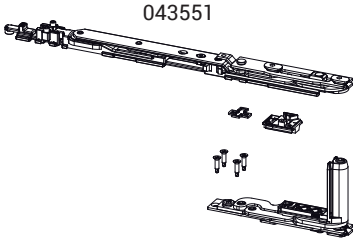
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel



043552

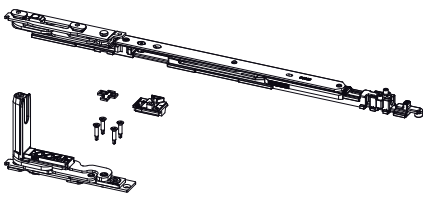


043551

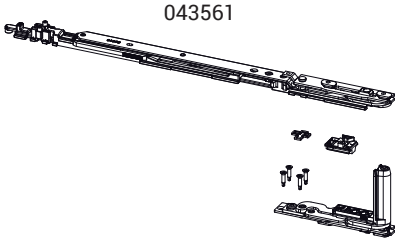


T2		T2		T2+M
T1	T1	T1	T1+M	
680	805	1000	1130	1600
L				

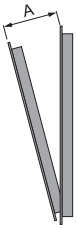
043562



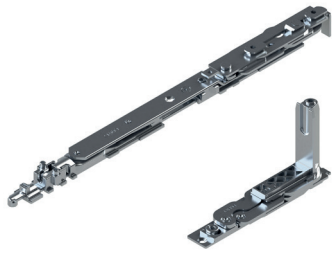
043561



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	LX	X				10



SKG - CHIC 130 TILT-AND-TURN HINGES AND ARMS

Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

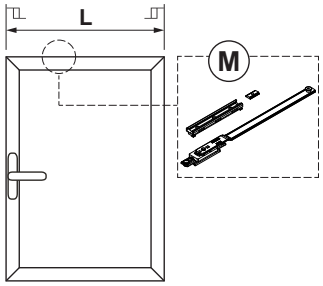
Online data sheet

Technical Features

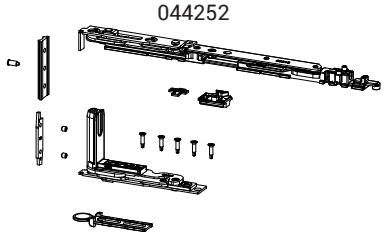
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

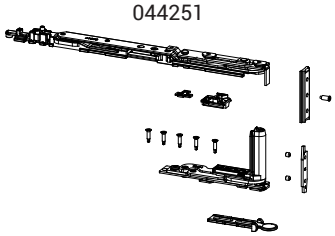
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

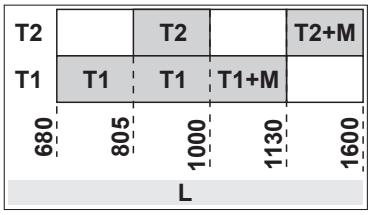


044252

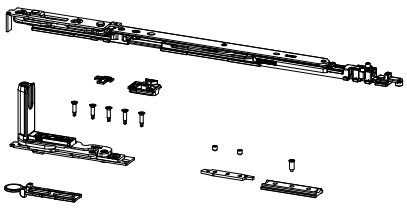


044251

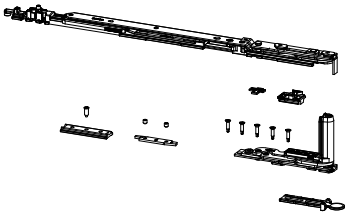




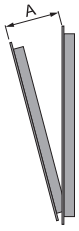
044262



044261



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001	98	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001	98	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001	148÷178	LX	X				10



SKG - FUTURA 3D 130 HINGES AND ARMS

Functions

Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

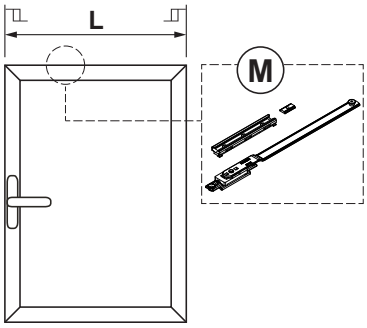
Online data sheet

Technical Features

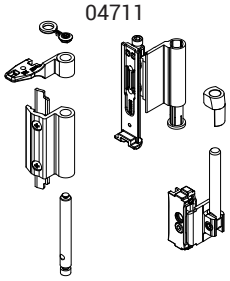
Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

Materials

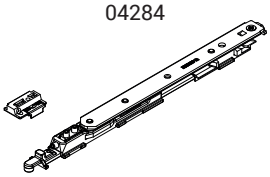
Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide



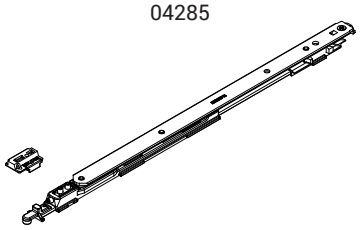
04711

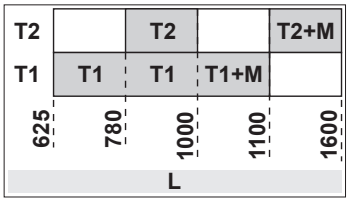


04284

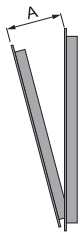


04285





Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C003-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	120					10
04285	ARM T2 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	175					10

2-STAR SKG - SIDE-HUNG SYSTEMS

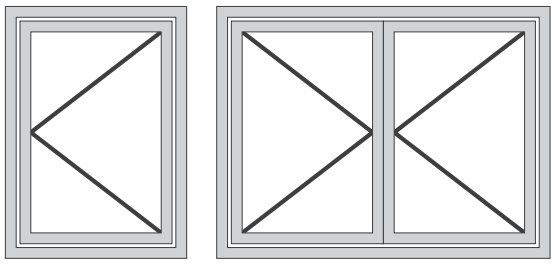
Functions

Giesse offers for single and double sash windows a complete burglar-proof closing system with SKG** certification issued by IKOB SKG (Netherlands). The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

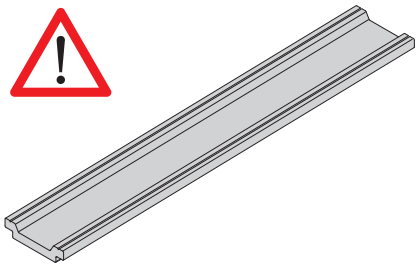
Technical Features

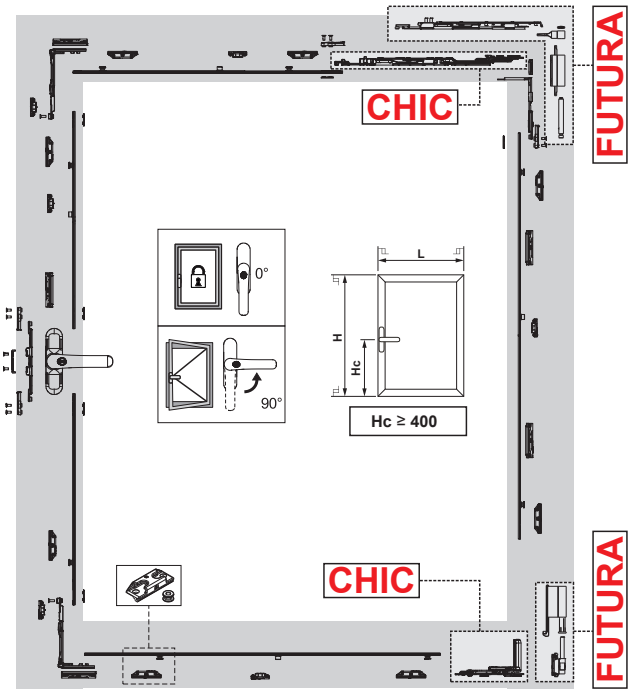
As it is a system which requires locking points on all sides, the tilt-and-turn arms must be used to allow the application of burglar-proof fastening mechanisms to the hinge side.
The SKG** system consists of:
- Mechanism - SKG** Cremone with key
- SKG** Side-Hung mechanism
- Arms and TILT-AND-TURN hinges - CHIC or FUTURA
- SKG** Burglar-proof fastening mechanism components

The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC2 classification in accordance with EN1627. System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.



The rods used with the SKG certified closing system must be made using Aluminium.



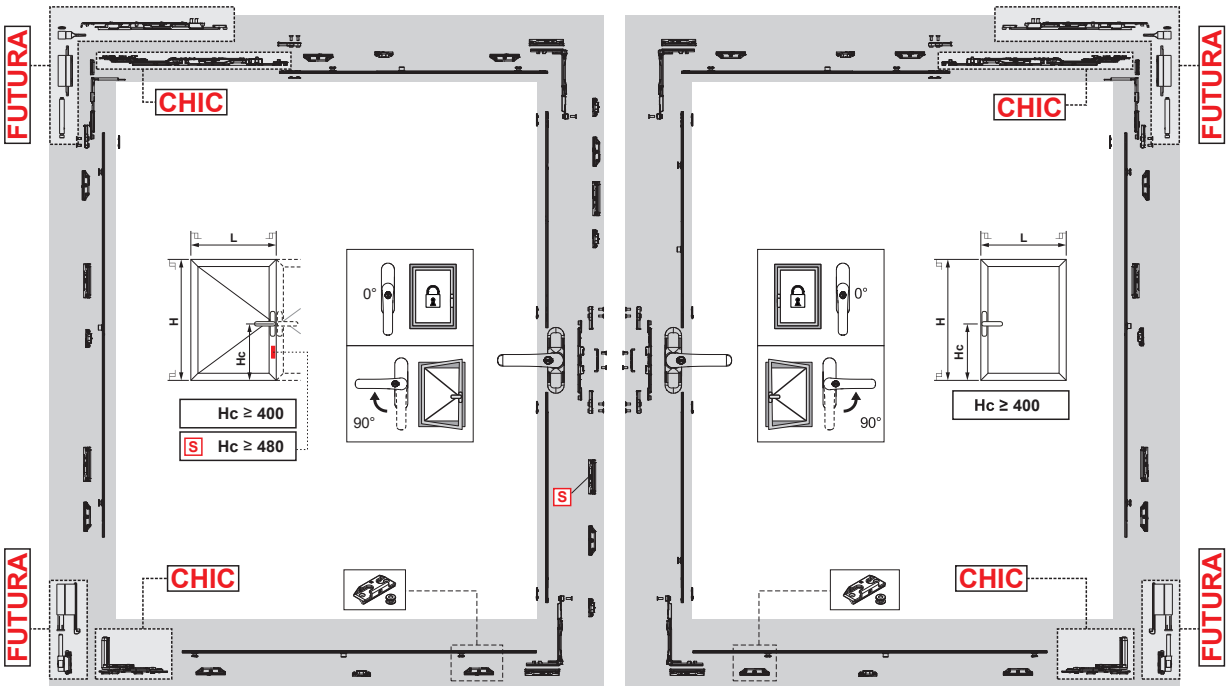


Single CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04005	Side-Hung window kit
8	04000	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)

Single FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04005	Side-Hung window kit
8	04000	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge



Double CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04005	Side-Hung window kit
14	04000	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)

Double FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04005	Side-Hung window kit
14	04000	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge



SKG - CREMONES

Functions

Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

Online data sheet

Technical Features

SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

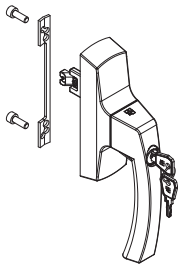
Materials

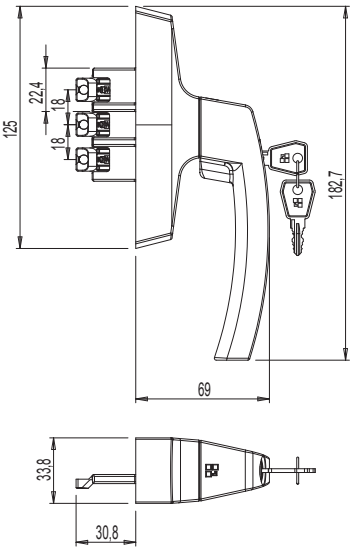
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

Parts

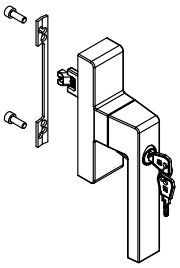
1 fixing plate
2 HSHC screws M5x14

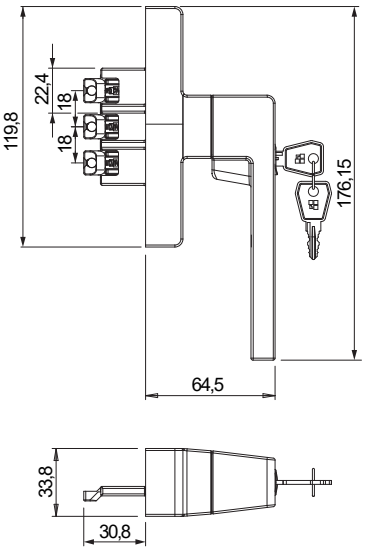
0108501



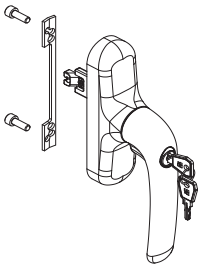


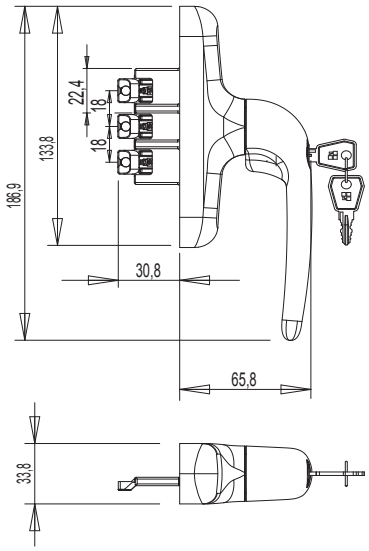
00960



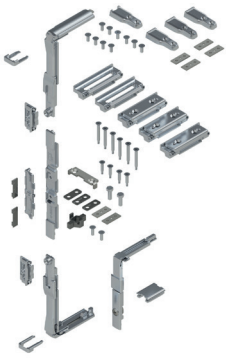


0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5
00960	SKG KORA KEY MICRO CREMONE		X		X		5



SKG - SIDE-HUNG WINDOW KIT

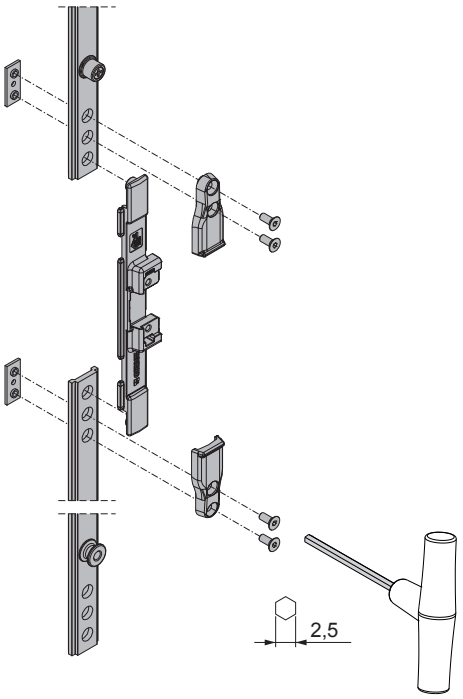
Functions
Side-Hung fastening mechanisms.

Online data sheet

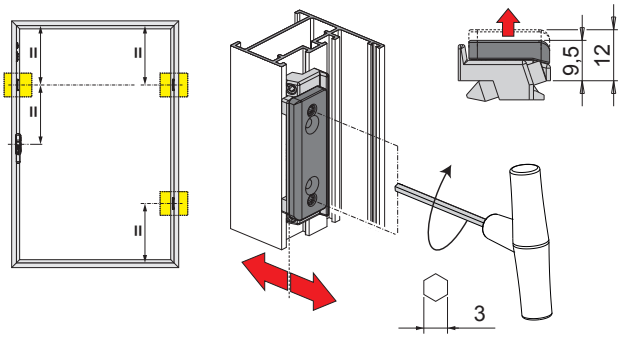
Technical Features
Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

Materials
Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

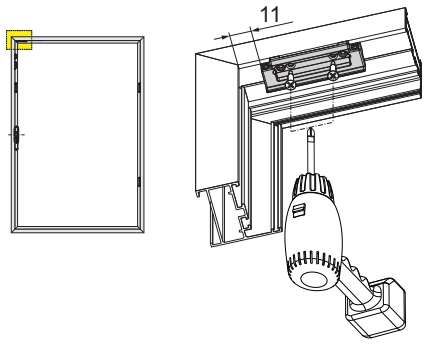
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04005	SKG - SIDE-HUNG KIT		X				5



2-STAR SKG - BURGLAR-PROOF FASTENING MECHANISM

Functions

Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

Online data sheet

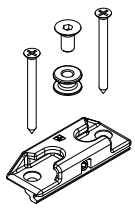
Technical Features

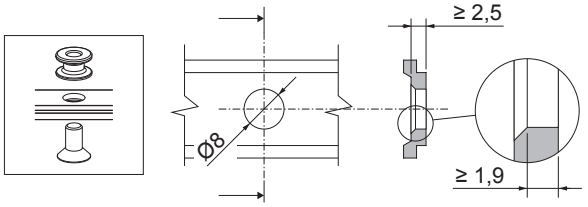
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the pre-assembled grub screw and two self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

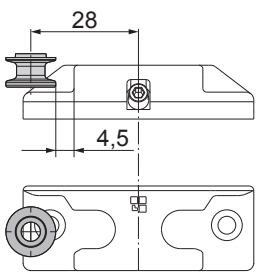
Materials

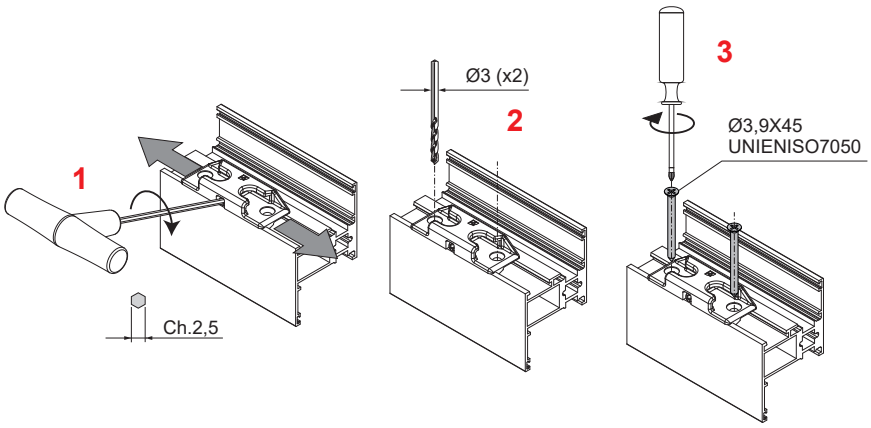
Striker in zamak with GS SILVER PLUS finish (over 500 hours of corrosion resistance)
Pawl and screws in stainless steel.

04000

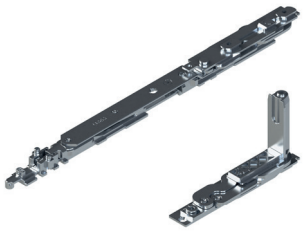








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04000	2-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20



SKG - CHIC 100 SIDE-HUNG HINGES AND ARMS

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

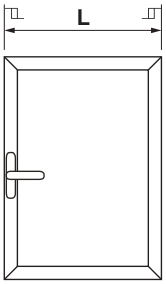
Online data sheet

Technical Features

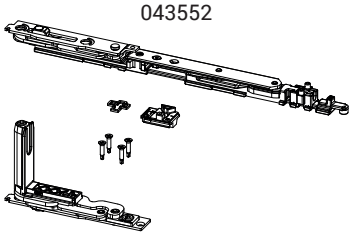
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

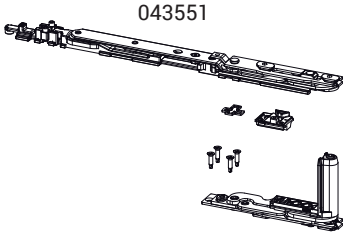
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

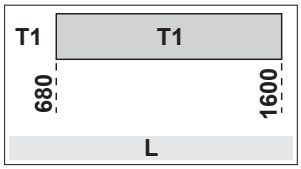


043552

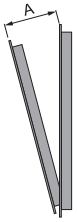


043551

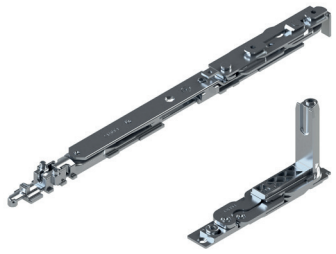




Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	LX	X				10



SKG - CHIC 130 SIDE-HUNG HINGES AND ARMS

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

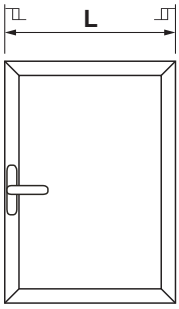
Online data sheet

Technical Features

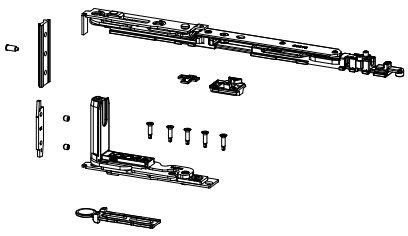
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

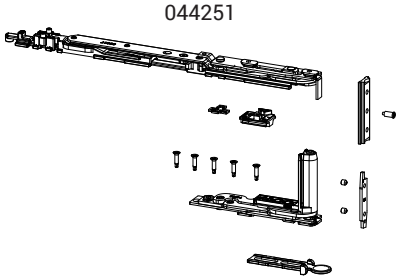
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

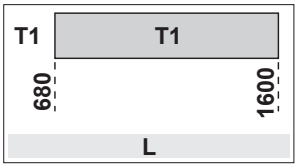


044252

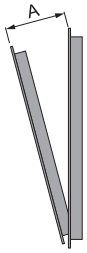


044251





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001	98	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001	98	LX	X				10



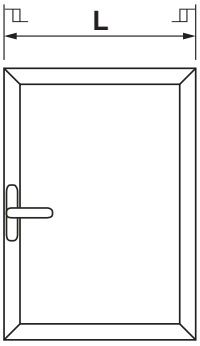
SKG - FUTURA 3D 130 HINGES AND ARMS

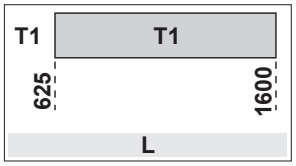
Functions
Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

Online data sheet

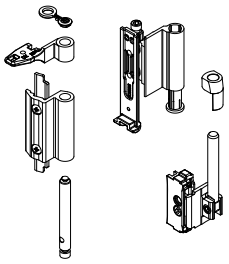
Technical Features
Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

Materials
Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

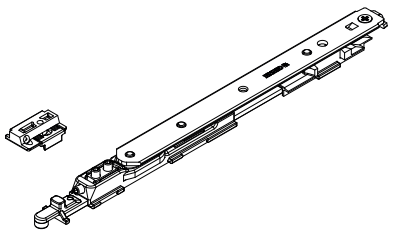




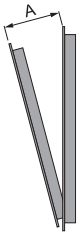
04711



04284



Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C003-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	120					10

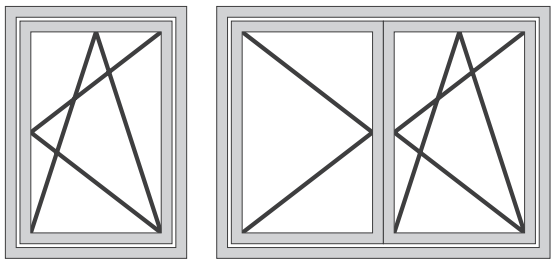
3-STAR SKG - TILT-AND-TURN SYSTEMS

Functions

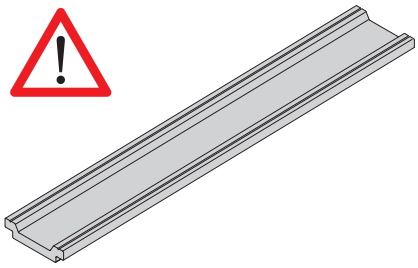
Giesse offers for Tilt-and-Turn windows with a single and double sash, a complete burglar-proof closing system with SKG*** certification issued by IKOB SKG (Netherlands).
The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

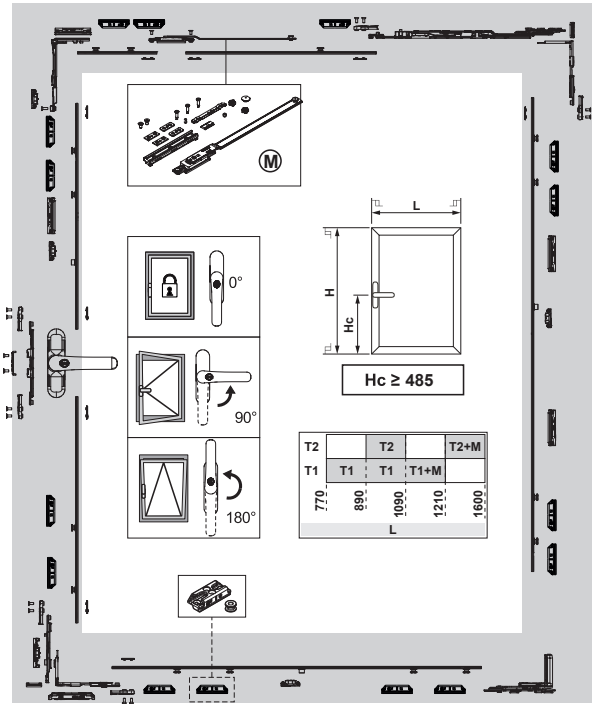
Technical Features

The SKG*** system consists of:
• Mechanism - SKG*** Cremone with key
• SKG*** Tilt-and-Turn mechanism
• Arms and Tilt-and-Turn hinges - CHIC or FUTURA
• SKG*** Burglar-proof fastening mechanism components
The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC3 classification in accordance with EN1627. System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.



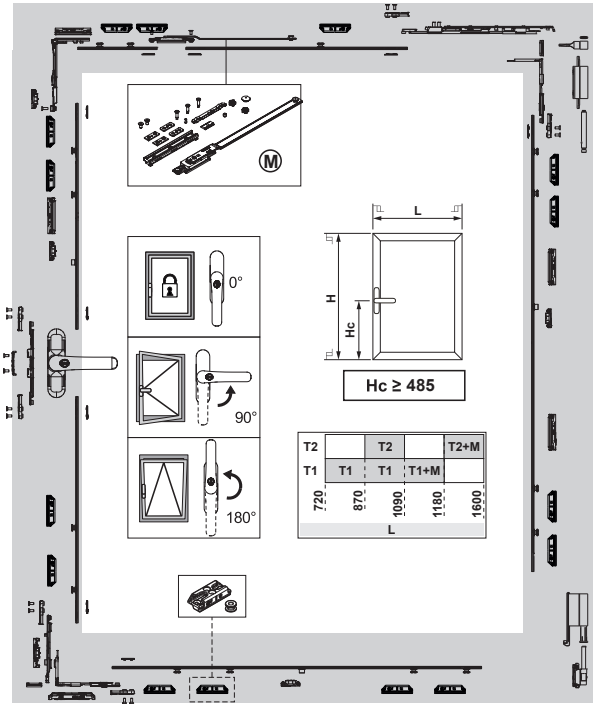
The rods used with the SKG certified closing system must be made using Aluminium.





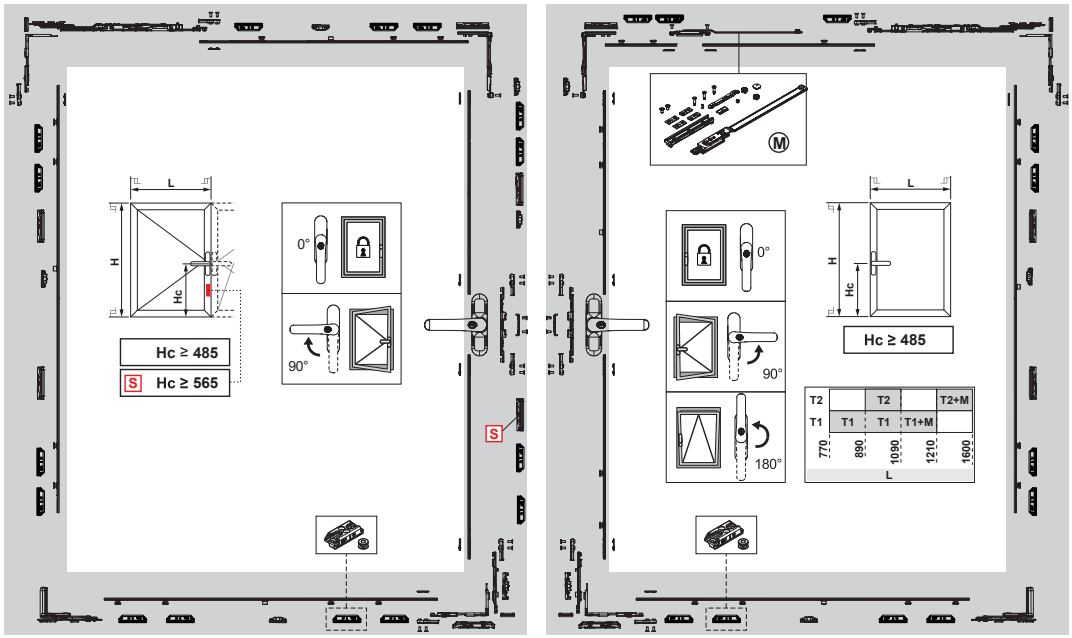
Single CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04007	Tilt-and-Turn window kit
15	04009	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device



Single FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04007	Tilt-and-Turn window kit
15	04009	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device



Double CHIC tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04007	Tilt-and-Turn window kit
26	04009	Burglar-proof fastening mechanism
1	043551/2 + 043561/2	CHIC - Tilt-and-Turn window kit, T1/T2 arm (RH or LH)
1	04107	Incorrect movement safety device



Double FUTURA tilt-and-turn window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04007	Tilt-and-Turn window kit
26	04009	Burglar-proof fastening mechanism
1	04284 + 04285	T1/T2 arm 130
2	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device



SKG - CREMONES

Functions

Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

Online data sheet

Technical Features

SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

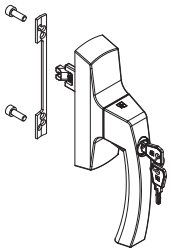
Materials

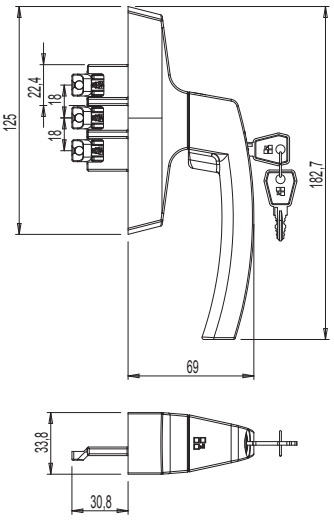
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

Parts

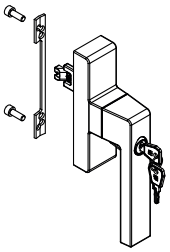
1 fixing plate
2 HSHC screws M5x14

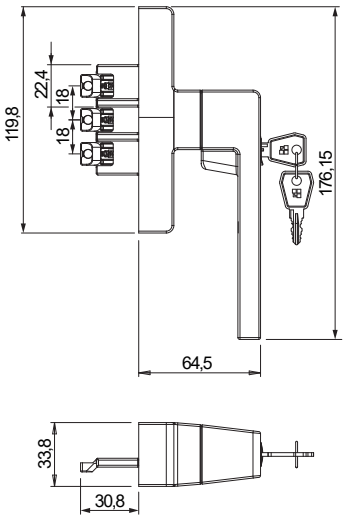
0108501



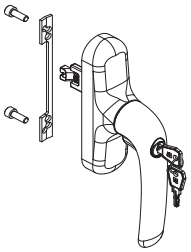


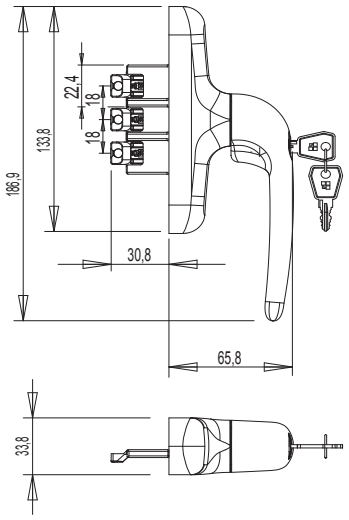
00960



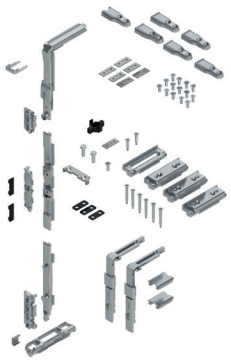


0119102





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5
00960	SKG KORA KEY MICRO CREMONE		X		X		5



SKG - TILT-AND-TURN WINDOW KIT

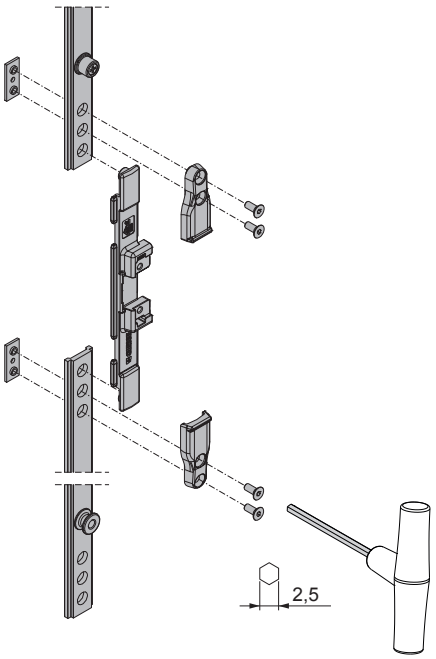
Functions
Tilt-and-Turn fastening mechanism available in standard version.

Online data sheet

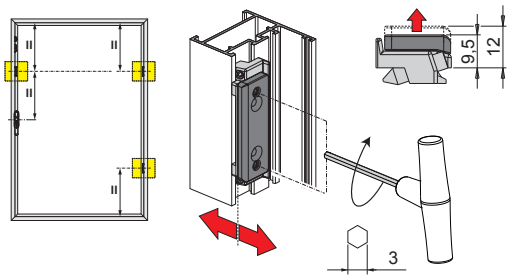
Technical Features
Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

Materials
Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

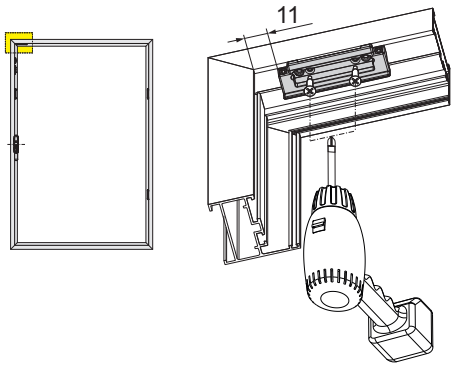
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04007	SKG - TILT-AND-TURN WINDOW KIT		X				5



3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM

Functions

Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

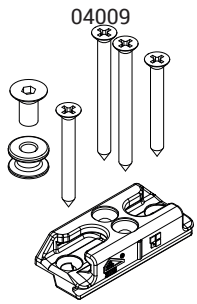
Online data sheet

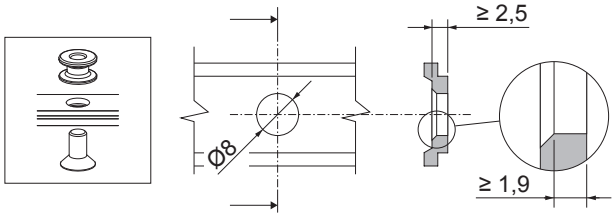
Technical Features

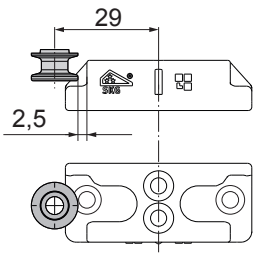
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the four self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

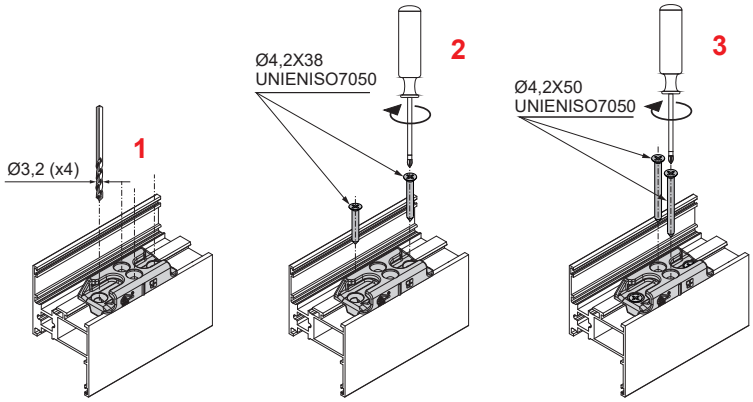
Materials

Microcast steel striker
Pawl and screws in stainless steel.









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04009	3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20



3-STAR SKG INCORRECT MOVEMENT SAFETY DEVICE

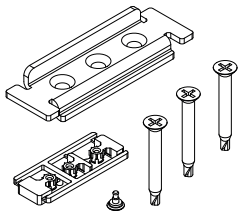
Functions
Reinforced incorrect movement safety device

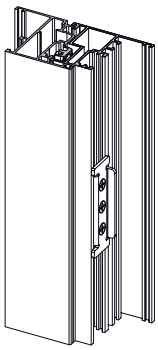
Online data sheet

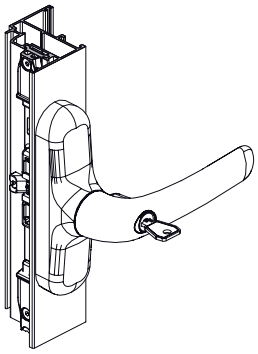
Technical Features
Made of stainless steel, it protects the incorrect movement safety device slide of the cremone.

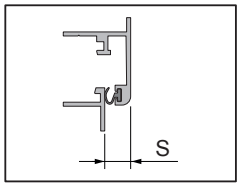
Materials
AISI 304 stainless steel components and screws.
Black polyamide shims for cremone.

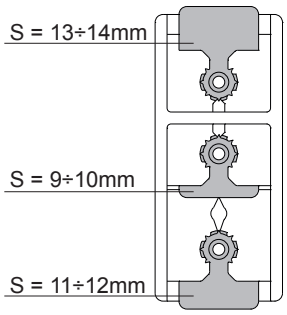
04107

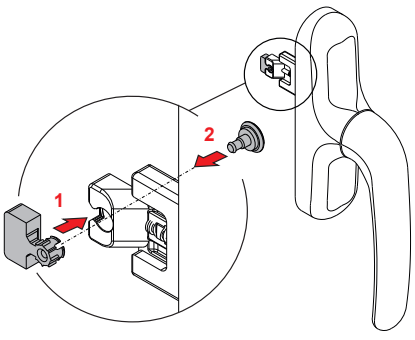












Item code	Description	Note	Base Raw	Anodised Eloxx	Painted	Trend/Gold Brass	Pieces per pack
04107	INCORRECT MOVEMENT SAFETY DEVICE		X				10



SKG - ADDITIONAL ARM

Functions

Additional arm for combination with the type 1 or type 2 arm on casements more than 1000 mm wide, installed to distribute the sash opening force during bottom-hung opening.
Specifically reinforced to achieve SKG certification.

Online data sheet

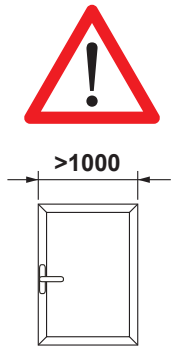
Technical Features

The additional arm is fitted to the cross-beam on opposite side to the arm (drive side) on sashes more than 1000 mm wide to prevent excessive leverage, which might impair operation of the window, during bottom-hung opening.
The arm consists of a component for connection to the corner driver without fixing screws, a rod and a slider which is fixed to the frame using three self-tapping screws provided.
The integral rod fixing utilises specific screws and plates.

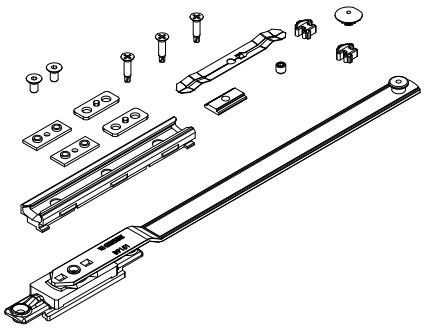
Materials

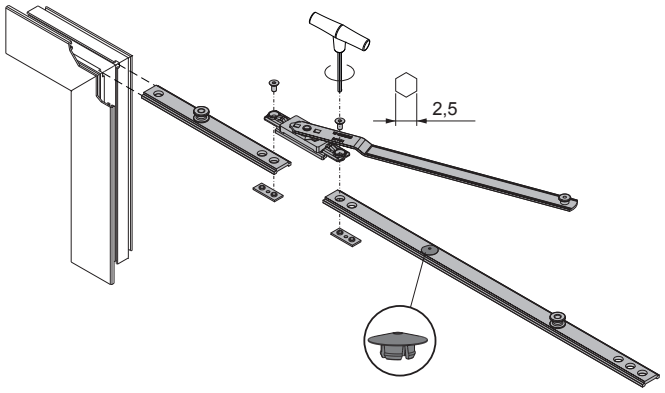
Stainless steel arm
Slider and fixing plug in GS SILVER PLUS zamak
Polyamide shim
Screws and grub screws in stainless steel

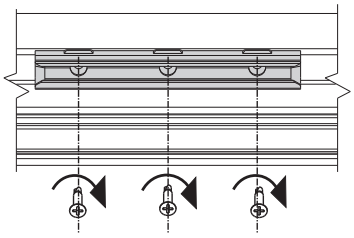


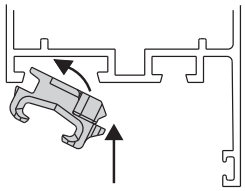


04300

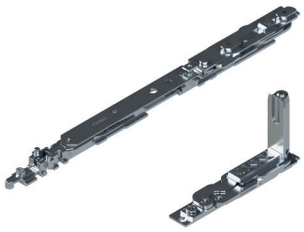








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04300	SKG - ADDITIONAL ARM		X				5



SKG - CHIC 100 TILT-AND-TURN HINGES AND ARMS

Functions

Hinge kit (upper and lower), completely pre-assembled and ready to be installed on the profile.

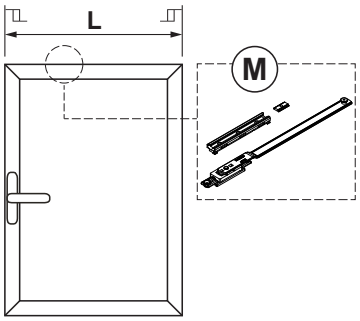
Online data sheet

Technical Features

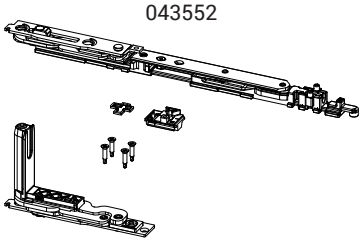
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

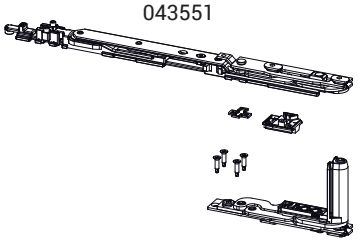
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

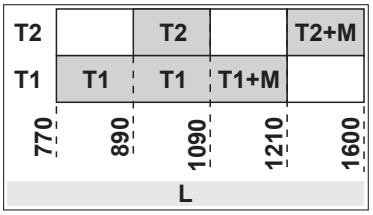


043552

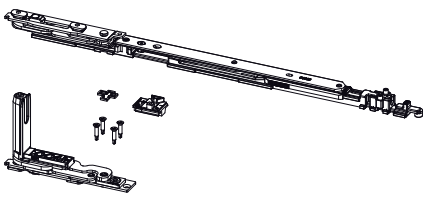


043551

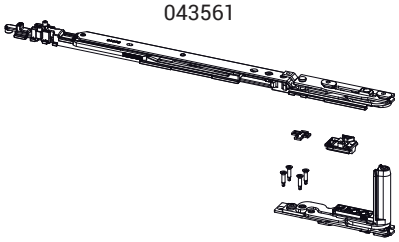




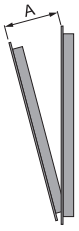
043562



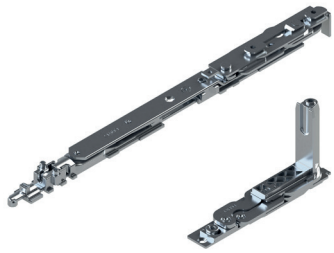
043561



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	LX	X				10



SKG - CHIC 130 TILT-AND-TURN HINGES AND ARMS

Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

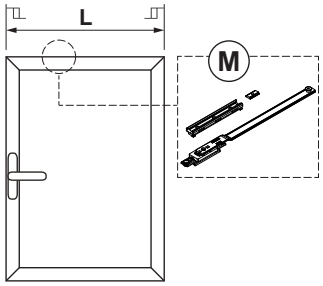
Online data sheet

Technical Features

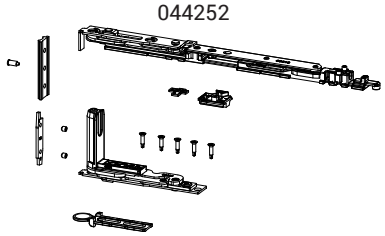
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

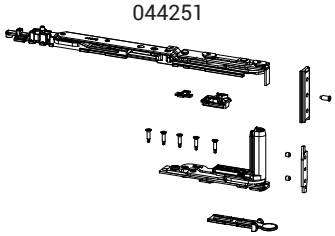
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

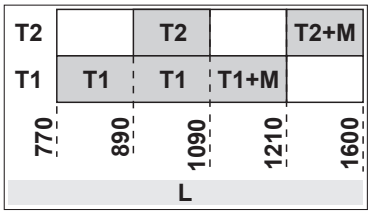


044252

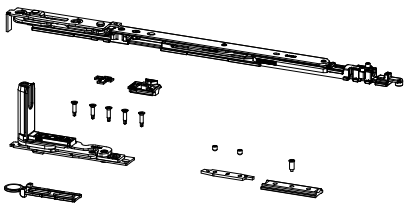


044251

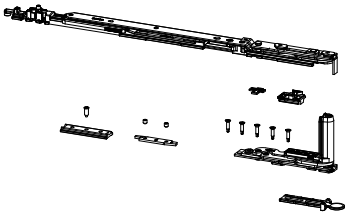




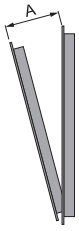
044262



044261



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001	98	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001	98	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001	148÷178	LX	X				10



SKG - FUTURA 3D 130 HINGES AND ARMS

Functions

Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

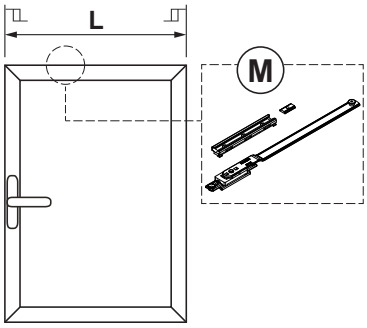
Online data sheet

Technical Features

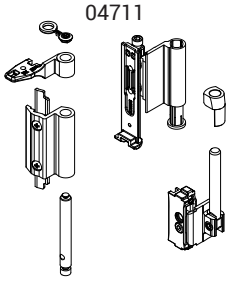
Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

Materials

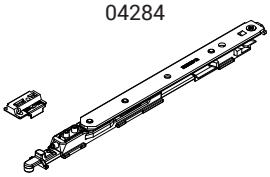
Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide



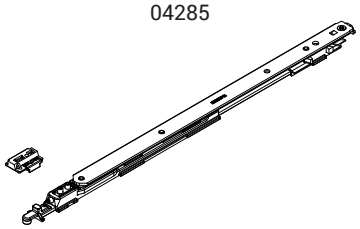
04711



04284

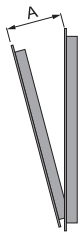


04285



T2		T2		T2+M
T1	T1	T1	T1+M	
720	870	1090	1180	1600
L				

Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C003-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	120					10
04285	ARM T2 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	175					10

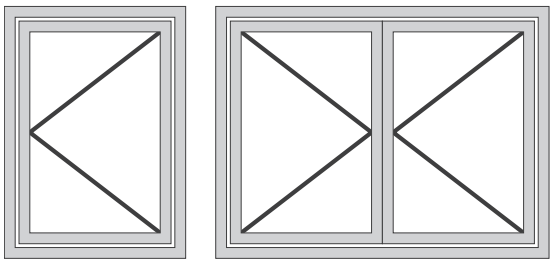
3-STAR SKG - SIDE-HUNG SYSTEMS

Functions

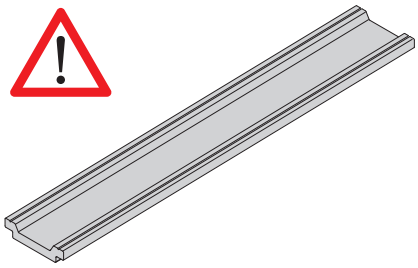
Giesse offers for single and double sash windows a complete burglar-proof closing system with SKG*** certification issued by IKOB SKG (Netherlands). The use of premium materials (such as microcast steel) is essential for strengthening the components and connection devices and ensures the closing system is designed to withstand attempted burglaries and direct attacks.

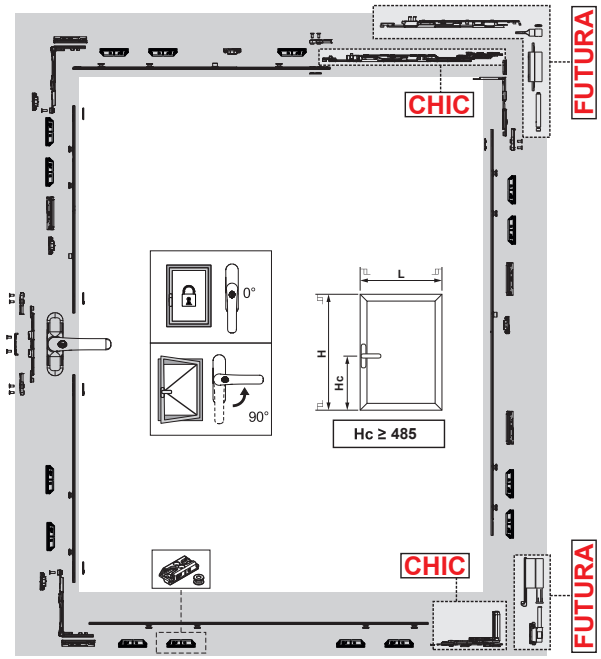
Technical Features

As it is a system which requires locking points on all sides, the tilt-and-turn arms must be used to allow the application of burglar-proof fastening mechanisms to the hinge side.
The SKG*** system consists of:
• Mechanism - SKG*** Cremone with key
• SKG*** Side-Hung mechanism
• Arms and TILT-AND-TURN hinges - CHIC or FUTURA
• SKG*** Burglar-proof fastening mechanism components
The combination of these components in line with variations in the sash dimensions ensures that the Giesse closing system is strong enough to be defined as burglar-proof, with RC3 classification in accordance with EN1627. System certification in accordance with EN1627, however, corresponds to the whole casement: hardware, profile, glass, wall fixings, etc.



The rods used with the SKG certified closing system must be made using Aluminium.



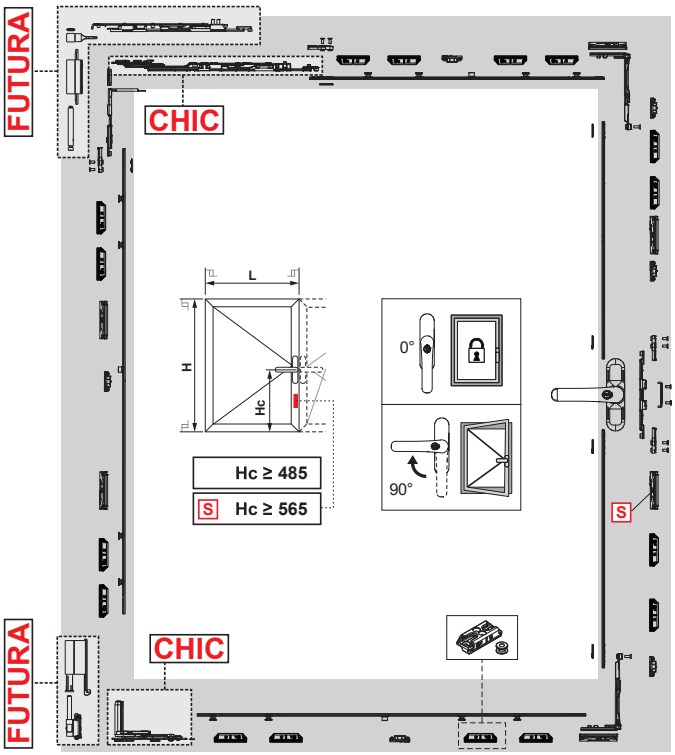


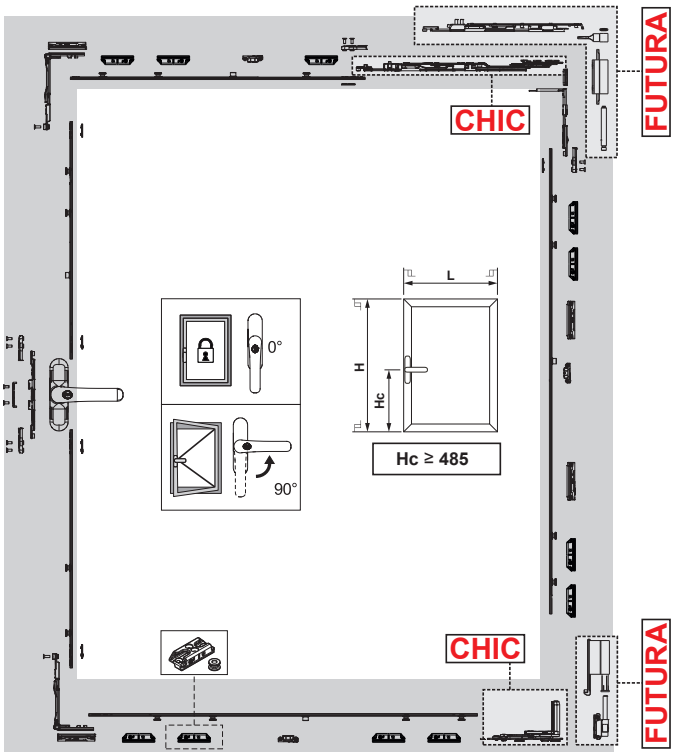
Single CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04005	Side-Hung window kit
15	04009	Burglar-proof fastening mechanism
1	043561 - 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device

Single FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
1	0108501 - 0119102 - 00960	Cremone
1	04005	Side-Hung window kit
15	04009	Burglar-proof fastening mechanism
1	04285	T2 arm 130
1	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device





Double CHIC side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04005	Side-Hung window kit
26	04009	Burglar-proof fastening mechanism
2	043561 or 043562	CHIC - Tilt-and-Turn window kit, T2 arm (RH or LH)
1	04107	Incorrect movement safety device

Double FUTURA side-hung window - Configuration with 1000x1500 mm sash (LxH)

Quantity	Item code	Description
2	0108501 or 0119102 or 00960	Cremone
2	04005	Side-Hung window kit
26	04009	Burglar-proof fastening mechanism
2	04285	T2 arm 130
2	04711	Tilt-and-Turn window hinge
1	04107	Incorrect movement safety device



SKG - CREMONES

Functions

Reversible cremone with key lockable handle, with rotation through 90° and 180° and opening/closing positioning notch.

Online data sheet

Technical Features

SKG*** certified, the cylinder makes it possible to lock the handle at 0° with a rotation and tear breaking strength greater than 100 Nm.
The cylinders of the FIRST KEY cremones have homogeneous coding, on request it is in any case possible to fulfill specific job orders with customized coding.

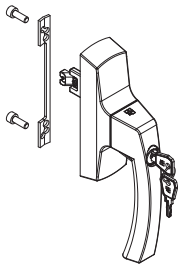
Materials

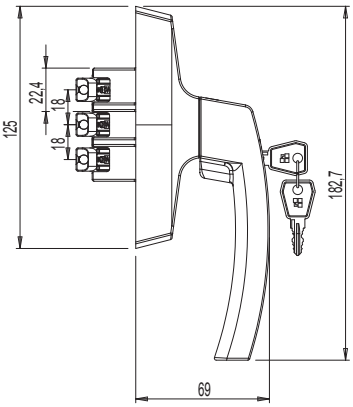
Handle in die-cast aluminium
Die-cast Zamak case, gears, racks and sliding parts
Nickel-plated brass cylinder
Internal sheath and Hostaform plate
Spring, screws and fixing plate in stainless steel

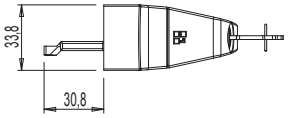
Parts

1 fixing plate
2 HSHC screws M5x14

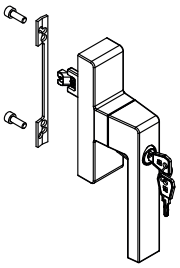
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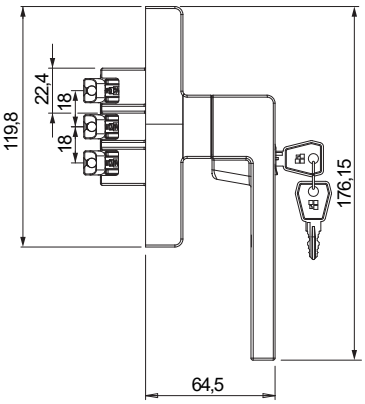


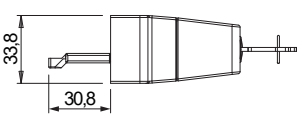




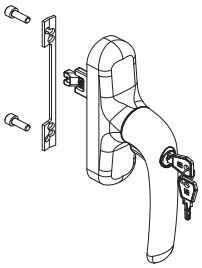
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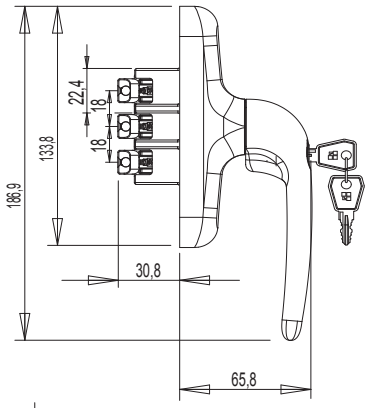


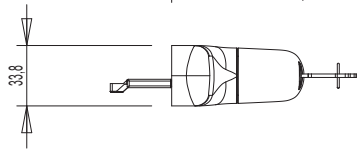




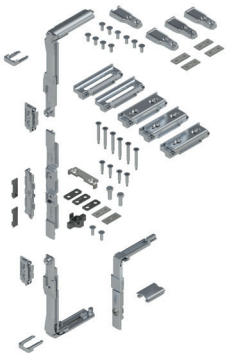
0119102







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0108501	SKG ASIA KEY MICRO CREMONE		X		X		5
0119102	SKG PRIMA KEY MICRO CREMONE		X		X		5
00960	SKG KORA KEY MICRO CREMONE		X		X		5



SKG - SIDE-HUNG WINDOW KIT

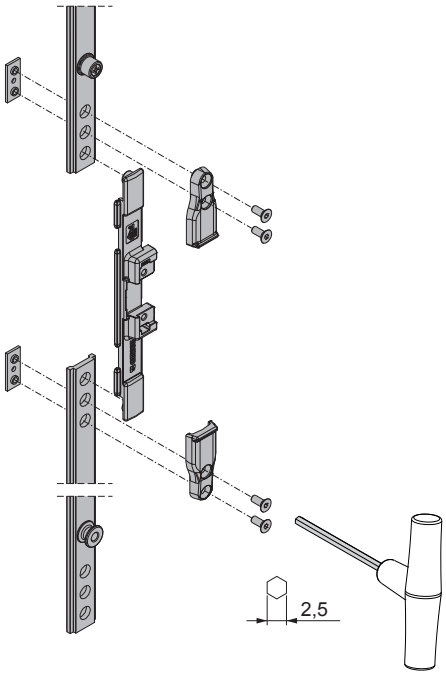
Functions
Side-Hung fastening mechanisms.

Online data sheet

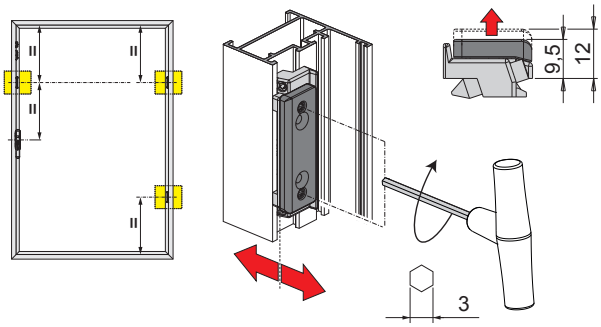
Technical Features
Perimetral closing: the 3 corner drives supplied allow closing on all sides.
It relation to a standard product, it includes strengthening components for the joints with the rod.
4 adjustable shims reduce sideways movement of the sash, increasing its resistance to burglary.

Materials
Corner drives, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance)
Sash/frame shimming components in GS Silver Plus zamak
Rod strengthening components in microcast steel
Screws and grub screws in stainless steel

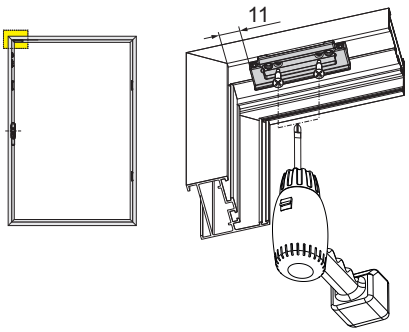
Rod strengthening components



Adjustable side shims



Top shim



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04005	SKG - SIDE-HUNG KIT		X				5



3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM

Functions

Specially designed device to increase resistance of the tilt-and-turn window to break-in attempts, making intrusion through the window more difficult.

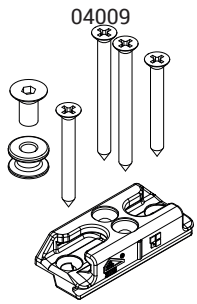
Online data sheet

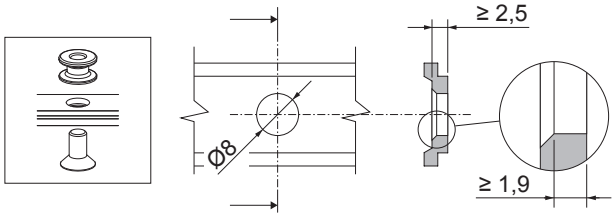
Technical Features

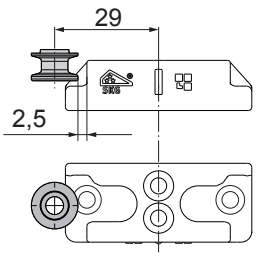
Article composed of two elements: the striker to be applied to the frame and the mushroom pawl to be applied to the rod.
The striker is reversible and is secured to the frame by means of the four self-threading screws that ensure precise, quick fixing to the frame.
The pawl is applied to the rod of the series by simply making a hole Ø 8 mm; thanks to this solution, using the burglar-proof kit requires no changes to the cutting.

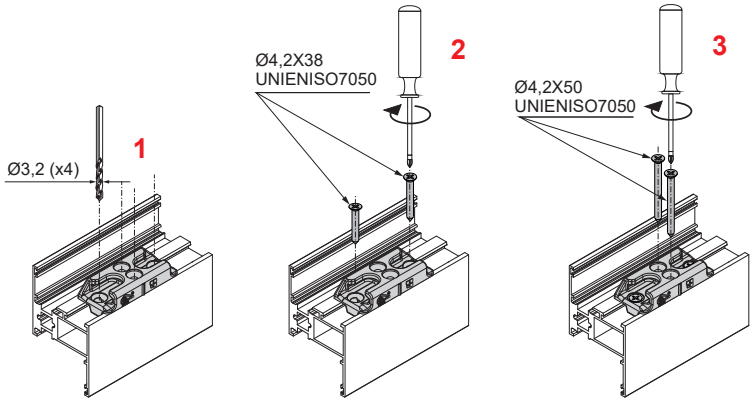
Materials

Microcast steel striker
Pawl and screws in stainless steel.









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04009	3-STAR SKG BURGLAR-PROOF FASTENING MECHANISM		X				20



3-STAR SKG INCORRECT MOVEMENT SAFETY DEVICE

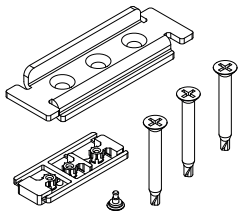
Functions
Reinforced incorrect movement safety device

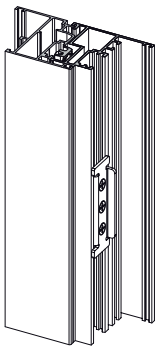
Online data sheet

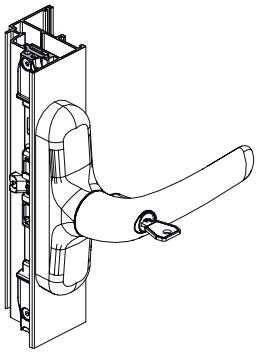
Technical Features
Made of stainless steel, it protects the incorrect movement safety device slide of the cremone.

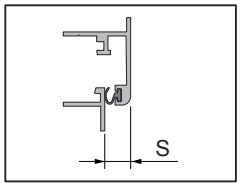
Materials
AISI 304 stainless steel components and screws.
Black polyamide shims for cremone.

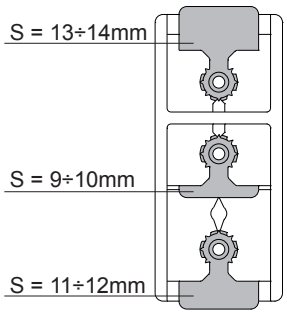
04107

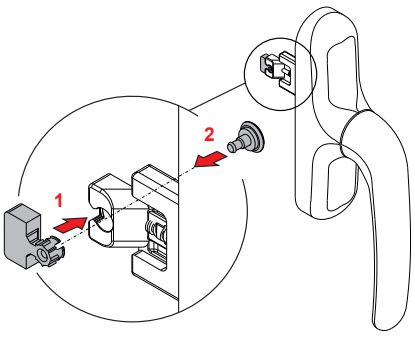




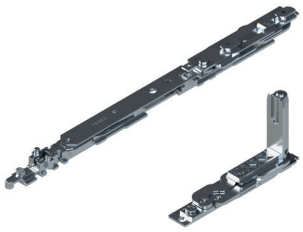








Item code	Description	Note	Base Raw	Anodised Eloxx	Painted	Trend/Gold Brass	Pieces per pack
04107	INCORRECT MOVEMENT SAFETY DEVICE		X				10



SKG - CHIC 100 SIDE-HUNG HINGES AND ARMS

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

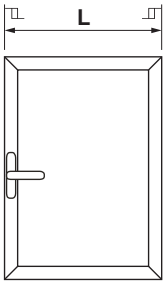
Online data sheet

Technical Features

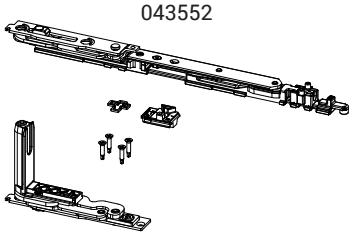
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

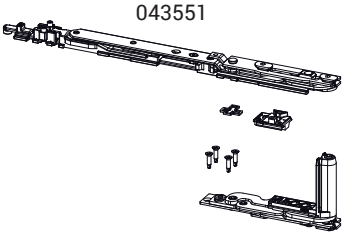
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

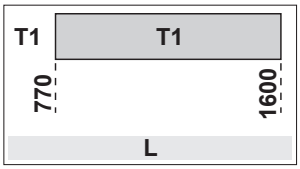


043552

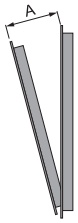


043551

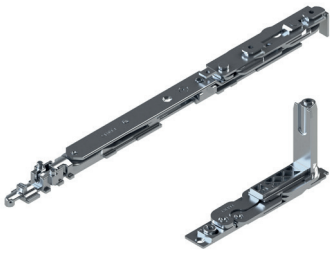




Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	LX	X				10



SKG - CHIC 130 SIDE-HUNG HINGES AND ARMS

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

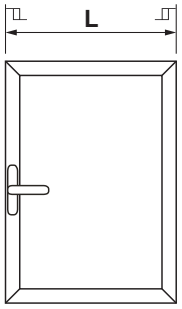
Online data sheet

Technical Features

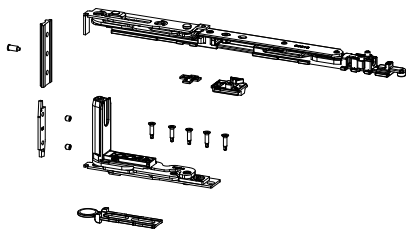
Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials

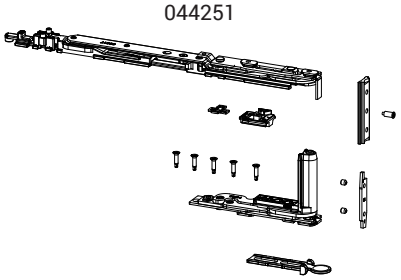
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

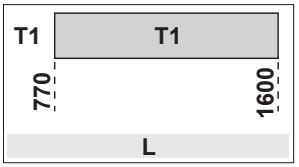


044252

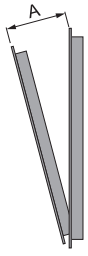


044251





Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001	98	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001	98	LX	X				10



SKG - FUTURA 3D 130 HINGES AND ARMS

Functions

Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

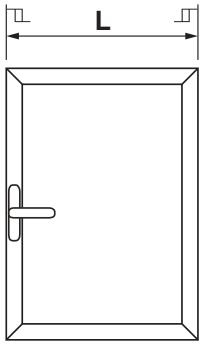
Online data sheet

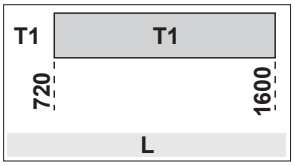
Technical Features

Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

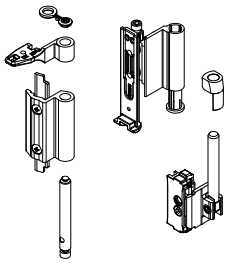
Materials

Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide

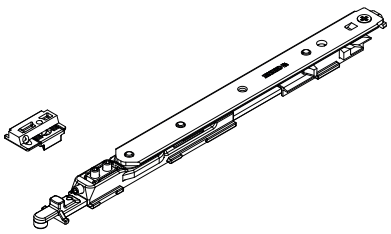




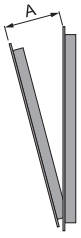
04711



04284



Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C003-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	120					10

SECURITY SASH

Functions

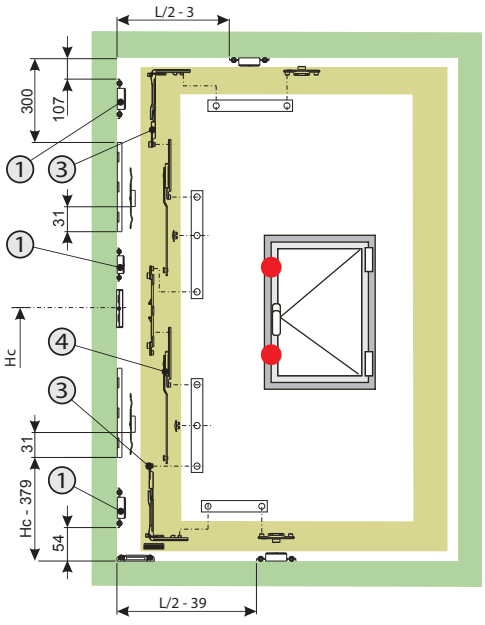
The Security Sash is a piece of hardware for making security side-hung casements.

Technical Features

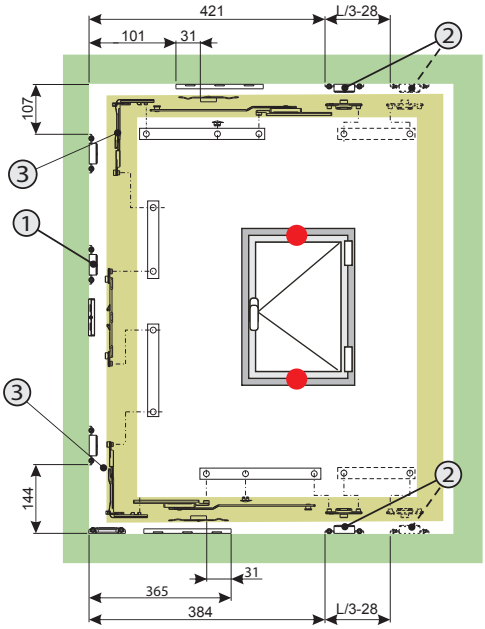
The Security Sash hardware permits limited opening of the sash, depending on the arm adjustment, with the cremone turned through 90° (see table) and fully opened with the cremone turned through 180°.
It is available in two versions depending on the position of the arms that can be with horizontal or vertical closing.
Operation:
• 0° mechanism - closed sash
• 90° mechanism - open sash (limited)
• 180° mechanism - fully open sash
Making a Security Sash requires:
• Security Sash Kit (horizontal or vertical)
• Sash hinges (CHIC 100, CHIC 130, FLASH BASE, BRIDGE 2, CELERA, FULCRA, FLASH XXL)
• Key Capture Cremone
• Additional fastening mechanisms

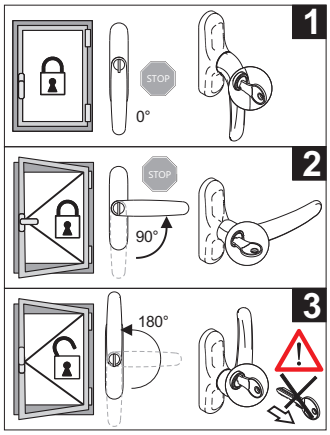


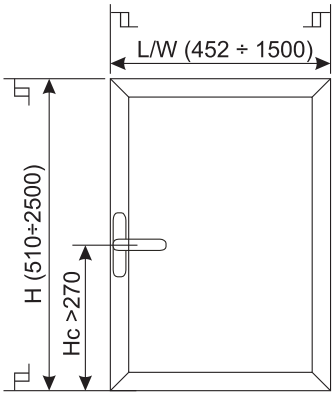
VERTICAL SECURITY SASH

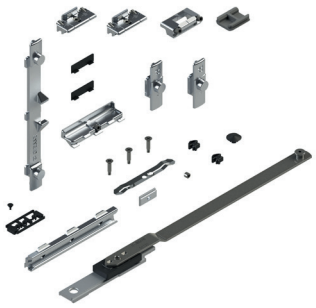


HORIZONTAL SECURITY SASH









SECURITY SASH KIT

Functions

The Security Sash hardware kit permits limited opening of the sash, depending on the arm adjustment, with the cremone turned through 90° and fully opened with the cremone turned through 180°.

Online data sheet

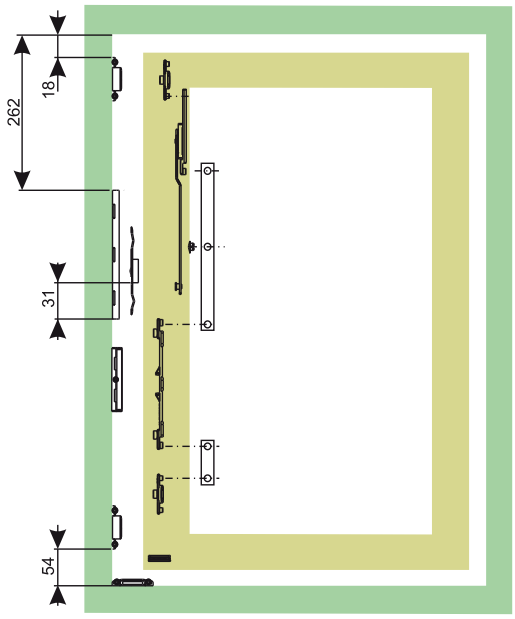
Technical Features

The kit is available in two versions depending on the position of the arms that can be with horizontal or vertical closing.
The Key Capture cremone and the CHIC 100, CHIC 130, FLASH BASE, BRIDGE 2, CELERA, FULCRA, FLASH XXL type hinges must be added to the kit, depending on the size and capacity of the casement.
Using Key mechanisms you can inhibit full opening of the sash, retaining only the emergency exit.

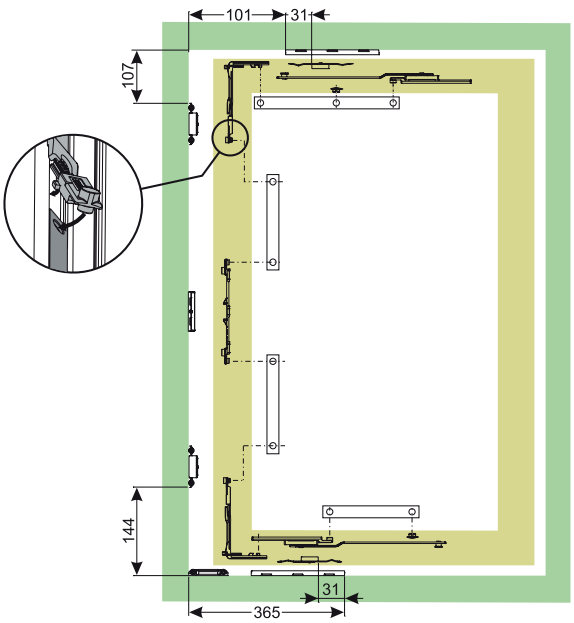
Materials

Strikers, connection elements, incorrect movement striker, drive rod, slider, stop plate, drives and clips in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Striker and lifting element, incorrect movement safety device shims, adjustment shims and supporting plug in polyamide.
Screws, grub screws, additional arm and spring for arm in stainless steel.

VERTICAL SECURITY SASH KIT

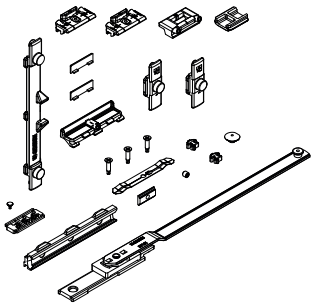


HORIZONTAL SECURITY SASH KIT

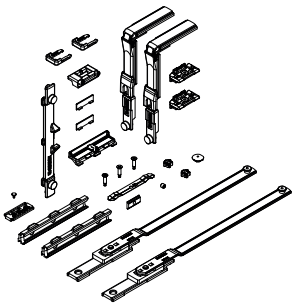


SECURITY SASH

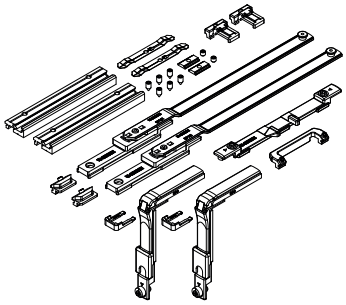
01174K



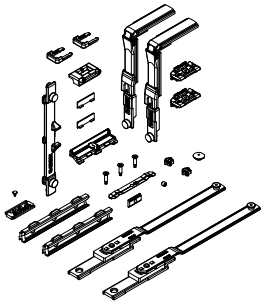
01175K

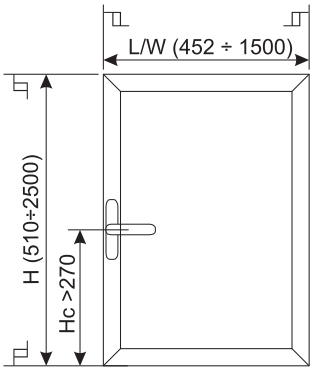


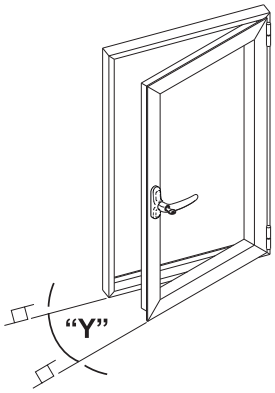
01207



01210







Item code	Description	PROFILE CROSS - SECTION	Sash range [mm]	Y [mm] Limited sash opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01174K	FUTURA VERTICAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006	W 800 ÷ 1500 H 650 ÷ 2500	110÷140	X				10
01175K	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006	W 452 ÷ 1500 H 510 ÷ 2500	130÷260	X				10
01207	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C007	L 480 ÷ 1500 H 510 ÷ 2500	130÷260	X				10
01210	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C001-C002-C003-C005	L 397 ÷ 1500 H 510 ÷ 2500	92÷152	X				10



SECURITY SASH CREMONE

Functions

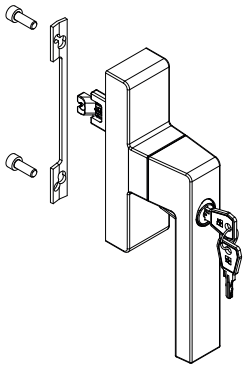
The Giesse Key Capture cremones are decisive for the operation of the Security Sash.

Online data sheet

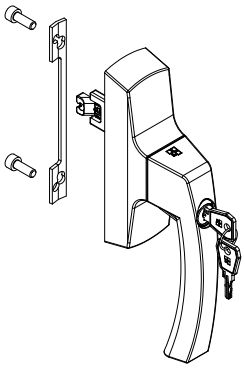
Technical Features

Operation:
• 0° mechanism - closed sash
• 90° mechanism - open sash (limited)
• 180° mechanism - fully open sash
The cylinder has the Giesse Key Capture system.

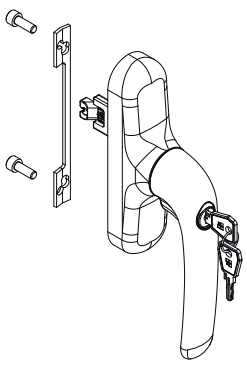
00961

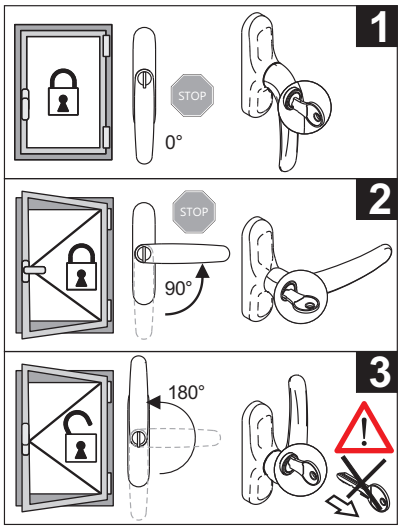


01086



01192





Item code	Description	PROFILE CROSS - SECTION	C/C distances	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00961	KORA KEY T/T CREMONE LGC	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 92	one-way	X		X	X	5
01086	ASIA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C012-C013-C014-C015-C016-C017	104 - 92	one-way	X		X		5
01192	PRIMA KEY CAPTURE LGC CREMONE	C001-C002-C003-C004-C005-C006-C007-C010-C012-C013-C014-C014-C015-C016-C017	104 - 92	one-way	X		X		5



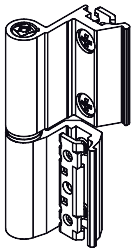
SECURITY SASH HINGES

Functions

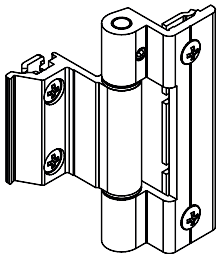
According to the need for visible or concealed hinges and the required load capacities, any Giesse sash hinge can be used.

Online data sheet

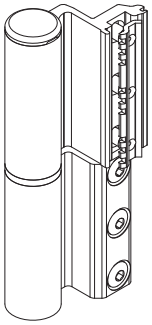
00120U



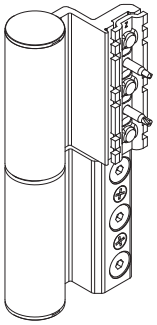
00600N



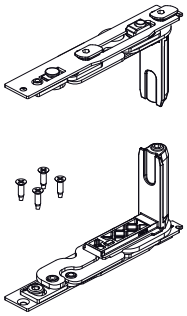
00681



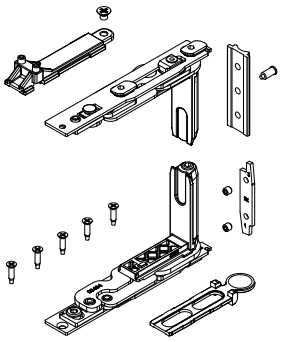
00700



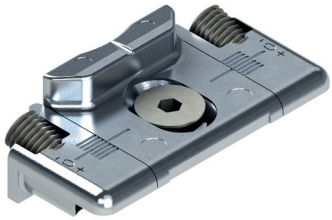
043541



044241



Item code	Description	PROFILE CROSS - SECTION	Hand	Load capacity 2 hinges [kg]	Load capacity 3 hinges [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00120U	FLASH BASE HINGE	C001		75	85	X	X	X	X	20
00128U	FLASH BASE HINGE	C007		75	85	X	X	X	X	20
00598N	HINGE FOR FLASH XXL DOORS	C001		160	180		X			20
00599	COVER, FLASH XXL HINGE	C001		-	-	X	X	X	X	20
00600N	BRIDGE 2 HINGE	C001-C002		90	100	X	X	X	X	20
00602N	BRIDGE 2 HINGE	C007		90	100	X	X	X	X	20
00681	CELERA HINGE	C001 - C002 - C005		100	120	X	X	X	X	20
00682	CELERA HINGE	C007		100	120	X	X	X	X	20
00700	FULCRA HINGE EURO GROOVE	C001		120	150	X	X	X	X	10
00701	FULCRA HINGE R40	C007-C008		120	150	X	X	X	X	10
043541	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	RX	100	-	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	LX	100	-	X				10
044241	CHIC - SASH HINGE SET	C001	RX	130	-	X				10
044242	CHIC - SASH HINGE SET	C001	LX	130	-	X				10



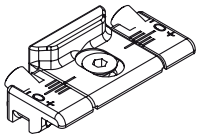
SECURITY SASH ADDITIONAL FASTENING MECHANISMS

Functions

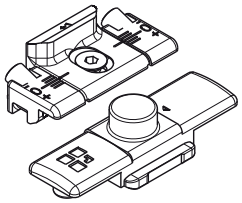
On the basis of the dimensions of the casement, the additional fastening mechanisms are to be used in conjunction with the Security Sash or Futura HP Bottom-Hung Windows mechanisms.

Online data sheet

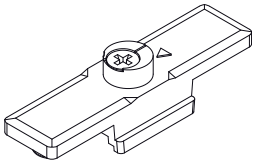
01347K



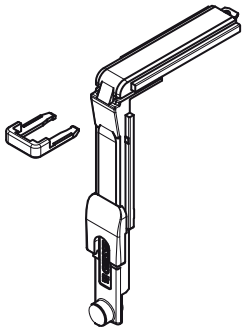
04777K



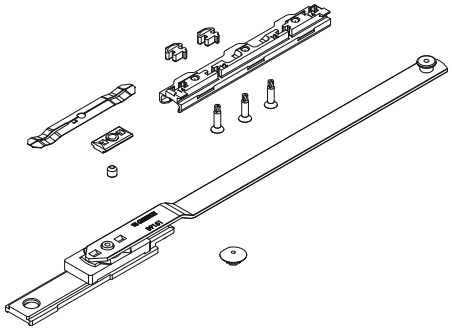
04048



04019K



04301K



Item code	Description	PROFILE CROSS - SECTION	L (mm)	H (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	CLOSING STRIKER	C001-C002-C003-C005-C011-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P008-P009	-	1201 ÷ 2500	X				200
04019K	CORNER DRIVE FOR 01174K	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	1001 ÷ 1500	-	X				10
04301K	ADDITIONAL ARM FOR 01174K	C001-C002-C003-C005-C006-C011-C013-C014-C015-C016-C017	-	1201 ÷ 2500	X				5
04777K	HORIZONTAL ADDITIONAL FASTENING MECHANISM FOR 01175K	C001-C002-C003-C005-C006-C011-C013-C014-C015-C016-C017	751 ÷ 1500	-	X				50
04048	FIXED CONNECTION JOINT MX-MX	C007	-	1201 ÷ 2500	X				100

CONFIGURATION EXAMPLES

Horizontal security sash configuration with CHIC 100 hinges

Sash width [mm]	452 ÷ 1500
Sash height [mm]	510 ÷ 2500
Horizontal security sash	01175K
KEY CAPTURE cremone	00961 - 01086 - 01192
Sash CHIC hinge	043541 - 043542

Vertical security sash configuration with CHIC 100 hinges

Sash width [mm]	800 ÷ 1500
Sash height [mm]	650 ÷ 2500
Horizontal security sash	01174K
KEY CAPTURE cremone	01192 - 01193
Sash CHIC hinge	043541 - 043542

HP BOTTOM-HUNG WINDOW



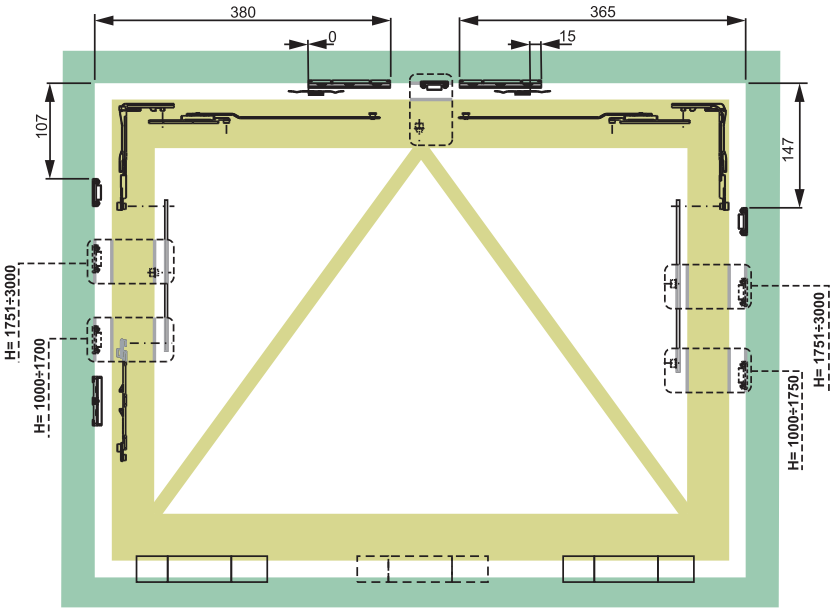
Functions

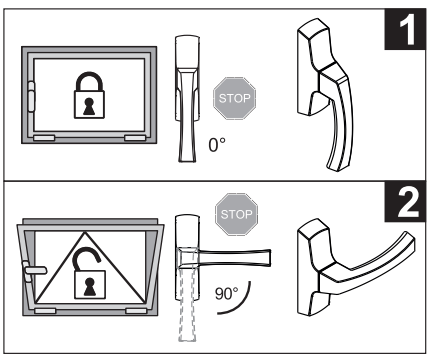
The HP bottom-hung window is a mechanism suitable for the construction of bottom-hung window casement weighing up to 250 kg.

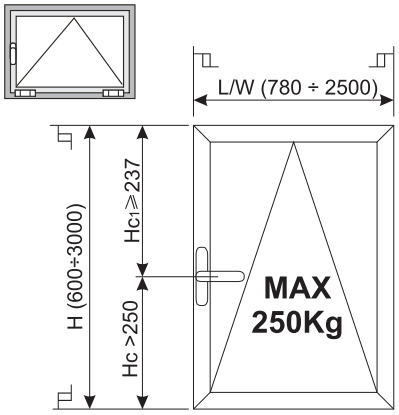
Technical Features

The hardware allows the construction of casements with height up to 3000 mm and width up to 2500 mm.
Possibility to close the casement on three sides (excellent air-water-wind performance).
Operation:
• 0° mechanism - closed bottom-hung window
• 90° mechanism - open bottom-hung window
Making a HP bottom-hung window requires:
• Bottom-hung window kit
• Bottom-hung window hinges (CHIC VASISTAS, BRIDGE 2)
• Cremone with 90° block (ASIA, KORA, PRIMA, EURO)

FUTURA HP BOTTOM-HUNG WINDOW









HP BOTTOM-HUNG WINDOW KIT

Functions

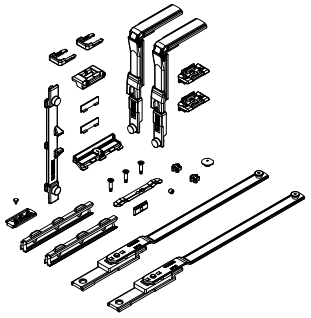
Hardware kit for the construction of bottom-hung windows with capacities up to 250 kg and perimetral closing.

Online data sheet

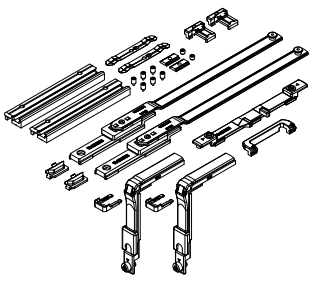
Technical Features

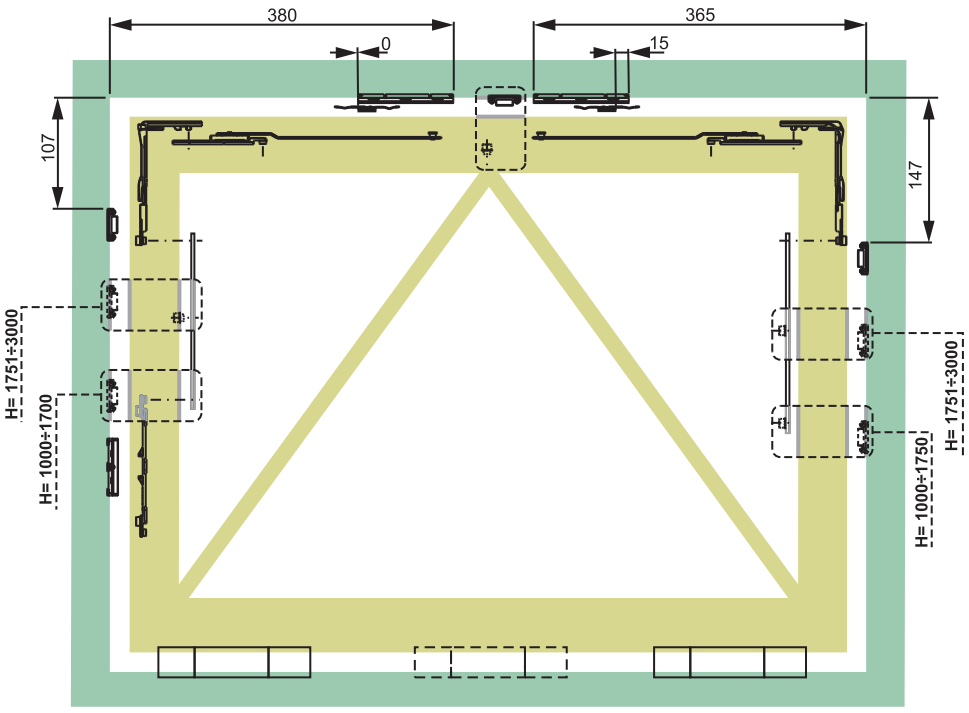
The bottom-hung window requires a one-way cremone or a window handle, with or without a key, to which the 90° locking component (art. 02235) must be added.

01175K



01207





Item code	Description	PROFILE CROSS - SECTION	Bottom-hung window range [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01175K	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C001-C002-C003-C004-C005-C006	W 780 ÷ 2500 H 600 ÷ 3000	X				10
01207	FUTURA HORIZONTAL SECURITY SASH MECHANISM	C007	W 780 ÷ 2500 H 600 ÷ 3000	X				10



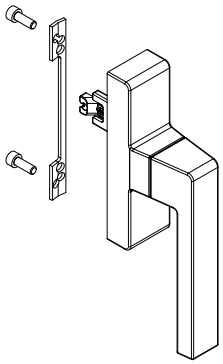
HP BOTTOM-HUNG WINDOW CREMONE

Functions

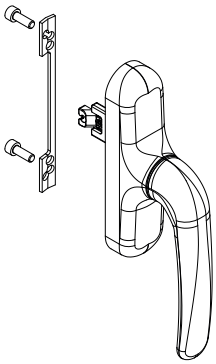
Cremone usually used on tilt-and-turn window. For use on HP BOTTOM-HUNG WINDOW, it must be equipped with a mechanical block to be inserted inside, which limits its 90° rotation.

Online data sheet

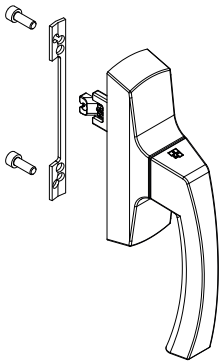
00959



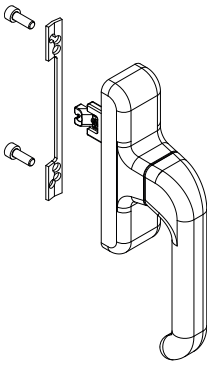
01039



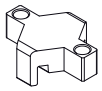
01084



01094

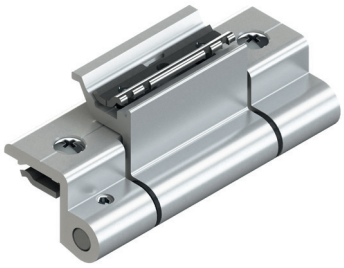


02235



Item code	Description	PROFILE CROSS - SECTION	C/C distances	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00959	KORA T/T MICRO-VENTILATION CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 98 - 92 - 84	one-way	X		X	X	10
01039	PRIMA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 98 - 84	one-way	X		X	X	10
01084	KORA CREMONE	C001-C002-C003-C004-C005-C006-C007-C008-C009-C010-C012-C013-C014-C015-C016-C017	104 - 98 - 92 - 84	one-way	X		X	X	10
01094	EURO 900 MICRO CREMONE	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	104 - 98 - 84	one-way	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02235	90° CREMONE STOP BLOCK	-	X				100



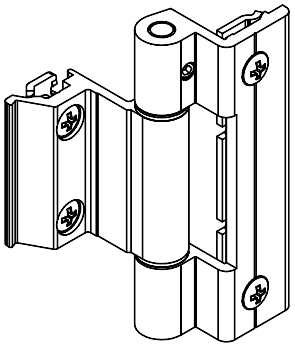
HP BOTTOM-HUNG WINDOW HINGES

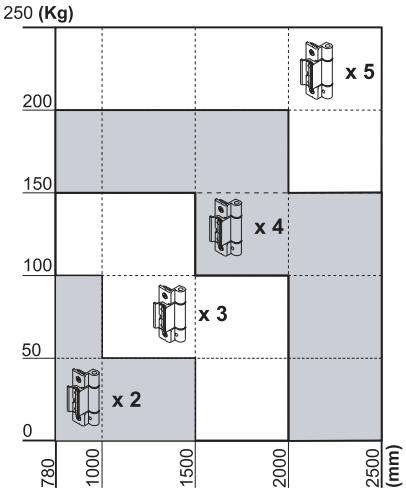
Functions

Based on the need for visible or concealed hinges, Bridge and Chic Vasistas hinges are available.
In both cases, in combination with the HP bottom-hung window kit, it is possible to make casements weighing up to 250 kg.

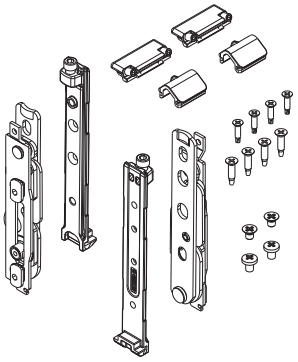
Online data sheet

00600N

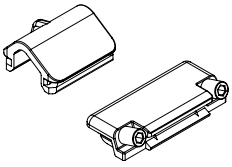


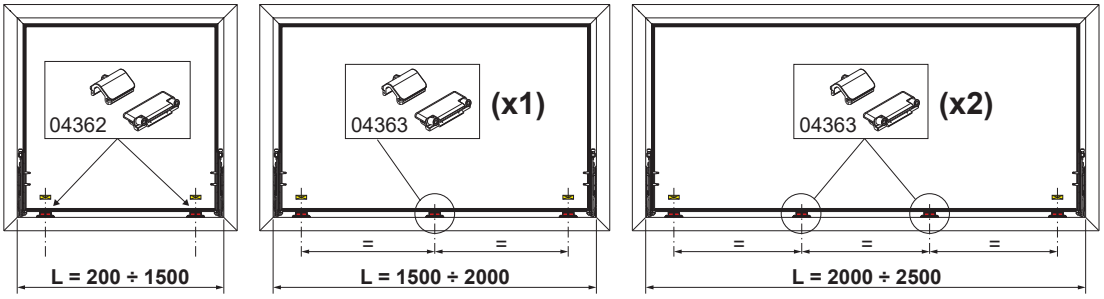


04362



04363





Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00600N	BRIDGE 2 HINGE	C001-C002	X	X	X	X	20
00602N	BRIDGE 2 HINGE	C007	X	X	X	X	20
04362	CHIC - BOTTOM-HUNG WINDOW HINGE KIT	see Where Used	X				10
04363	CHIC - BOTTOM-HUNG WINDOW RAISING COMPONENT		X				10



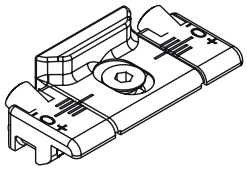
HP BOTTOM-HUNG WINDOW ADDITIONAL FASTENING MECHANISMS

Functions

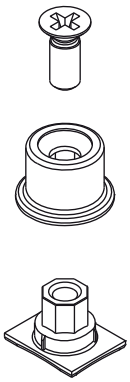
Additional hardware to be used according to the size of the sash.

Online data sheet

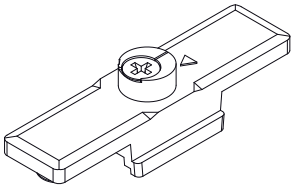
01347



04027K



04048



Item code	Description	PROFILE CROSS - SECTION	H (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	CLOSING STRIKER	C001-C002-C003-C005-C011-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P008-P009	1201 ÷ 2500	X				200
04027K	FUTURA FIXED PAWL	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P008-P009-P010		X				200
04048	FIXED CONNECTION JOINT MX-MX	C007	1201 ÷ 2500	X				100

CONFIGURATION EXAMPLES

HP Bottom-Hung Window configuration with Bottom-hung window CHIC hinges

Sash width [mm]	780 - 2500
Sash height [mm]	600 - 3000
Horizontal security sash	01175K
HP Bottom-Hung Window Cremone	00959 - 01039 - 01084 - 01094
90° stop block	02235
Sash CHIC hinge	04362
Bottom-hung window lifting element (L>1500)	04362

HP Bottom-Hung Window configuration with BRIDGE hinges

Sash width [mm]	780 - 2500
Sash height [mm]	600 - 3000
Horizontal security sash	01175K
HP Bottom-Hung Window Cremone	00959 - 01039 - 01084 - 01094
90° stop block	02235
Bridge Hinge	00600N

VENTILATION SASH

Functions

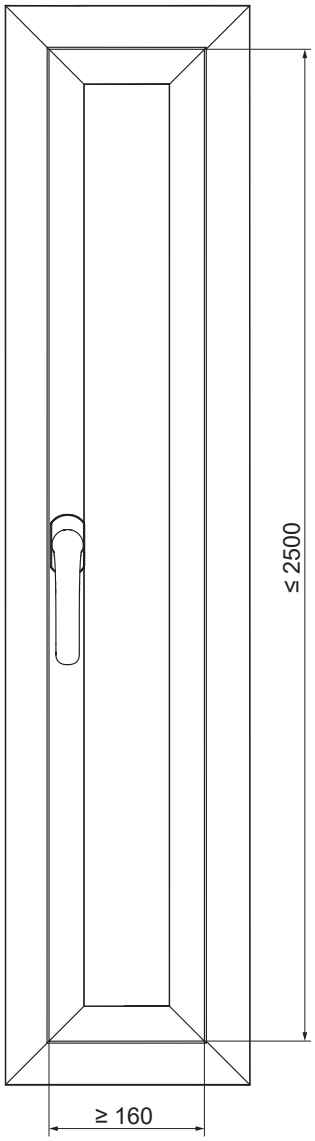
Ventilation sash is hardware suitable for the construction of side-hung sashes, the main characteristic of which is that they are very narrow. It is particularly used on curtain walls.

Technical Features

Ventilation sash hardware is offered with CHIC concealed hinges used to make sashes up to a minimum width of 160 mm:
- 0° mechanism - closed sash
- 90° mechanism - open sash

Making a ventilation sash requires:
- CHIC 100 sash hinges
- Cremone, window handles and Giesse SUPRA 7 window handles
- Fastening mechanisms (terminals and strikers)





CONFIGURATION EXAMPLES

Ventilation sash configuration with standard profiles (two-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
Two-way movement	1 pc.	0102001
Giap terminal	2 pcs.	02114K - 02188K
Single striker	2 pcs.	01348K
CHIC - Sash hinge set	1 pc.	043541 - 043542

Ventilation sash configuration with minimal profiles (one-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
One-way movement	1 pc.	00949
Fixed pawl	2 pcs.	04027K
Adjustable striker	2 pcs.	01347K
CHIC - Sash hinge set	1 pc.	043541 - 043542



VENTILATION SASH HINGES

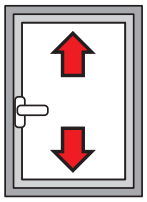
Functions
Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

Online data sheet

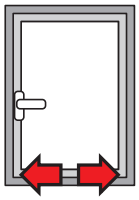
Technical Features
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.
CAUTION: This hinge is designed to be used only on inward opening casements and is not suitable for outward opening casements.

Materials
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

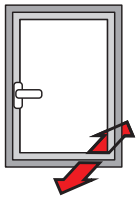
ADJUSTMENTS [mm]



Height:
+2.5 / -1



Side:
+1.5 / -1.5



Hinge compression:
+1.4 / -0.6

Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	LX	X				10



VENTILATION SASH MECHANISMS

Functions

Giesse Cremone and window-handles can be used to operate a Ventilation sash.
For space and design reasons, we recommend the use of the SUPRA 7 hammer, an innovative reversible mechanism system without washer, which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins.

Online data sheet

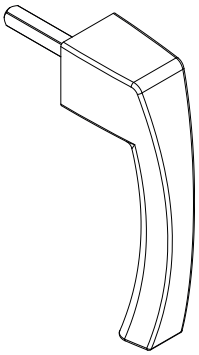
Technical Features

Supra 7 window handles can be combined with Giesse sash drives and mechanisms and have a rotor with a 7 mm square hole.
They are available in four styles: ARIA, ASIA, KORA and PRIMA.
Two movements are available:
• 0102001 for standard profiles (11.1 mm backset) two-way
• 00949 for minimal profiles (3.5 mm backset), one-way

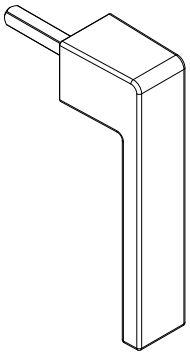
Materials

Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

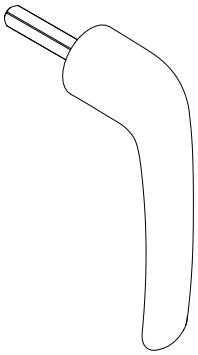
04153



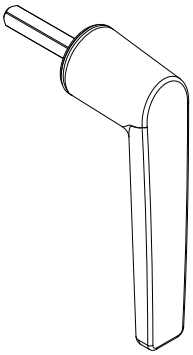
04154



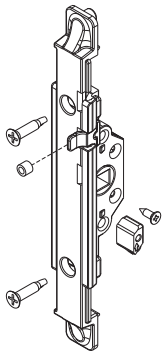
04155



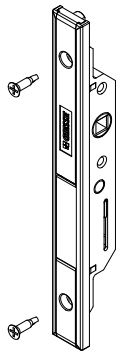
04156



00949



0102001



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04153	SUPRA 7 - ASIA MECHANISM		X		X	X	10
04154	SUPRA 7 - KORA MECHANISM		X		X	X	10
04155	SUPRA 7 - PRIMA MECHANISM		X		X	X	10
04156	SUPRA 7 - ARIA MECHANISM		X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00949	ONE-WAY MECHANISM M180	C001-C002-C003-C004-C005-C006-C012-C013-C014-C015-C016-C017	GS Silver Plus	X				10
0102001	TWO-WAY INTERNAL MECHANISM	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	GS Silver Plus	X				5



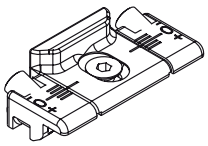
VENTILATION SASH FASTENING MECHANISMS

Functions

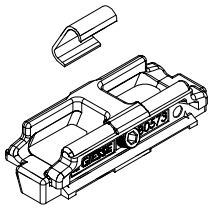
Depending on the fastening system (one-way or two-way), different fastening components such as terminals or pawls and their corresponding strikers are available.

Online data sheet

01347K



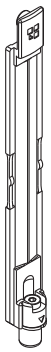
01348K



02114K



02188K



04027K



Item code	Description	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	STRIKER	X				200
01348K	STRIKER	X				100
02114K	TERMINAL FOR RODS	X				50
02188K	FUTURA ADJUSTABLE TERMINAL	X				40
04027K	FUTURA FIXED PAWL	X				200

CHIC 100 SASH



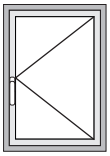
Functions

CHIC Sash is a mechanism used for manufacturing a modern and minimalist interior side-hung casement thanks to the possibility of combining CHIC hinges with 180° opening with the innovative SUPRA 7 window handle without rosette.

Technical Features

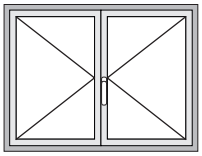
CHIC 100 Sash hardware is offered with concealed hinges used to make sashes up to a minimum width of 160 mm:
• 0° mechanism - closed sash
• 90° mechanism - open sash
Making a CHIC 100 Sash requires:
• CHIC 100 sash hinges
• SUPRA 7 or Cremone window handles and Giesse window handles
• Fastening mechanisms (terminals and strikers)
Sash minimum and maximum dimensions:
Width: 160 – 1500 mm
Height: 600 – 2500 mm.

CONFIGURATION EXAMPLES



Single CHIC 100 Sash configuration with standard profiles (two-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
Two-way movement	1 pc.	0102001
Giap/Adjustable terminal	2 pcs.	02114K - 02188K
Single striker	2 pcs.	01348K
Raising component	1 pc.	02336
CHIC - Sash hinge set	1 pc.	043541 - 043542



Double CHIC 100 sash configuration with standard profiles (two-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
Two-way movement	1 pc.	0102001
Giap/Adjustable terminal	2 pcs.	02114K - 02188K
Giap/Adjustable Bolt	2 pcs.	02111K - 02168K
Double striker	2 pcs.	01349
Raising component	2 pcs.	02336
CHIC - Right-hand sash hinge kit	1 pc.	043541
CHIC - Left-hand sash hinge kit	1 pc.	043542

Single CHIC 100 Sash configuration with minimal profiles (one-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
One-way movement	1 pc.	00949
Fixed pawl	2 pcs.	04027K
Adjustable striker	2 pcs.	01347K
Sash support cap	1 pc.	02306
CHIC - Sash hinge set	1 pc.	043541 - 043542

Double CHIC 100 Sash configuration with minimal profiles (one-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
One-way movement	1 pc.	00949
Fixed pawl	2 pcs.	04027K
Adjustable striker	2 pcs.	01347K
Giap/Adjustable Bolt	2 pcs.	02111K - 02168K
Main sash support cap	1 pc.	02306
Secondary sash support cap	1 pc.	02336
Single striker	2 pcs.	01348
CHIC - Right-hand sash hinge kit	1 pc.	043541
CHIC - Left-hand sash hinge kit	1 pc.	043542



CHIC 100 SASH HINGES

Functions

Concealed hinges, designed for traditional and minimal profiles, with sash weight up to 100 kg.

Online data sheet

Technical Features

This hinge is designed to be combined with reduced hardware dimensions in view, such as SUPRA 7.

Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

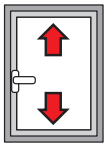
Table of maximum glass thickness [mm]

600 / 160	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					

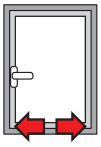
Table of maximum load capacity [kg]

600 / 160	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					

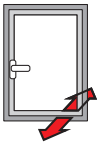
ADJUSTMENTS [mm]



Height:
+2.5 / -1



Side:
+1.5 / -1.5



Hinge compression:
+1.4 / -0.6

Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	LX	X				10



CHIC 100 SASH MECHANISM

Functions

Giesse Cremone and window handles can be used to operate a CHIC 100 sash.
For space and design reasons, we recommend the use of the SUPRA 7 hammer, an innovative reversible mechanism system without washer, which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins.

Online data sheet

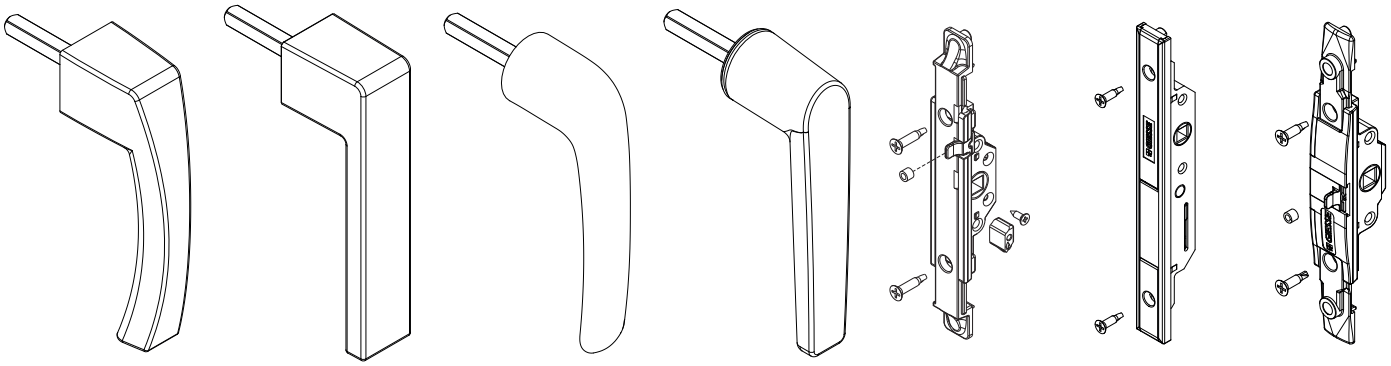
Technical Features

Supra 7 window handles can be combined with Giesse sash drives and mechanisms and have a rotor with a 7 mm square hole.
They are available in four styles: ARIA, ASIA, KORA and PRIMA.
Two movements are available:
• 0102001 for standard profiles (11.1 mm backset) two-way
• 00949 for minimal profiles (3.5 mm backset), one-way
• 0106101 for standard profiles (11.1 mm backset) one-way

Materials

Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

04153 04154 04155 04156 00949 0102001 0106101



Item code	Description	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04153	SUPRA 7 - ASIA MECHANISM	X		X	X	10
04154	SUPRA 7 - KORA MECHANISM	X		X	X	10
04155	SUPRA 7 - PRIMA MECHANISM	X		X	X	10
04156	SUPRA 7 - ARIA MECHANISM	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00949	ONE-WAY MECHANISM M180	-	GS Silver Plus	X				10
0102001	TWO-WAY INTERNAL MECHANISM	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	GS Silver Plus	X				5
0106101	ONE-WAY MECHANISM	-	GS Silver Plus	X				10



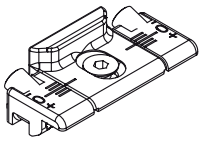
CHIC 100 SASH FASTENERS

Functions

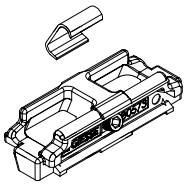
Depending on the fastening system (one-way or two-way), different fastening components such as terminals or pawls and their corresponding strikers are available.

Online data sheet

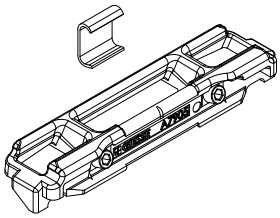
01347K



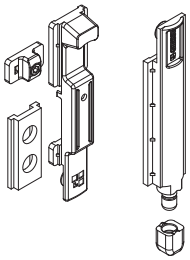
01348K



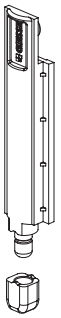
01349K



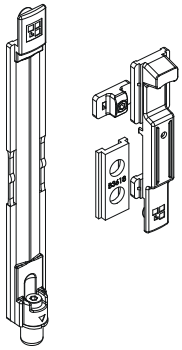
02111K



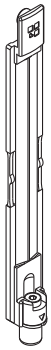
02114K



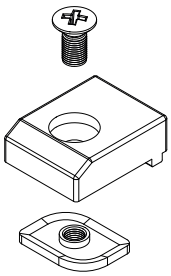
02168K



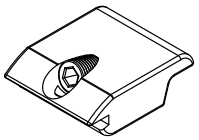
02188K



02309



02336



04027K



Item code	Description	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	STRIKER	X				200
01348K	STRIKER	X				100
01349K	STRIKER	X				100
02111K	GIAP BOLT	X				50
02114K	TERMINAL FOR RODS	X				50
02168K	FUTURA ADJUSTABLE BOLT	X				10
02188K	FUTURA ADJUSTABLE TERMINAL	X				40
02309	SASH SUPPORT PLUG	X				100
02336	SASH SUPPORT PLUG	X				500
04027K	FUTURA FIXED PAWL	X				200

CHIC 130 SASH



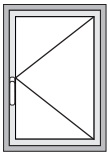
Functions

CHIC Sash is a mechanism used for manufacturing a modern and minimalist interior side-hung casement thanks to the possibility of combining CHIC hinges with 180° opening with the innovative SUPRA 7 window handle without rosette.

Technical Features

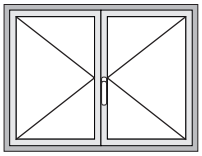
CHIC 130 Sash hardware is offered with concealed hinges used to make sashes up to a minimum width of 200 mm:
• 0° mechanism - closed sash
• 90° mechanism - open sash
Making a CHIC 130 Sash requires:
• CHIC 130 sash hinges
• SUPRA 7 or Cremone window handles and Giesse window handles
• Fastening mechanisms (terminals and strikers)
Sash minimum and maximum dimensions:
Width: 200 – 1500 mm
Height: 600 – 2500 mm.

CONFIGURATION EXAMPLES



Single CHIC 130 Sash configuration with standard profiles (two-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
Two-way movement	1 pc.	0102001
Giap/Adjustable terminal	2 pcs.	02114K - 02188K
Single striker	2 pcs.	01348K
Raising component	1 pc.	02336
CHIC - Sash hinge set	1 pc.	044241 - 044242



Double CHIC 130 sash configuration with standard profiles (two-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
Two-way movement	1 pc.	0102001
Giap/Adjustable terminal	2 pcs.	02114K - 02188K
Giap/Adjustable Bolt	2 pcs.	02111K - 02168K
Double striker	2 pcs.	01349
Raising component	2 pcs.	02336
CHIC - Right-hand sash hinge kit	1 pc.	044241
CHIC - Left-hand sash hinge kit	1 pc.	044242

Single CHIC 130 Sash configuration with minimal profiles (one-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
One-way movement	1 pc.	00949
Fixed pawl	2 pcs.	04027K
Adjustable striker	2 pcs.	01347K
Sash support cap	1 pc.	02306
CHIC - Sash hinge set	1 pc.	044241 - 044242

Double CHIC 130 Sash configuration with minimal profiles (one-way)

Article	Qty	Item code
Supra 7 window handle	1 pc.	04153 - 04154 - 04155 - 04156
One-way movement	1 pc.	00949
Fixed pawl	2 pcs.	04027K
Adjustable striker	2 pcs.	01347K
Giap/Adjustable Bolt	2 pcs.	02111K - 02168K
Main sash support cap	1 pc.	02306
Secondary sash support cap	1 pc.	02336
Single striker	2 pcs.	01348
CHIC - Right-hand sash hinge kit	1 pc.	044241
CHIC - Left-hand sash hinge kit	1 pc.	044242



CHIC 130 SASH HINGES

Functions

Concealed hinges, designed for traditional and minimal profiles, with sash weight up to 130 kg.

Online data sheet

Technical Features

This hinge is designed to be combined with reduced hardware dimensions in view, such as SUPRA 7.

Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	35	29	25	22	19	17	16	14	13	12	12	
2700	37	31	26	23	20	18	17	15	14	13	12	
2600	39	32	28	24	21	19	18	16	15	14	13	12
2500	43	35	30	27	24	21	19	18	16	15	14	13
2400	43	35	30	27	24	21	19	18	16	15	14	13
2300	44	37	32	28	25	22	20	18	17	16	15	14
2200	46	39	33	29	26	23	21	19	18	17	15	14
2100	49	40	35	30	27	24	22	20	19	17	16	15
2000	51	43	36	32	28	26	23	21	20	18	17	16
1900	54	45	38	34	30	27	24	22	21	19	18	17
1800	57	47	40	35	31	28	26	24	22	20	19	18
1700	60	50	43	38	33	30	27	25	23	21	20	18
1600	60	53	46	40	35	32	29	27	25	23	21	18
1500	60	57	49	43	38	34	31	28	26	24	21	18
1400	60	60	52	46	40	36	33	30	28	24	21	18
1300	60	60	56	49	44	39	36	33	28	24	21	18
1200	60	60	60	53	47	43	39	33	28	24	21	
1100	60	60	60	58	52	46	39	33	28	24		
1000	60	60	60	60	57	47	39	33	28			
900	60	60	60	60	58	47	39	33				
800	60	60	60	60	58	47	39					
700	60	60	60	60	58	47						

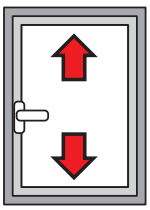
600 / 200

Table of maximum load capacity [kg]

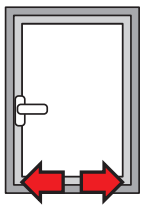
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	124	124	124	124	124	124	124	124	124	124	124	
2700	126	126	126	126	126	126	126	126	126	126	126	
2600	128	128	128	128	128	128	128	128	128	128	128	128
2500	130	130	130	130	130	130	130	130	130	130	130	130
2400	130	130	130	130	130	130	130	130	130	130	130	130
2300	130	130	130	130	130	130	130	130	130	130	130	130
2200	130	130	130	130	130	130	130	130	130	130	130	130
2100	130	130	130	130	130	130	130	130	130	130	130	130
2000	130	130	130	130	130	130	130	130	130	130	130	130
1900	130	130	130	130	130	130	130	130	130	130	130	130
1800	130	130	130	130	130	130	130	130	130	130	130	130
1700	130	130	130	130	130	130	130	130	130	130	130	127
1600	130	130	130	130	130	130	130	130	130	130	127	119
1500	130	130	130	130	130	130	130	130	130	128	119	112
1400	130	130	130	130	130	130	130	130	129	119	111	104
1300	130	130	130	130	130	130	130	129	119	111	103	97
1200	130	130	130	130	130	130	130	119	110	102	95	
1100	130	130	130	130	130	130	119	109	101	94		
1000	130	130	130	130	130	119	108	99	92			
900	130	130	130	130	119	107	98	90				
800	130	130	130	119	106	95	87					
700	130	130	119	104	93	84						

600 / 200

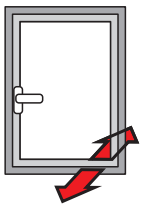
ADJUSTMENTS [mm]



Height:
+2.5 / -1



Side:
+1.5 / -1.5



Hinge compression:
+1.4 / -0.6

Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044241	CHIC - SASH HINGE SET	C001	RX	X				10
044242	CHIC - SASH HINGE SET	C001	LX	X				10



CHIC 130 SASH MECHANISM

Functions

Giesse Cremone and window handles can be used to operate a CHIC 130 sash.
For space and design reasons, we recommend the use of the SUPRA 7 hammer, an innovative reversible mechanism system without washer, which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins.

Online data sheet

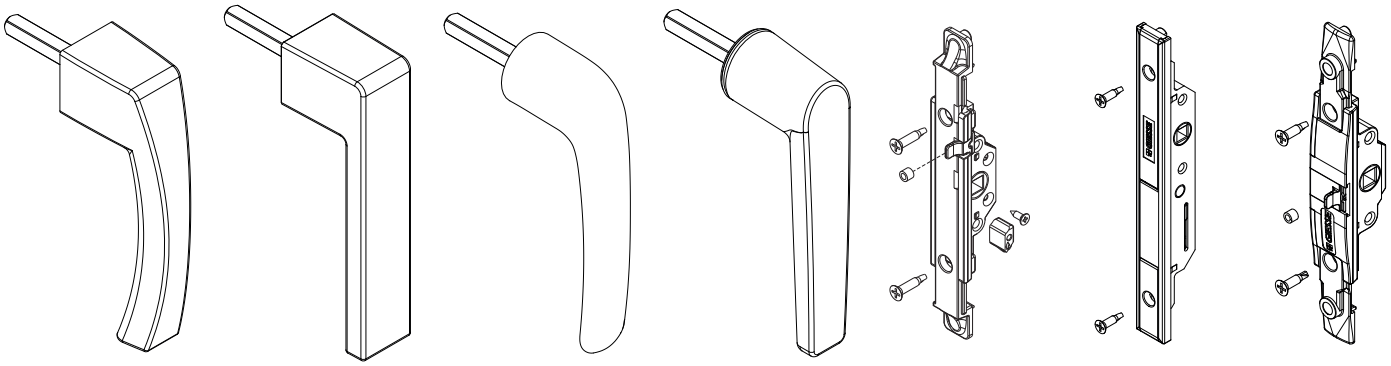
Technical Features

Supra 7 window handles can be combined with Giesse sash drives and mechanisms and have a rotor with a 7 mm square hole.
They are available in four styles: ARIA, ASIA, KORA and PRIMA.
Two movements are available:
• 0102001 for standard profiles (11.1 mm backset) two-way
• 00949 for minimal profiles (3.5 mm backset), one-way
• 0106101 for standard profiles (11.1 mm backset) one-way

Materials

Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

04153 04154 04155 04156 00949 0102001 0106101



Item code	Description	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04153	SUPRA 7 - ASIA MECHANISM	X		X	X	10
04154	SUPRA 7 - KORA MECHANISM	X		X	X	10
04155	SUPRA 7 - PRIMA MECHANISM	X		X	X	10
04156	SUPRA 7 - ARIA MECHANISM	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	Finish	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00949	ONE-WAY MECHANISM M180	-	GS Silver Plus	X				10
0102001	TWO-WAY INTERNAL MECHANISM	C001-C002-C003-C004-C005-C006-C009-C010-C012-C013-C014-C015-C016-C017-P001-P002-P004-P005-P006-P007-P008-P009-P010	GS Silver Plus	X				5
0106101	ONE-WAY MECHANISM	-	GS Silver Plus	X				10



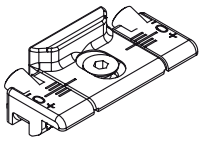
CHIC 130 SASH FASTENERS

Functions

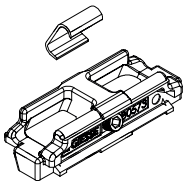
Depending on the fastening system (one-way or two-way), different fastening components such as terminals or pawls and their corresponding strikers are available.

Online data sheet

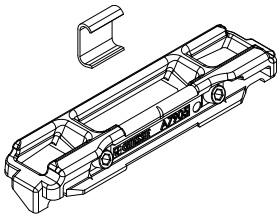
01347K



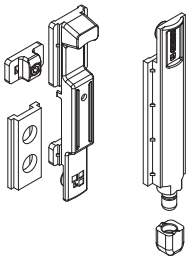
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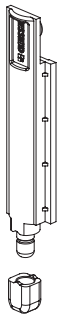
01349K



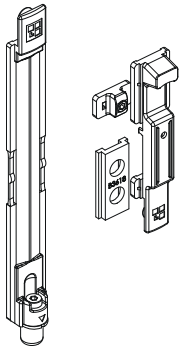
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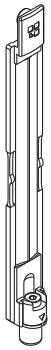
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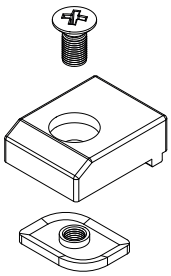
02168K



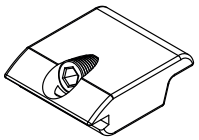
02188K



02309



02336



04027K



Item code	Description	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01347K	STRIKER	X				200
01348K	STRIKER	X				100
01349K	STRIKER	X				100
02111K	GIAP BOLT	X				50
02114K	TERMINAL FOR RODS	X				50
02168K	FUTURA ADJUSTABLE BOLT	X				10
02188K	FUTURA ADJUSTABLE TERMINAL	X				40
02309	SASH SUPPORT PLUG	X				100
02336	SASH SUPPORT PLUG	X				500
04027K	FUTURA FIXED PAWL	X				200

GIESSE - BALCONY DOOR



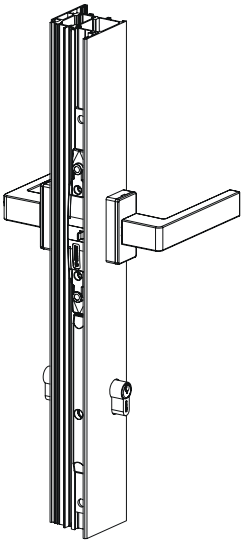
Functions

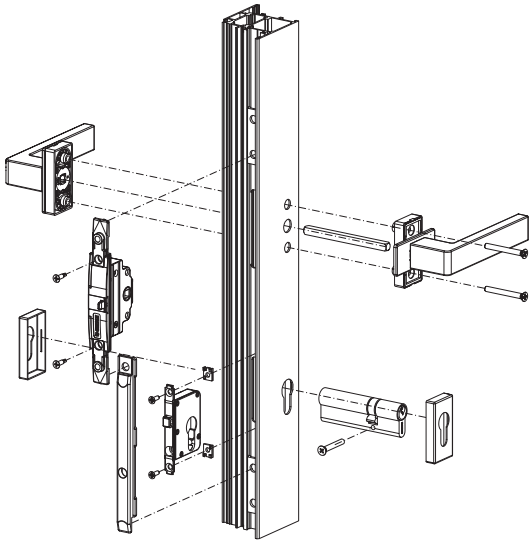
Tilt-and-turn balcony door, which can also be operated from the outside.
If required, it can also be fitted with a lock to increase security.
Especially suitable for terraces or patios.

Technical Features

The tilt-and-turn balcony door is available for both traditional FUTURA and concealed CHIC mechanism, and is operated using standard or SUPRA 7 GIESSE (double) window handles.
As a replacement for the traditional movement, the 32 mm backset must be used, which allows for the application of the double window handle.
If required, the lock makes the system more secure.
The following is required to make a tilt and turn sash on a Balcony door:

- CHIC or FUTURA hinges and arms
- tilt-and-turn mechanism with M180 movement 32 mm backset
- SUPRA 7 double window handles
- 32 mm backset lock





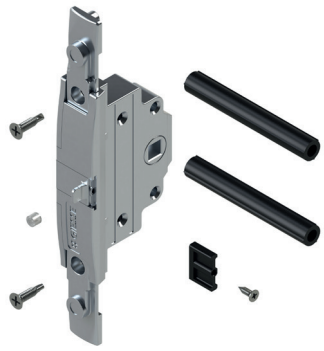
CONFIGURATION EXAMPLES

Balcony Door FUTURA 130 configuration

Article	Qty	Item code
SUPRA 7 double window handle	1 pc.	04395 - 04396 - 04397 - 04398
T&T mechanism	1 pc.	00947 or 04704 + 00945
Lock	1 pc.	00946
Hinges	1 pc.	04711
Arms	1 pc.	04284 - 04285
Cylinder	1 pc.	see DOOR CYLINDERS

Balcony Door CHIC 100 configuration

Article	Qty	Item code
SUPRA 7 double window handle	1 pc.	04395 - 04396 - 04397 - 04398
T&T mechanism	1 pc.	00947 or 04704 + 00945
Lock	1 pc.	00946
Hinges + arm kit	1 pc.	043551/043552 - 043561/043562
Cylinder	1 pc.	see DOOR CYLINDERS



MOVEMENT M180 BACKSET 32 MM

Functions

One-way mechanism, operated by window handle, to be inserted in the tubular section of the profile for the movement of GIESSE tilt-and-turn and turn-only sash closing mechanism.

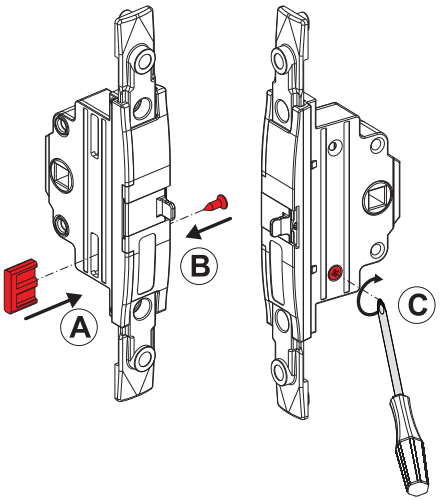
Online data sheet

Technical Features

The movement is reversible and can be combined with all conventional GIESSE and SUPRA 7 window handles.
The 32 mm backset allows to apply the window handle from the outside and consequently the sash can also be operated from the outside.
Combined with lock 00946, it allows the construction of balcony door casements with turn-only and tilt-and-turn sashes.
Designed for application on tilt-and-turn sashes, it can be applied on the turn-only sash by limiting the rotation of the handle to 90° by means of a specific stop component.
Both the T&T mechanism complete with 00947 movement as well as the 00947 movement to be combined with the T&T mechanism 04704 are available if already in stock.

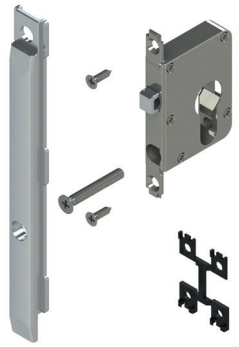
Materials

Rack, case, incorrect movement safety device slide, cover for mechanism and gear in die-cast zamak.
Shims in black polyamide.
Screws and spring of zinc-nickel plated steel.



Item code	Descriptions	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00945	M180 ONE-WAY MOVEMENT	to be combined with 04704	X				5

Item code	Descriptions	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10



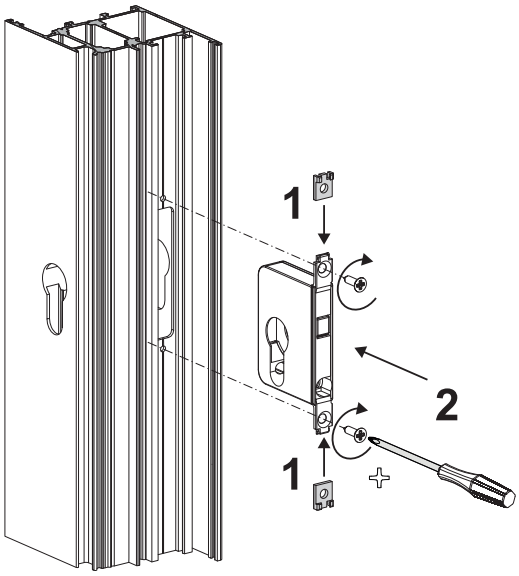
LOCK FOR BALCONY DOOR

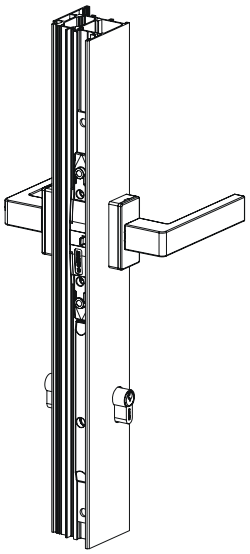
Functions
A lock which, when combined with the 32 mm backset movement, makes it possible to create so-called turn-only and tilt-and-turn balcony door sashes.

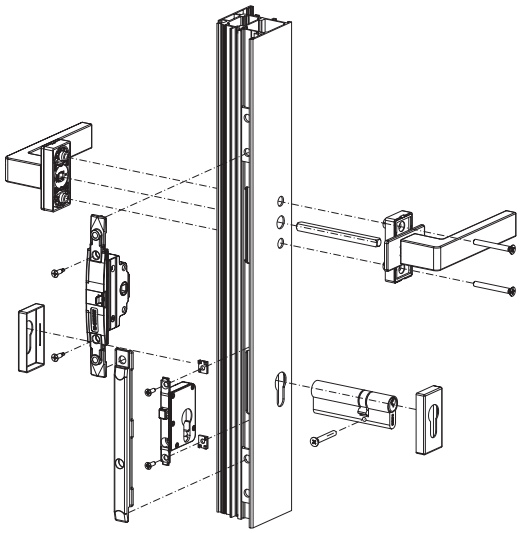
Online data sheet

Technical Features
The lock is reversible and can be combined with the 00945 movement (32 mm backset) and all traditional GIESSE and SUPRA 7 window handles.
This lock can be fitted on both turn-only and tilt-and-turn sashes and thanks to the 32 mm backset allows the application of Giesse cylinders (European profile) and consequently the sash can also be locked from the outside.

Materials
Lock body and movable component in die-cast zamak.
Shims in black polyamide.
Screws with Zi-Ni finish.







Item code	Descriptions	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00946	LOCK FOR TILT-AND-TURN WINDOW		X				5



SUPRA 7 - DOUBLE WINDOW HANDLES

Functions

Innovative double mechanism system without washer which can be used for moving window sashes with different types of opening, having mechanisms compatible with 7 mm square pins and which can be combined with all Giesse products having the same design.

Online data sheet

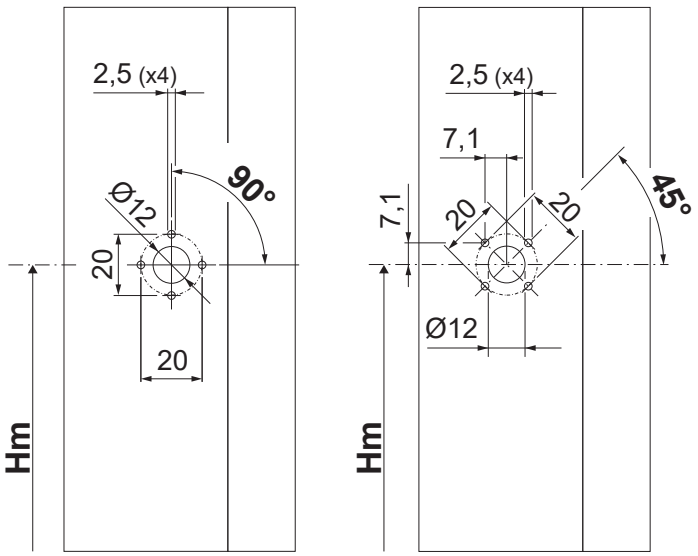
Technical Features

The Supra 7 double window handles can be combined with the Giesse sliding casement and side-hung sash movements and mechanisms which have a rotor compatible with 7 mm square pins.
The product, due to its exclusive design, can be combined with all the other Giesse products having the same design intended for other types of sashes (door, handles for lift-and-slide etc.).
Products applicable on sash with profiles wide from 26 to 85 mm.

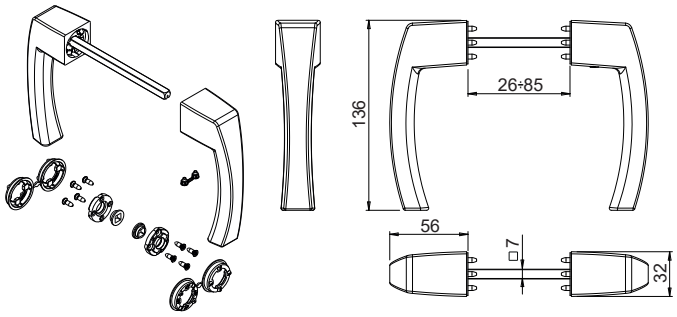
Materials

Handle in die-cast aluminium
Internal components made of GS SILVER PLUS zamak, zinc plated steel and white polyamide
Zinc plated steel fixing screws, with Eslock treatment

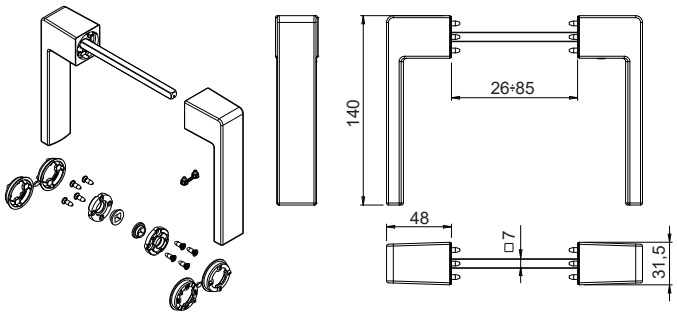
Fixing with 45° or 90° machining



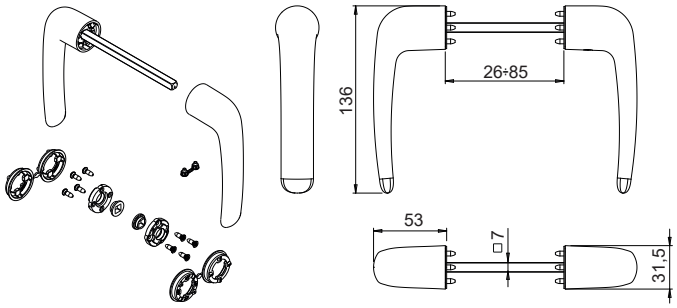
04395



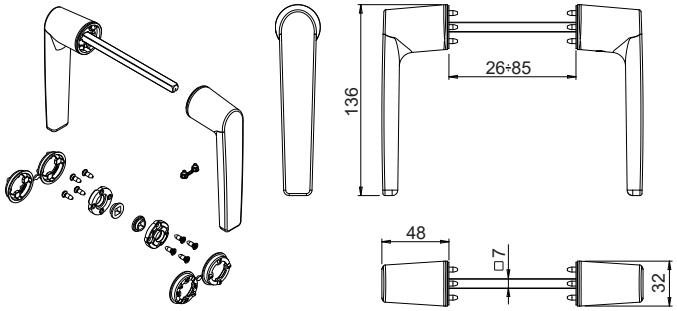
04396



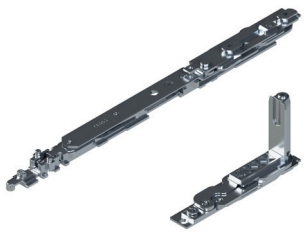
04397



04398



Item code	Description	Type of pin (mm)	Pin length (mm)	Sash width (mm)	Pull handle 0°	Pull handle 90°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04395	SUPRA 7 - ASIA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04396	SUPRA 7 - KORA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04397	SUPRA 7 - PRIMA DOUBLE WIN-DOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5
04398	SUPRA 7 - ARIA DOUBLE WINDOW HANDLE	7	112	26 ÷ 85	Closed	Open	X		X	X	5



CHIC 100 TILT-AND-TURN HINGES AND ARMS

Functions

Hinge kit (upper and lower), completely pre-assembled and ready to be installed on the profile.

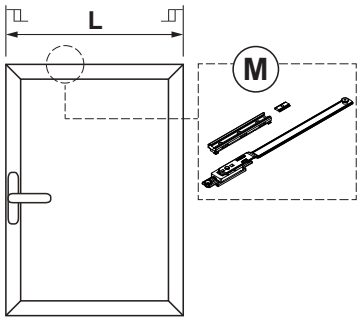
Online data sheet

Technical Features

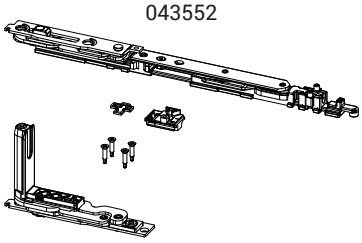
They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

Materials

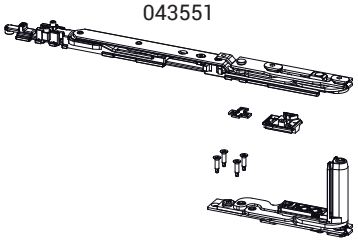
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel



043552

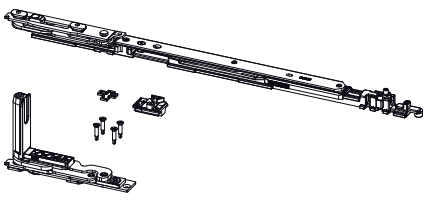


043551

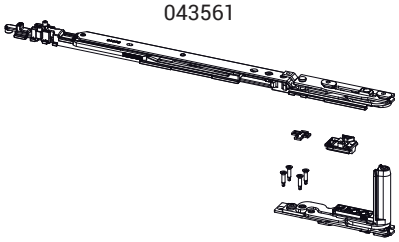


T2		T2		T2+M
T1	T1	T1	T1+M	
680	805	1000	1130	1600
L				

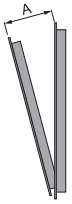
043562



043561



Sash opening



Item code	Description	PROFILE CROSS - SECTION	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C005-C006	98	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C005-C006	148÷178	LX	X				10



FUTURA 3D 130 HINGES AND ARMS

Functions

Futura 3D 130 tilt-and-turn hinge set (upper and lower) and arm.

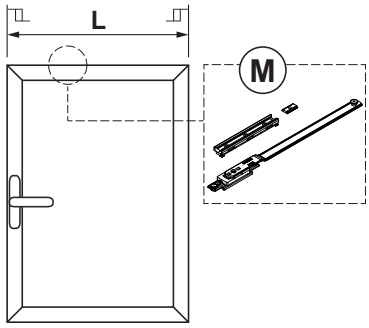
Online data sheet

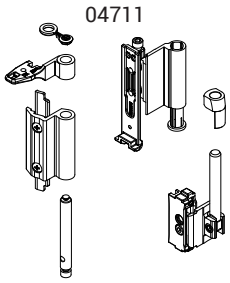
Technical Features

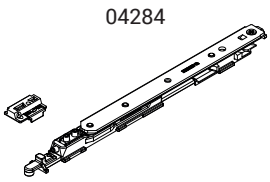
Hinges: hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.
Arms: allow tilt-and-turn opening in conjunction with tilt-and-turn hinges and mechanisms.

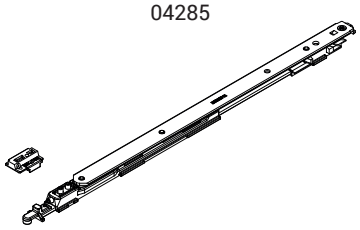
Materials

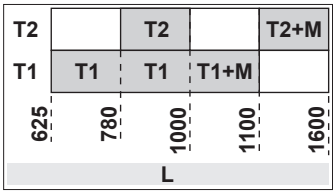
Hinges:
• Body of hinges in extruded aluminium and brass
• Supports in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Pins, screws and grub screws in stainless steel
Arms:
• Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h corrosion resistance)
• Rod, connecting bracket, grub screws and screws in stainless steel
• Stop disk in polyamide



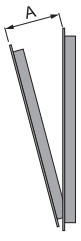








Sash opening



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C003-C005-C006	X		X	X	10

Item code	Description	PROFILE CROSS - SECTION	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04284	ARM T1 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	120					10
04285	ARM T2 130 WITH MICROVENTILATION	C001-C002-C003-C015-C016-C017	175					10

OS OPERATOR



Functions

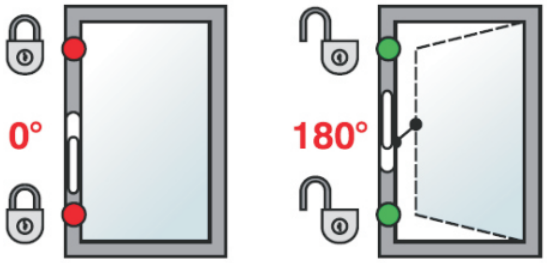
Complete system of opening, closing and multilocking, for top hung and side hung outward opening casement windows.

Technical Features

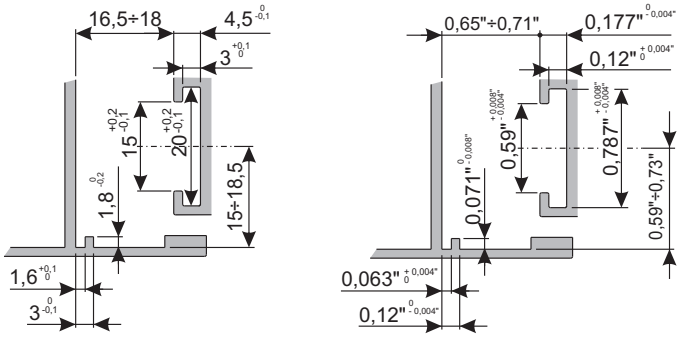
The OS Operator system to be applied requires a specific profile cross-section.
OS Operator has a push/pull force of 50 Nm.
The OS Operator System performs a dual function:
1. The sash is moved from the closed position to the open position, limited in safety.
2. The locking points engage and disengage.
Making the OS Operator casement always requires:
• Unica Cremone for OS Operator (1 pc)
• OS Operator fastening mechanism (1 pc)
• Arm for OS Operator (1 pc)

Possible dimensions

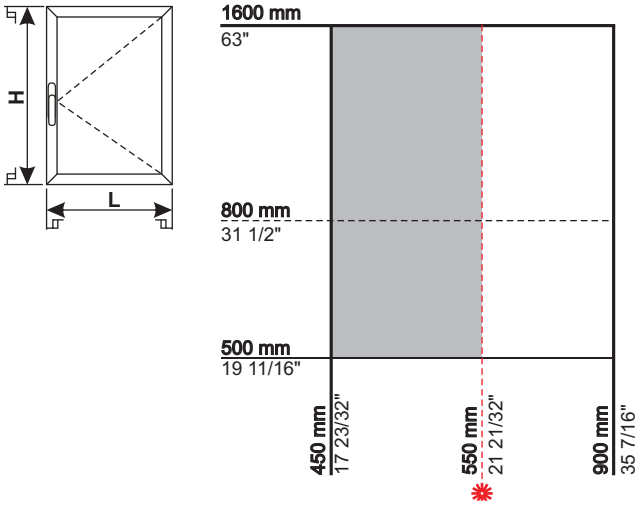
They are determined by the overall dimensions of the mechanism (standard and reduced)



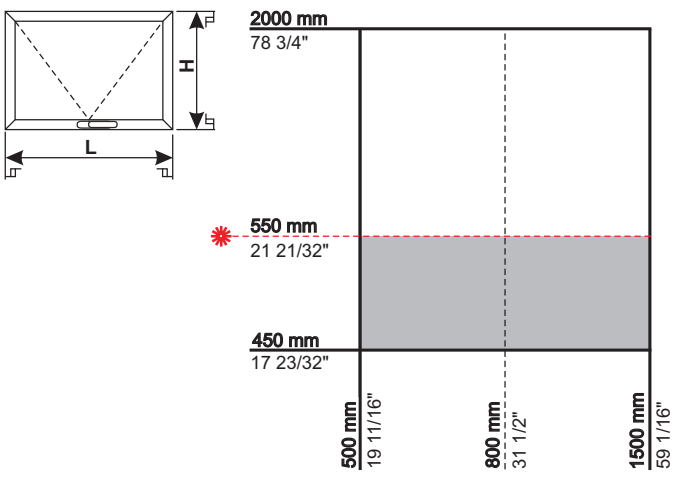
OS OPERATOR type profile cross-sections



* If this dimension is <= 550 mm, use Loose Rivet swing-out arms for supporting the sash



* If this dimension is <= 550 mm, use Loose Rivet swing-out arms for supporting the sash





UNICA OS OPERATOR CREMONE

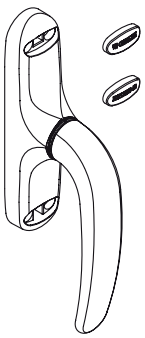
Functions
Unica line Cremone, dedicated to the OS OPERATOR mechanism.

Online data sheet

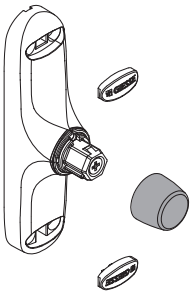
Technical Features
Compared to the standard cremones, these rotate with positioning notches at 0° and 180°.
Turning the pull handle of the cremone to 180° first unlocks the locking points (approximately 60°) and then takes the sash into the position of maximum opening (trip to 180° of the cremone).
The high stresses to which the casement is subjected when opening and closing has meant that for OS Operator there is a complete range of specific cremones. In addition to the Unica standard cremone, Key, Away and long handle versions are available. In particular, the one with the long handle reduces the effort when opening the casement and makes operation smoother.
The rotor and slider of all OS operator cremones are made of stainless steel to ensure maximum mechanical strength.
It is recommended to use the special gasket, made of black closed-cell foam adhesive on one side, which enables reducing the flow of air and water through the milling on the profile and the cremone case.

Materials
Handle in die-cast aluminium
Die-cast zamak cremone case
Internal rotor and slider in 304 grade stainless steel
Spring in harmonic steel
Black polyamide plate
Trip disc 0° - 180° in black polyamide

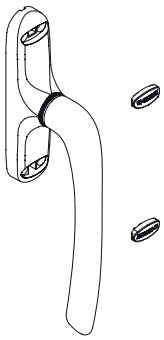
Unica OS Operator Cremone



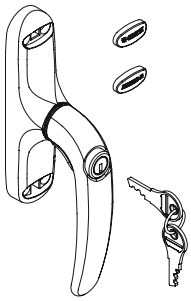
Unica Away OS Operator Cremone



Long pull handle Unica OS Operator Cremone



Unica Key OS Operator Cremone



Item code	Description	Version	Pull handle length	Handle match	Pull handle 0°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01127	CREM. UNICA OS OPERATOR - AWAY	Away		01129	Closed	Open			X		10
01128	CREM. UNICA OS OPER. LONG HANDLE	Standard	172 mm		Closed	Open			X		10
01129	PULL HANDLE FOR UNICA AWAY	Away	172 mm	01127	Closed	Open			X		10
01171	UNICA OS OPERATOR CREMONE	Standard	121 mm		Closed	Open			X		10
01172	UNICA KEY OS OPERATOR CREMONE	Key	121 mm		Closed	Open			X		10
06951	UNICA CREM. GASKET						X				100



OS OPERATOR MECHANISMS

Functions

Two-handed mechanism that moves the sash of a Top or Side Hung aluminium casement, creating 2 locking points on the casement.

Online data sheet

Technical Features

The mechanism is available in two versions:
• standard (overall size of mechanism 725 mm)
• reduced for small doors (overall size of mechanism 466.5 mm) available both left and right.
For particularly high side hung windows or very wide top hung windows it is possible to connect the extension to both sides of the mechanism.

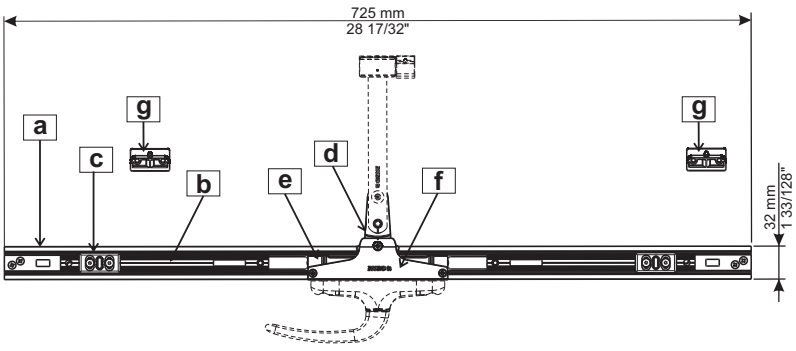
Locking point adjustment

You can adjust the 2 locking points both in compression (± 3.2 mm) and side (± 3 mm).

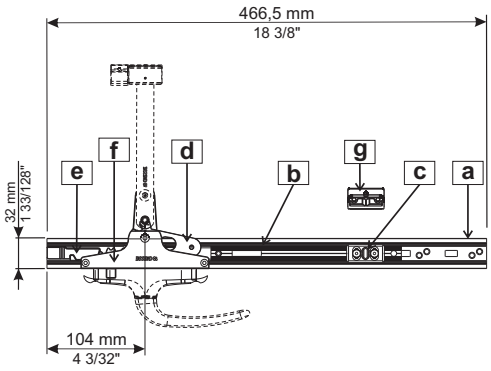
Materials

a) Main body (guide), in extruded aluminium, silver anodized
b) Internal rod, in extruded aluminium, silver anodized
c) Adjustable pawl, in zamak, Giesse Silver Plus
d) Pinion, in 304 grade stainless steel
e) Rack drive rod, in 304 stainless steel
f) Casing, in Giesse Silver Plus zamak
c) Frame striker, in zamak, Giesse Silver Plus
Fixing screws in 304 grade stainless steel

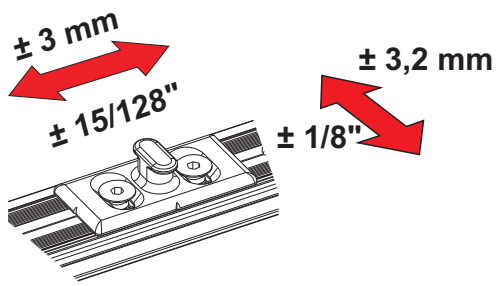
Standard mechanism



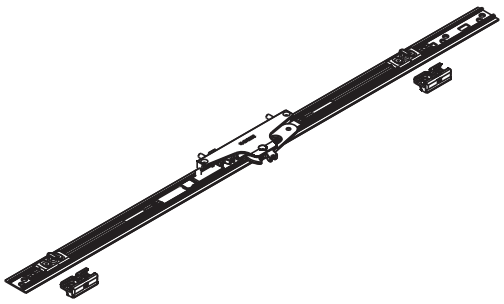
Reduced mechanism



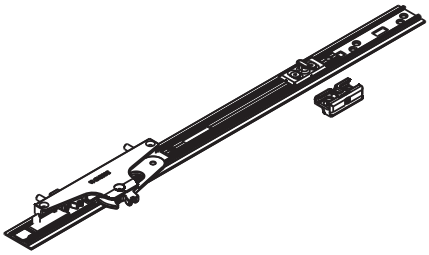
Locking point adjustment



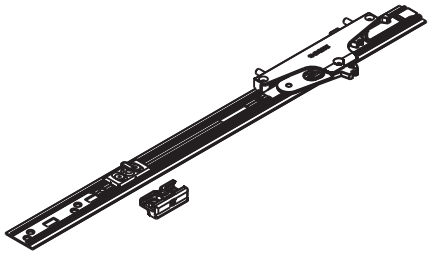
Standard mechanism



Right-hand reduced mechanism



Left-hand reduced mechanism



Item code	Description	Version	Hand	Length	Symmetric	Locking points	Extension	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02000	OS OPERATOR MECHANISM	Standard	RH - LH	725 mm	Yes	2	Above/below max 3 pieces (2+1)	X				10
020021	OS OPERATOR MECHANISM	Reduced	RX	466.5 mm	No	1	Only above max 2 pieces	X				10
020022	OS OPERATOR MECHANISM	Reduced	LX	466.5 mm	No	1	Only above max 2 pieces	X				10



EXTENSIONS

Functions

350 mm (13 25/32") extension for use with an OS Operator mechanism to create a supplementary locking point.

Online data sheet

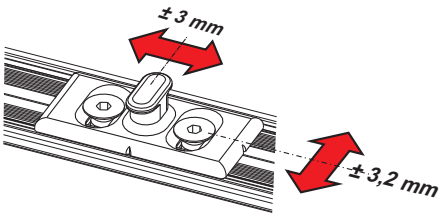
Technical Features

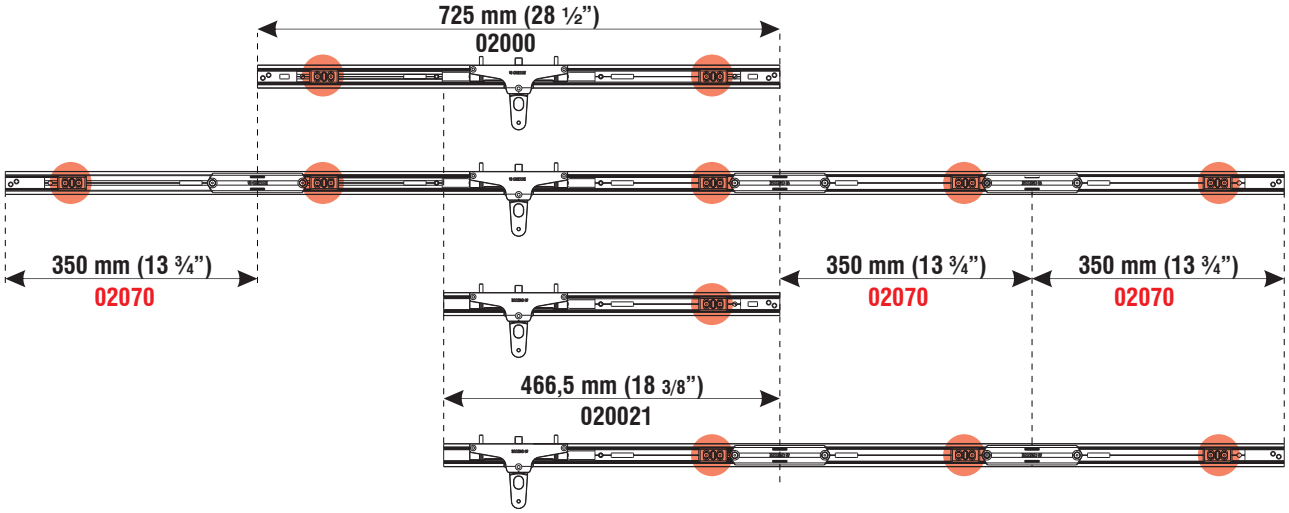
Fixing to the frame profile is done with the self-tapping screws supplied and connecting to the mechanism is done with a connection element.
The pawl on the extension can be adjusted.

Materials

Polyamide joint
Extension in extruded aluminium
Adjustable pawl and striker in zamak
Stainless steel screws, grub screws and fixing plates

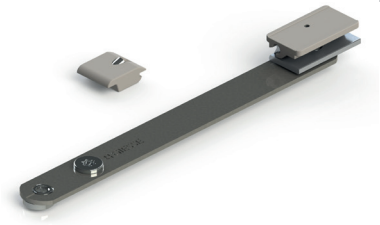
Locking point adjustment





Item code	Description	Length	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02070	OS OPERATOR EXTENSION	350 mm	02000 02002 1 02002 2	X				10

OS OPERATOR ARMS



Functions

The arm for OS Operator performs the function of pushing the sash from the "sash closed" position to the "fully open" position and vice versa.

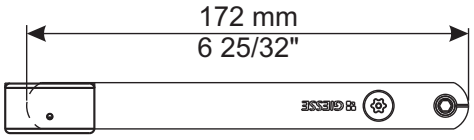
Online data sheet

Technical Features

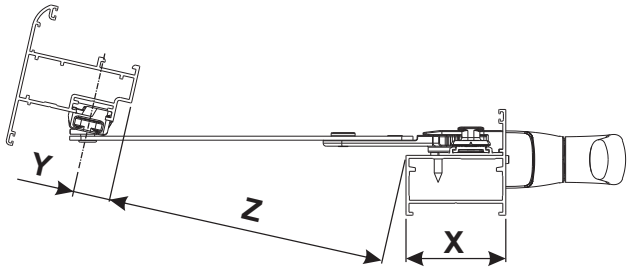
Available in two lengths (172 mm and 152 mm), The arm is attached to an OS Operator mechanism using the screw with security head Torx T30 (A).
The slider, available in both polyamide and aluminium, runs in the 15/20 mm channel on the mobile sash. A polyamide stop component provides the limit stop position.
You can, with the aid of the eccentric pin (B), using a T30 torx wrench, adjust the position of the slider and then obtain the optimal position for the sash during the phase of activating the locking points.

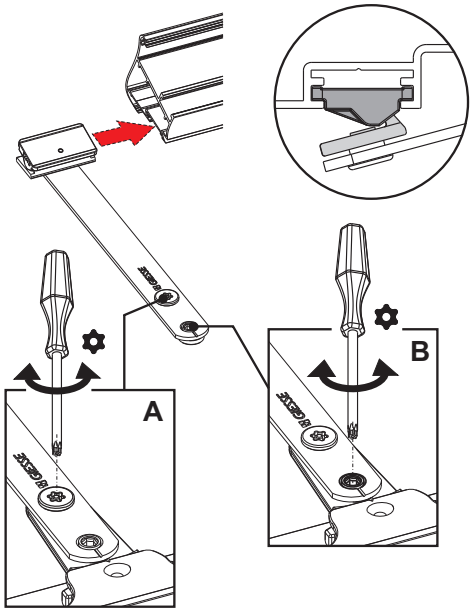
Materials

Arm in stainless steel 304
Slider in extruded aluminium or grey polyamide
Grey polyamide stop



Z = Distance between the profiles (see table)





Item code	Description	Length	Slider material	Stack between profiles Z	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02064	ALUMINIUM OS OPERATOR ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02065	ALUMINIUM OS OPERATOR ARM	152 mm	Aluminium	190 mm - X - Y	X				10

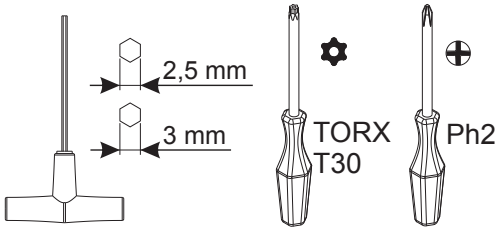


OS OPERATOR TOOLS

Functions
Tool kit for correctly assembling the Os Operator

Online data sheet

Technical Features
The kit includes all the necessary tools, especially the Torx T30 security wrench.
The kit consists of:
- Allen wrench 2.5 mm and 3 mm
- Torx T30 security insert
- ph 2 insert



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02003	TOOL KIT FOR OS OPERATOR		X				20

CONFIGURATION EXAMPLES

OS Operator Top-Hung Configuration

Sash height [mm]	450 ÷ 2000	450 ÷ 2000
Sash width [mm]	500 ÷ 800	801 ÷ 1500
Cremone	01128 - 01171	01128 - 01171
Mechanism	020021 - 020021	02000
Arms	02054 - 02055 - 02064 - 02065	02054 - 02055 - 02064 - 02065

OS Operator Side-Hung Configuration

Sash height [mm]	450 ÷ 900	450 ÷ 900
Sash width [mm]	500 ÷ 800	801 ÷ 2500
Cremone	01128 - 01171	01128 - 01171
Mechanism	020021 - 020021	02000
Arms	02054 - 02055 - 02064 - 02065	02054 - 02055 - 02064 - 02065

OS OPERATOR 2.0



Functions

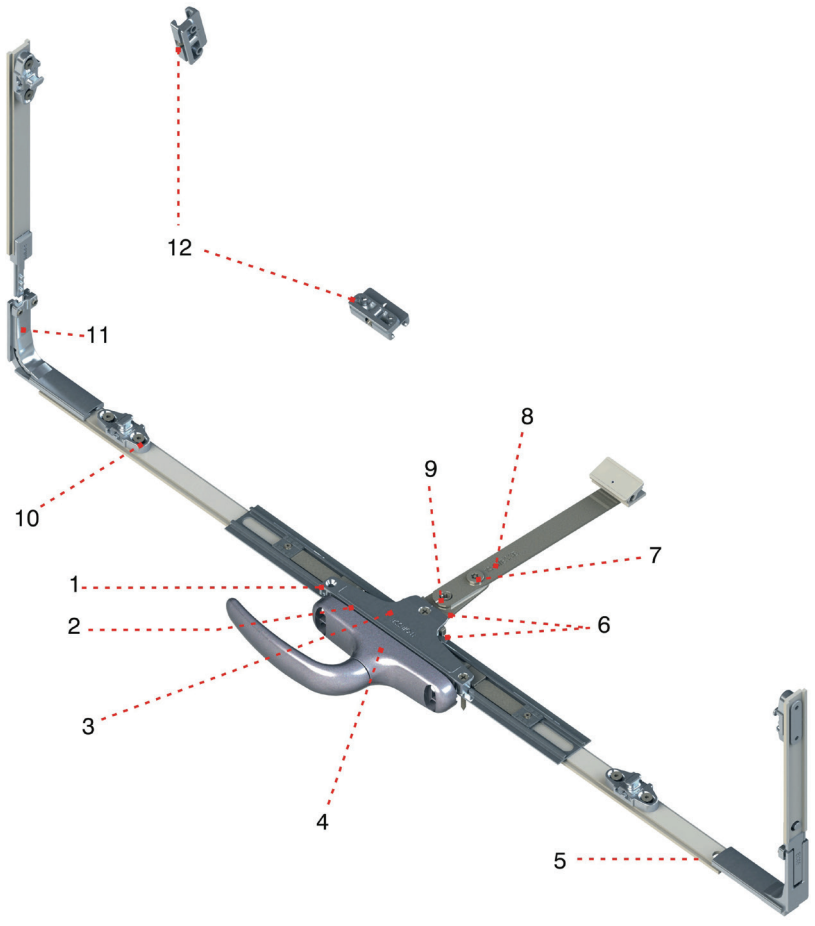
Complete system of opening, closing and multilocking, for top hung and side hung outward opening casement windows.

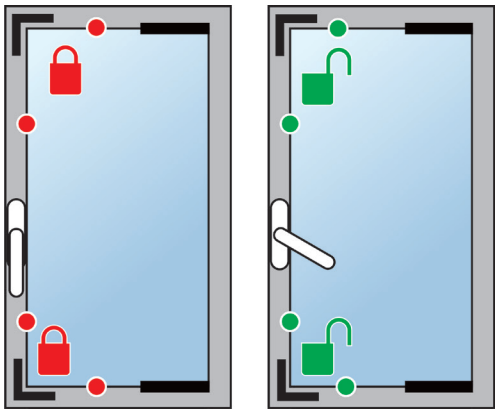
Technical Features

The OS Operator 2.0 system to be applied requires a specific profile cross-section.
The front force for opening the sash must be < 50 N.For forces > 35 N it is mandatory to use "loose rivet" arms.
The OS Operator System performs a dual function:
1. The sash is moved from the closed position to the open position, limited in safety.
2. The locking points engage and disengage.
With OS Operator 2.0 you can apply locking points connected by a rod made of polyamide, on 3 sides of the casement (mechanism side and arms side).
Making the OS Operator casement always requires:
- Cremone (1 pc)
- Mechanism (1 pc)
- Arm (1 pc)
- Locking points (their number varies depending on the size of the casement)
- Corner drive (2 pcs) if perimetral closing is necessary

Possible dimensions

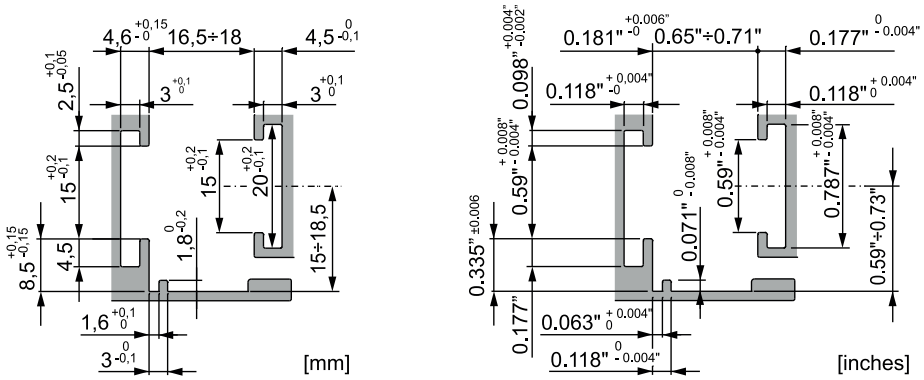
In particular, the minimum size will vary depending on the locking points used (see examples)



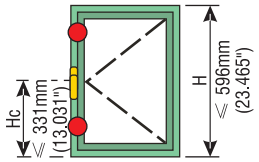
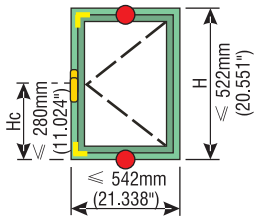
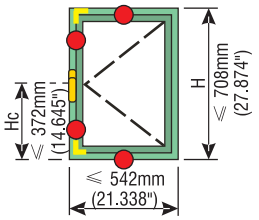
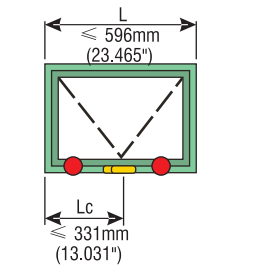
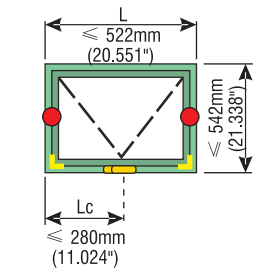
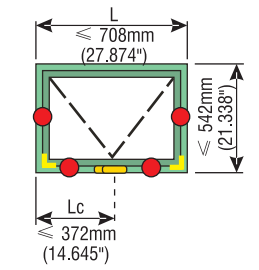


LEGEND
1 Basic mechanism
2 Unica cremone seal
3 Protective cover
4 Unica cremone
5 Polyamide rod
6 Mechanism gears
7 Arm release screw
8 Arm
9 Adjustment screws
10 Adjustable pawl (sash)
11 Corner drive
12 Fixed striker (frame)

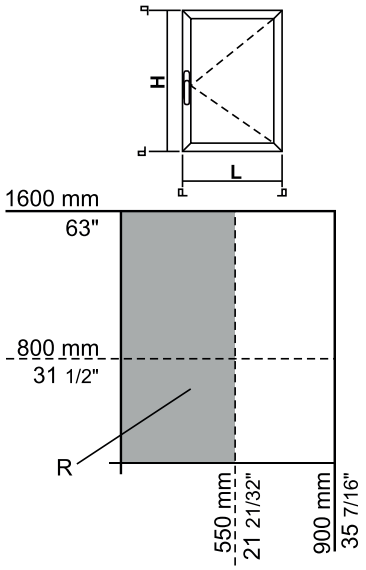
OS OPERATOR 2 type profile cross-sections



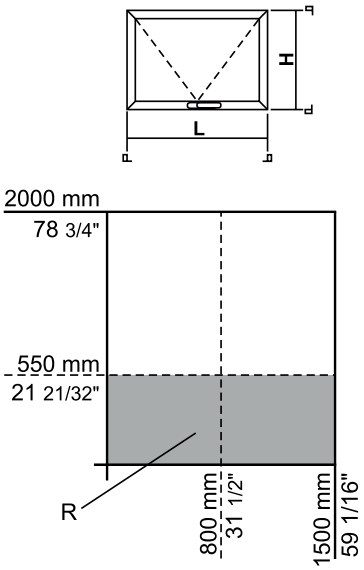
Minimum possible dimensions

Two locking points	Two locking points with corner drive	Four locking points with corner drive
		
		

R = use Loose Rivet swing-out arms for supporting the sash



R = use Loose Rivet swing-out arms for supporting the sash





UNICA OS OPERATOR CREMONE

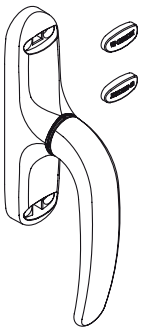
Functions
Unica line cremone, dedicated to the OS OPERATOR mechanism.

Online data sheet

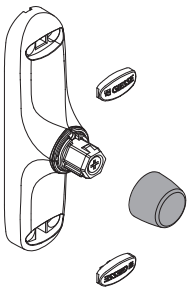
Technical Features
Compared to the standard cremones, these rotate with positioning notches at 0° and 180°.
Turning the pull handle of the cremone to 180° first unlocks the locking points (approximately 60°) and then takes the sash into the position of maximum opening (trip to 180° of the cremone).
The high stresses to which the casement is subjected when opening and closing has meant that for OS Operator there is a complete range of specific cremones. In addition to the Unica standard cremone, Key, Away and long handle versions are available. In particular, the one with the long handle reduces the effort when opening the casement and makes operation smoother.
The rotor and slider of all OS operator cremones are made of stainless steel to ensure maximum mechanical strength.
It is recommended to use the special gasket, made of black closed-cell foam adhesive on one side, which enables reducing the flow of air and water through the milling on the profile and the cremone case.

Materials
Handle in die-cast aluminium
Die-cast zamak cremone case
Internal rotor and slider in 304 grade stainless steel
Spring in harmonic steel
Black polyamide plate
Trip disc 0° - 180° in black polyamide

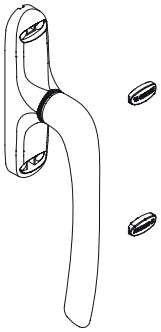
Unica OS Operator Cremone



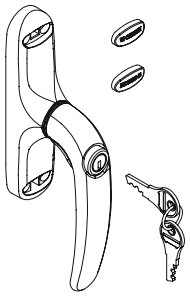
Unica Away OS Operator Cremone



Long pull handle Unica OS Operator Cremone



Unica Key OS Operator Cremone



Item code	Description	Version	Pull handle length	Handle match	Pull handle 0°	Pull handle 180°	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01127	CREM. UNICA OS OPERATOR - AWAY	Away		01129	Closed	Open			X		10
01128	CREM. UNICA OS OPER. LONG HANDLE	Standard	172 mm		Closed	Open			X		10
01129	PULL HANDLE FOR UNICA AWAY	Away	172 mm	01127	Closed	Open			X		10
01171	UNICA OS OPERATOR CREMONE	Standard	121 mm		Closed	Open			X		10
01172	UNICA KEY OS OPERATOR CREMONE	Key	121 mm		Closed	Open			X		10
06951	UNICA CREM. GASKET						X				100



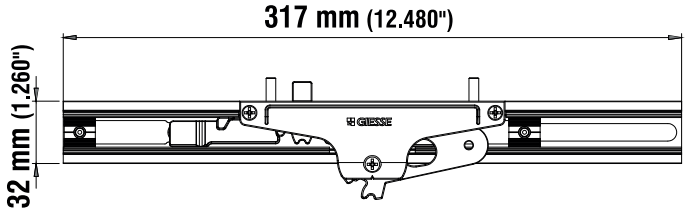
OS OPERATOR 2.0 MECHANISM

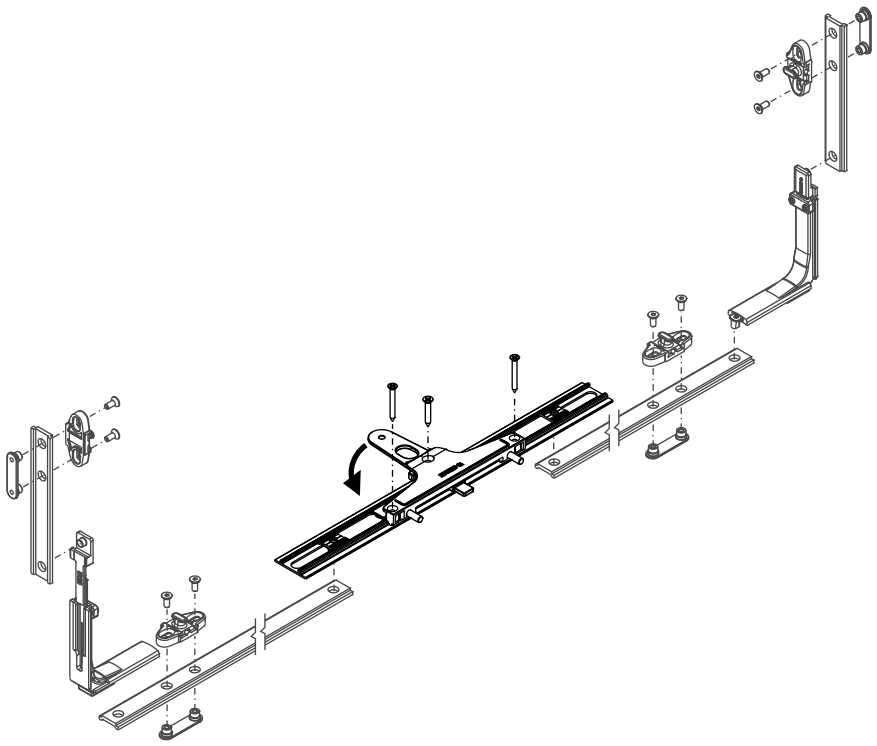
Functions
Reversible mechanism that moves the sash of a Top or Side Hung aluminium casement.

Online data sheet

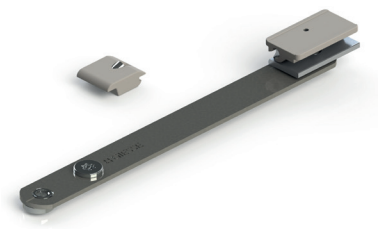
Technical Features
The mechanism is 317 mm long.
Acts as a link between the cremone and the opening arms.
Connected to the Giesse polyamide rod, it is used to move the locking points (applied on the rod) and/or corner drives in the case of perimetral closing mechanisms.

Materials
Main body (guide), made of extruded aluminium, silver anodised
Internal rod, in extruded aluminium, silver anodised
Pinion, in 304 grade stainless steel
Rack drive rod, in 304 grade stainless steel
Casing, in Giesse Silver Plus zamak
Fixing screws in 304 grade stainless steel





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02009	OS OPERATOR MECHANISM		X				10



OS OPERATOR 2 ARMS

Functions

The arm for OS Operator performs the function of pushing the sash from the "sash closed" position to the "fully open" position and vice versa.

Online data sheet

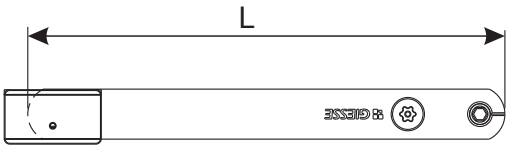
Technical Features

Available in various lengths), the arm is attached to an OS Operator mechanism using the screw with security head Torx T30 (A).
The slider, available in both polyamide and aluminium, runs in the 15/20 mm channel on the mobile sash. A polyamide stop component provides the limit stop position.
You can, with the aid of the eccentric pin (B), using a T30 torx wrench, adjust the position of the slider and then obtain the optimal position for the sash during the phase of activating the locking points.

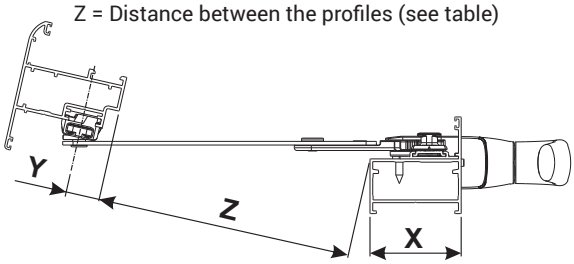
Materials

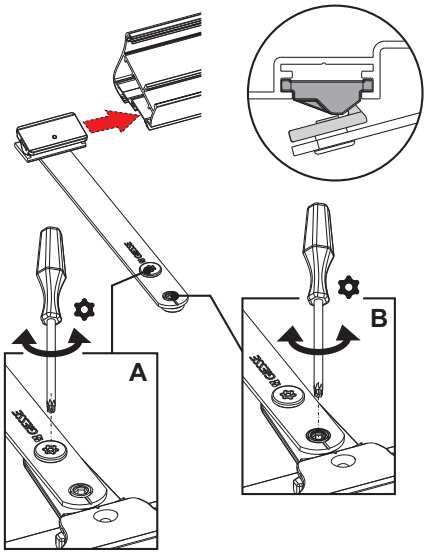
Arm in stainless steel 304
Slider in extruded aluminium or grey polyamide
Grey polyamide stop

L = Length (see table)



Z = Distance between the profiles (see table)





Item code	Description	Length	Slider material	Stack between profiles Z	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02056	OS OPERATOR HP ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02058	OS OPERATOR HP ARM	146 mm	Aluminium	184 mm - X - Y	X				10
02059	OS OPERATOR HP ARM	127 mm	Aluminium	165 mm - X - Y	X				10
02061	OS OPERATOR HP ARM	140 mm	Aluminium	178 mm - X - Y	X				10
02064	ALUMINIUM OS OPERATOR ARM	172 mm	Aluminium	210 mm - X - Y	X				10
02065	ALUMINIUM OS OPERATOR ARM	152 mm	Aluminium	190 mm - X - Y	X				10



OS OPERATOR CORNER DRIVE

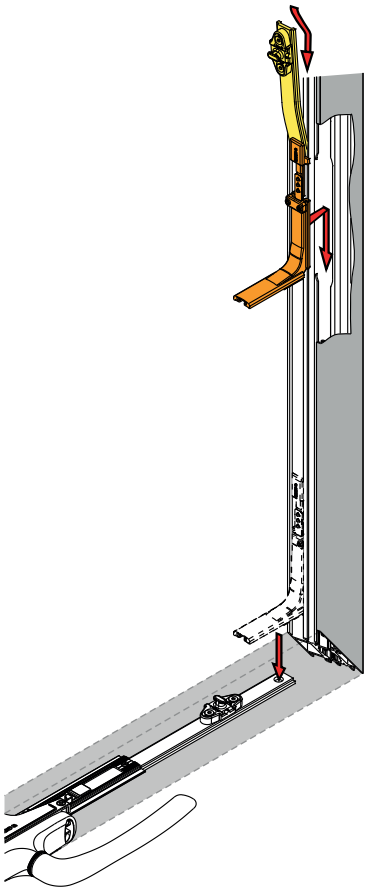
Functions
Component allowing the mechanism to move from the cross-beam to the upright of the casement and vice versa.

Online data sheet

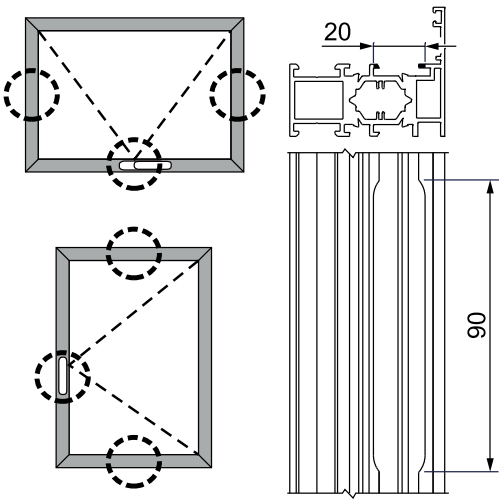
Technical features
Specific for fitting on the frame.
Fits on 15/20 channel.
It is installed after machining the frame or before the frame is assembled.
It is fixed with 2 contrast grubscrews and is joined to the other components with a polyamide rod.

Materials
Drive body and connection device made of Giesse Silver Plus
Plates and grub screws in stainless steel

Inserting in channel



Machining



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02066	CORNER DRIVE		X				10



OS OPERATOR FASTENING MECHANISM KIT

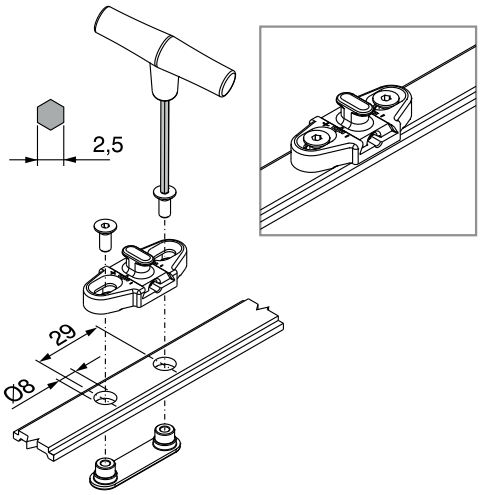
Functions
Fastening mechanism kit composed of a striker and an adjustable pawl.

Online data sheet

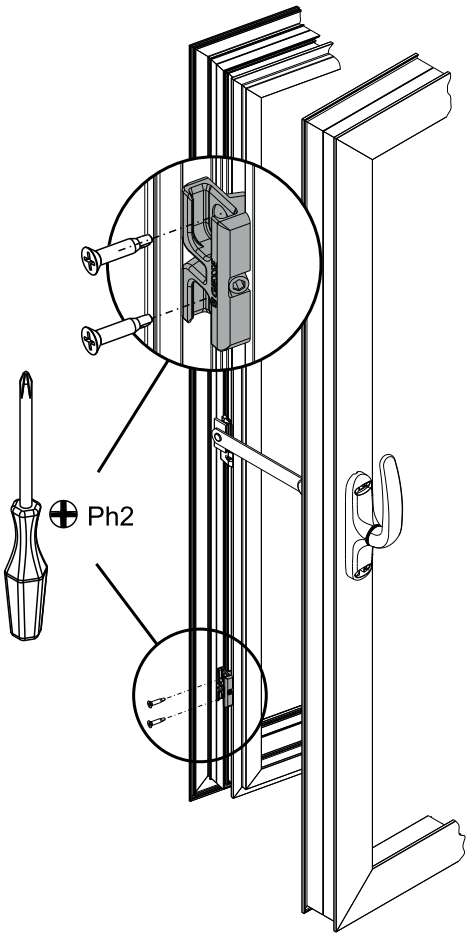
Technical features
The OS Operator 2.0 closing kit is composed of 2 components:
• Striker to be applied on the sash
• Adjustable pawl to apply on the polyamide rod
The system provides for an adjustment of +/-3.2 mm and laterally +/-3.0 mm with the aid of the pawl.
The system is designed for at most 6 locking points.

Materials
Striker body, pawl body, plate and adjustable element made of Giesse Silver Plus zamak
Screws and grub screws in stainless steel

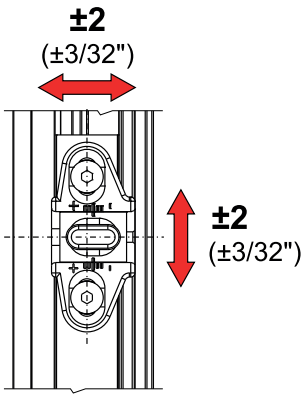
Pawl assembly



Striker assembly



Adjustment



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02067	LOCKING POINT		X				10

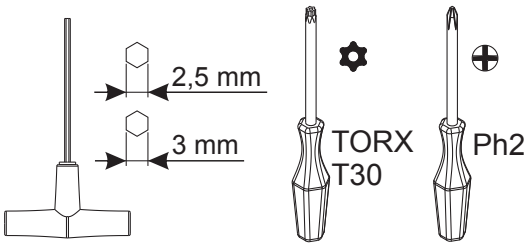


OS OPERATOR 2.0 TOOLS

Functions
Tool kit for correctly assembling the Os Operator

Online data sheet

Technical Features
The kit includes all the necessary tools, especially the Torx T30 security wrench.
The kit consists of:
- Allen wrench 2.5 mm and 3 mm
- Torx T30 security insert
- ph 2 insert



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02003	TOOL KIT FOR OS OPERATOR		X				20

CONFIGURATION EXAMPLES

Configuration of OS Operator 2.0 Top-Hung 2 locking points

Sash height [mm]	450 ÷ 2000
Sash width [mm]	596 ÷ 1500
Cremone	01128 - 01171
Mechanism	02009
Fastening mechanisms	02067 (2 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Top-Hung 4 locking points

Sash height [mm]	542 ÷ 2000
Sash width [mm]	708 ÷ 1500
Cremone	01128 - 01171
Mechanism	02009
Drive	02066 (2 pcs)
Fastening mechanisms	02067 (4 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Side-Hung 2 locking points

Sash height [mm]	596 ÷ 1600
Sash width [mm]	450 ÷ 900
Cremone	01128 - 01171
Mechanism	02009
Fastening mechanisms	02067 (2 pcs)
Arms	02054 - 02055 - 02064 - 02065

Configuration of OS Operator 2.0 Side-Hung 4 locking points

Sash height [mm]	704 ÷ 1600
Sash width [mm]	450 ÷ 900
Cremone	01128 - 01171
Mechanism	02009
Drive	02066 (2 pcs)
Fastening mechanisms	02067 (4 pcs)
Arms	02054 - 02055 - 02064 - 02065

JALOUSIE



Functions

Opening system for Jalousie casements featuring a fixed frame on which are mounted cremone adjustable slats.
Jalousie windows are ideal for verandas, terraces and other places where the user wishes to be able to ventilate the interior without opening the window.

Technical Features

The system consists of a set of accessories that combined together enable operating the adjustable slats.
The window slats can be in aluminium or glass, depending on the application.
Up to 6 can be moved with the cremone. For casements with more than 6 slats you need to use 2 cremones.
Components of the system (in the case of 6 slats)

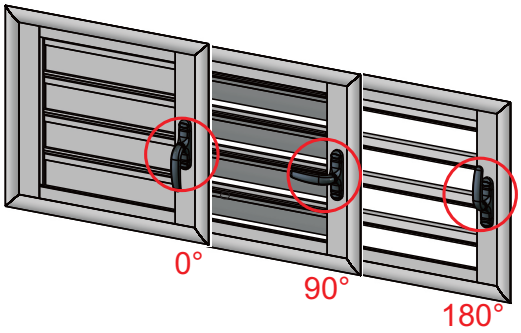
- UNICA Cremone (no. 1 pc)
- Cam (no. 12 pcs)
- Slat container (no. 6 pcs)
- Pack screw (no. 12 pcs)
- Transmission pin (no. 12 pcs)

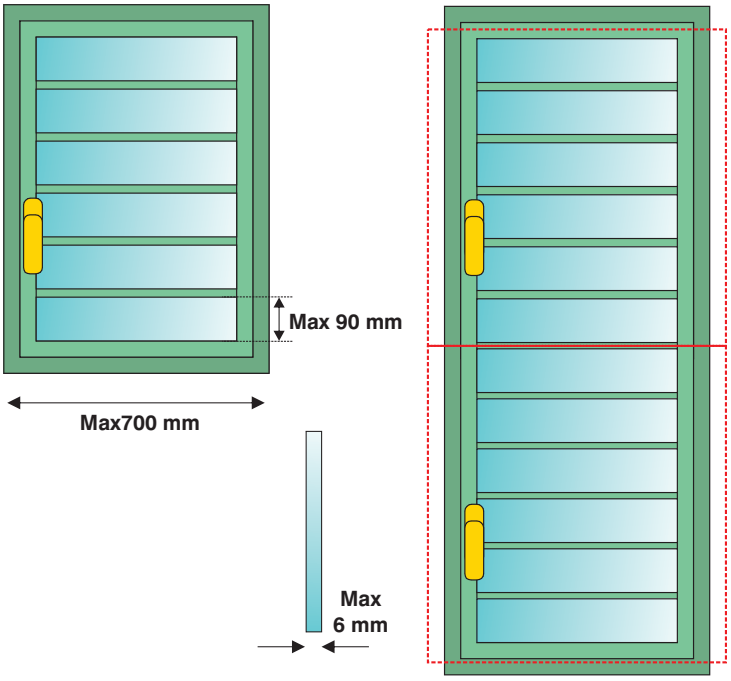
The cremone handle can be set to adjust the slats to fully closed, ventilation, or fully open.

- Cremone 0° - Slats closed
- Cremone 90° - Slats open in ventilation position
- Cremone 180° - Slats fully open

Possible dimensions

- Maximum glass thickness 6 mm
- Maximum distance between slats 90 mm
- Maximum sash width 700 mm







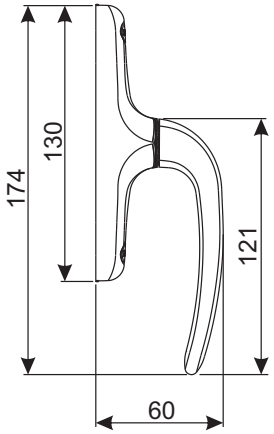
UNICA CREMONE FOR JALOUSIE

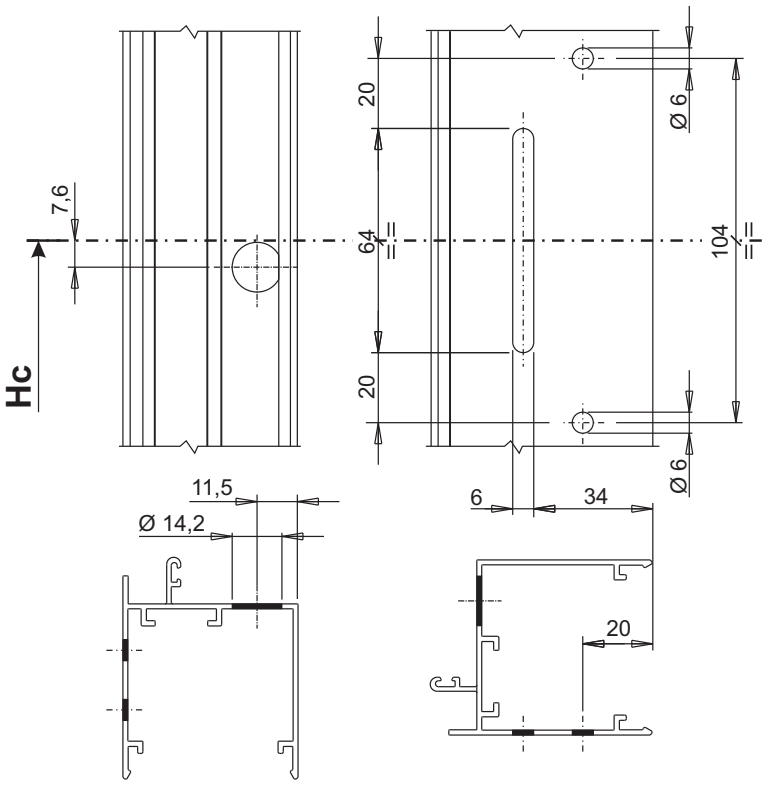
Functions
Specific Cremone for the Jalousie system.

Online data sheet

Technical Features
Controls opening the slats that depending on the position of the pull handle may be in the closed, ventilation or fully open position.

Materials
Handle in die-cast aluminium
Case, gear and sliding parts in zinc plated zamak
Polyamide plate
Stainless steel fixing screws





Item code	Description	Operation	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01987	UNICA CREMONE FOR JALOUSIE	one-way			X		10



JALOUSIE COMPONENTS

Functions

Operated by the Unica Cremone, the Jalousie components enable operating the hardware and opening and closing the slats.

Online data sheet

Technical Features

The system must be connected with an aluminium rod for the European groove and is composed of:

1 - Cam

Connected to the rod via the transmission pins it allows the slats to move.
Made of punched aluminium.

2 - Slat container (pair)

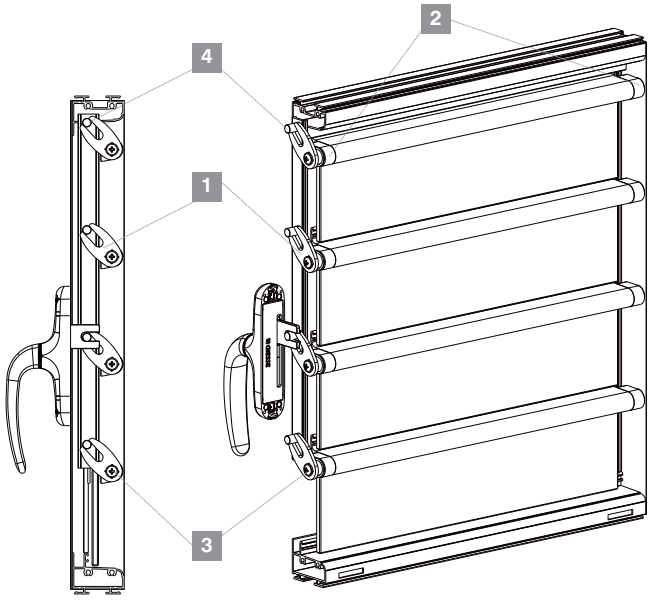
Sized to accommodate the swivel slat.
Blocks in black painted die-cast zamak and washers in black polyamide.

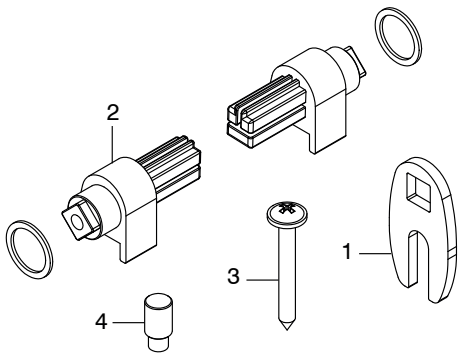
3 - Slat-cam packing screw

Enables fixing together the cam and the slat container. Made of stainless steel.

4 - Transmission pin

It transmits the movement from the cremone to the connection rod and to the cam.
Made of stainless steel.





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01984	CAM FOR JALOUSIE SYSTEM (1)		X				100
01985	SLAT CONTAINER (RIGHT AND LEFT) (2)	pair			X		100
01986	SLAT-CAM PACKING SCREW (3)		X				100
01988	DRIVE PIN (4)		X				100

CONFIGURATION EXAMPLE

Jalousie Configuration (max. 6 slats)

Maximum sash width [mm]	700	-
Cremone	01987	N° 1
Cam	01984	N° 12
Slat container	01985	N° 6
Screw	01986	N° 12
Drive pin	01988	N° 12

PROVENCE

Functions

Fastening system with cremone and rods with front fixing, designed for making fastening mechanisms for inward or outward opening casement windows, applicable on profiles of any material, aluminium, wood, PVC.

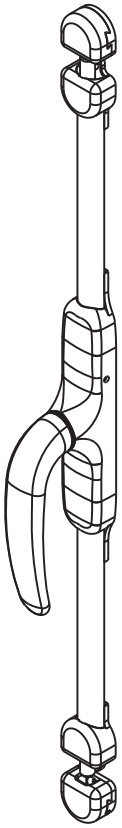
Technical Features

Provence is ideal for creating old-style windows, thanks to its careful design featuring rods in full view.
Applicable on both inward-opening and outward-opening casements:
• Inward opening casement: flush and overlap (7-10 mm)
• Outward opening casement: both with and without frame, flush inside and overlap (7-10 mm).

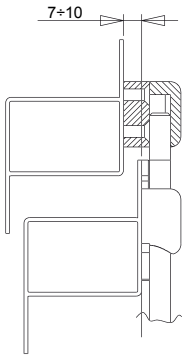
Making a casement with PROVENCE requires:

• Cremone (1 pc)
• Lock rod (2 pcs)
• Bolt tips (2 pcs)
• Strikers (2 pcs)

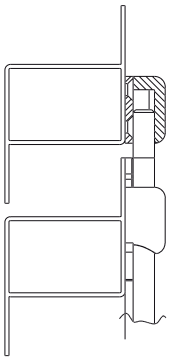
All the elements are revealed and specific to this system.



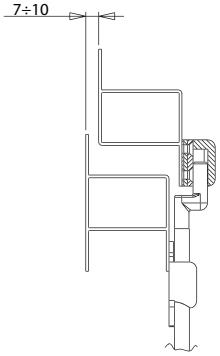
Inward opening with overlap



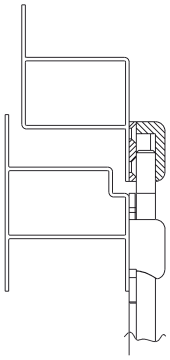
Flush inward opening

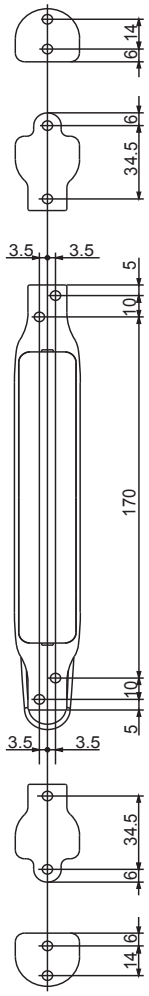


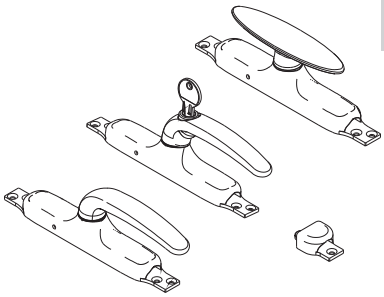
Outward opening casement with overlap



Flush outward opening casement







PROVENCE CREMONE

Functions

Lever Cremone, reversible, with closing rods in view, for front mounting for windows and shutters

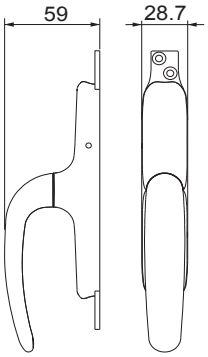
Online data sheet

Technical Features

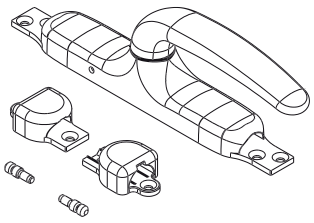
Front fixing with self-tapping screws.
All the fixing screws are concealed to enhance the design of the cremone and of the entire fastening mechanism.
The necessary machining consists of just holes with a single drill bit (Ø2.7mm in the case of aluminium). We recommend using the dedicated template.
Provence has a stroke of 18 mm, which allows an effective grip in the wall or in its strikers. The cremone package includes two rod guides and two pins for connection with the locking rods.

Materials

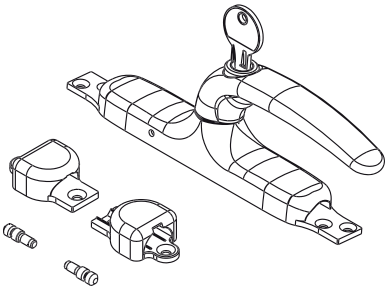
Handle in die-cast aluminium
Cremone case, gear, racks and rod guide in die-cast zamak
Trip spring, screws and grub screw, pre-assembled, in stainless steel
Liners in white polyamide
Extruded aluminium rod connecting blocks
Rod connection terminal and fixing screws in zinc plated steel



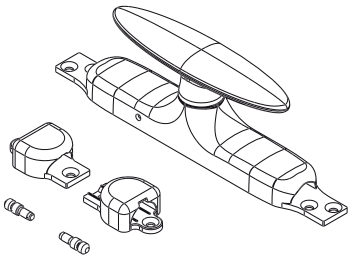
Lever pull handle Provence Cremone



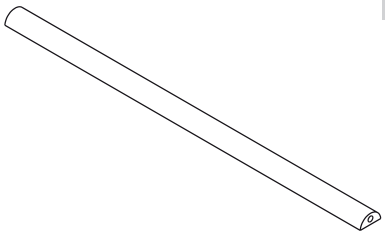
Provence Cremone, lever pull handle with key



"T" pull handle Provence Cremone



Item code	Description	Version	Pull handle	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01160	LEVER PULL HANDLE PROVENCE CREMONE		Unica	X		X		10
01161	PROVENCE CREMONE, LEVER/KEY PULL HANDLE	Key	Unica	X		X		10
01162	T PULL HANDLE PROVENCE CREMONE		T	X		X		10



RODS

Functions
Connection rod in view for closing the Provence Cremone.

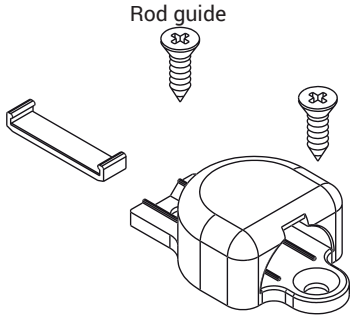
Online data sheet

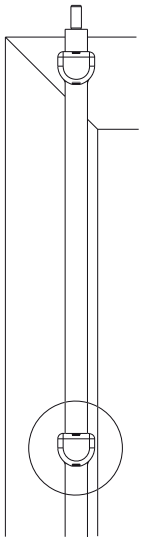
Technical Features
They are available in different lengths, to be cut to size on the basis of the position of the Cremone and the dimensions of the sash.
At its ends you are to add the pin for connecting to the Cremone (included with the latter) and the fastening bolt tip, to be ordered separately.

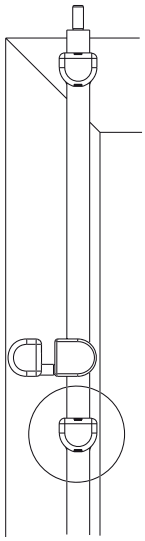
Rod Guide
Additional element to be ordered separately if the casement is particularly large and you want to prevent the risk of the rod flexing.
Recommended for use near the third fastener, if fitted, in order to strengthen it.
Rod guide in die-cast zamak.
Zinc plated steel screws.
Clearance reduction element made of polyamide.

Materials
Extruded aluminium

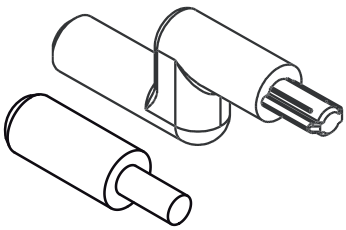
Rod guide







Item code	Description	Length	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01297	PROVENCE FASTENING MECHANISM ROD	1600 mm	X		X		10
01298	PROVENCE ROD GUIDE		X		X		10
01300	PROVENCE FASTENING MECHANISM ROD	1000 mm	X		X		10
01304	PROVENCE FASTENING MECHANISM ROD	1250 mm	X		X		10



PROVENCE BOLT TIPS

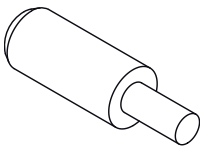
Functions
Straight terminals for top and bottom closing of the Provence cremone

Online data sheet

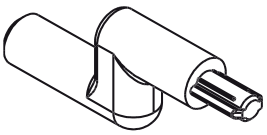
Technical Features
Available in two versions, straight and offset.
The straight terminal is used in all flush situations or when combined with strikers with a plate and their shims that always go into flush conditions.
The offset terminal is used when there is an overlap between the sash and frame.
They are engaged at the end of the rod, with a hammer, with the aid of the specific kit that has the purpose of preventing the hammer from accidentally chipping the surface finish of the rods or blocks of the third fastening mechanisms.

Materials
Stainless Steel

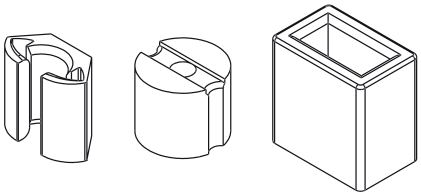
Straight terminal

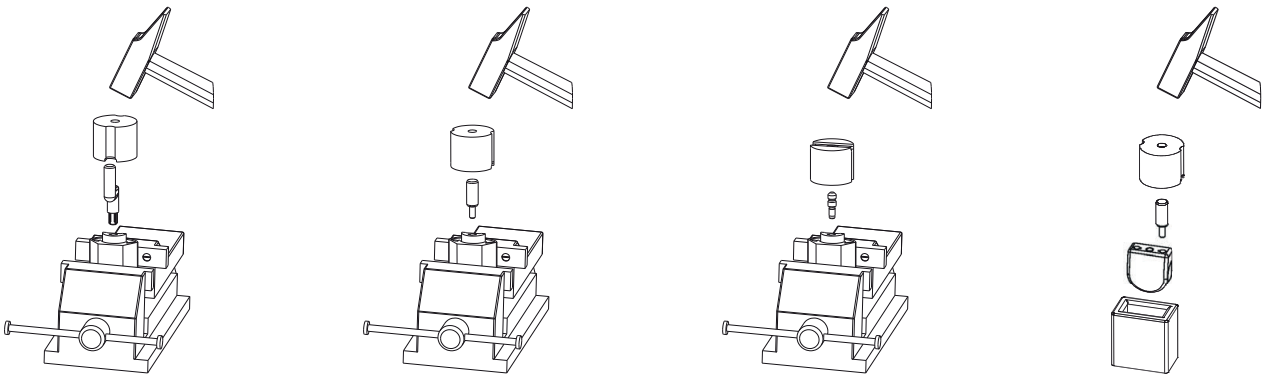


Offset terminal

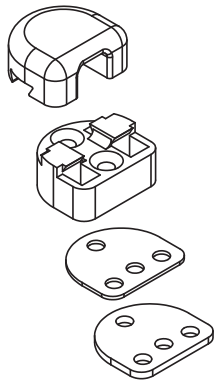


Provence bolt tip insertion kit





Item code	Description	Offset terminal	Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02135	PROVENCE STRAIGHT TERMINAL	NO	External / Internal	X				20
02136	PROVENCE OFFSET TERMINAL	YES	External	X				20
03288	PROVENCE BOLT TIP INSERTION KIT			X				50



PROVENCE STRIKERS

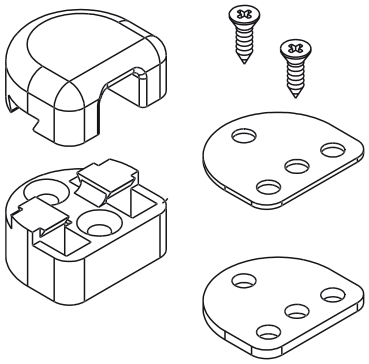
Functions
Strikers for closing the Provence cremone

Online data sheet

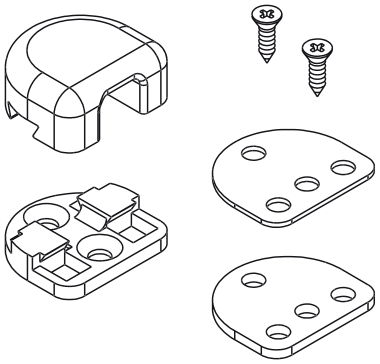
Technical Features
It is fitted on the frame and intercepts the bolt tip applied on the aluminium rod, which is moved by the cremone.
Both models are for an overlap of 7 mm, but with shims they can go up to 10 mm.
With the Provence strikers it is possible to have fasteners on both inward-opening and outward-opening casements (flush and overlap).

Materials
Die-cast zamak plate and casing
Polyamide shims
Zinc plated steel screws.

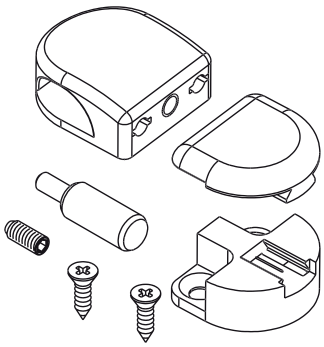
Inward opening striker



Outward opening casement striker



Item code	Description	Step	Overlap Inward Opening	Flush Inward Opening	Overlap Outward Opening	Flush Outward Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01294N	PROVENCE STRIKER	7 ÷ 10 mm	x				X		X		20
01295N	PROVENCE STRIKER	7 ÷ 10 mm		x	x	x	X		X		20



ADDITIONAL FASTENING MECHANISMS

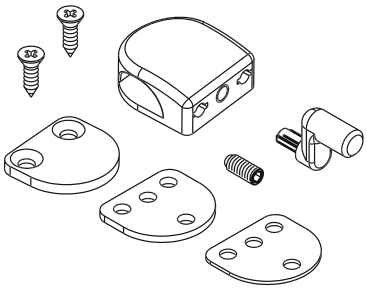
Functions
Additional fastening mechanisms for PROVENCE Cremone

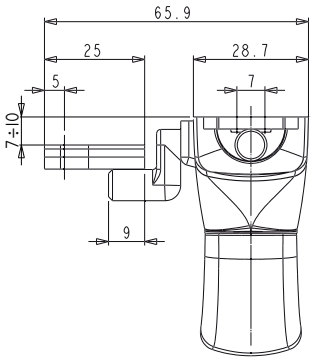
Online data sheet

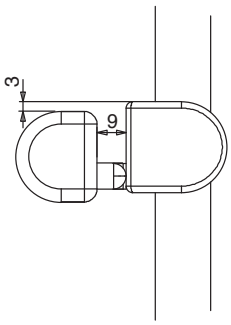
Technical Features
It is composed of a component bearing the bolt tip and is fixed on the rod with a grub screw. To strengthen the system it is recommended to be used near the cremone or near an additional rod guide.
Recommended for heights over 1800 mm.

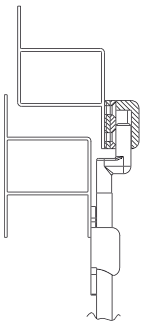
Materials
Bolt tip made of stainless steel
Block in die-cast zamak
Steel striker
Mounting grubscrew and fixing screws in stainless steel
Polyamide shims (overlap version)

Outward opening casement fastening mechanism (overlap)

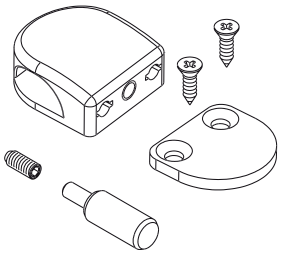


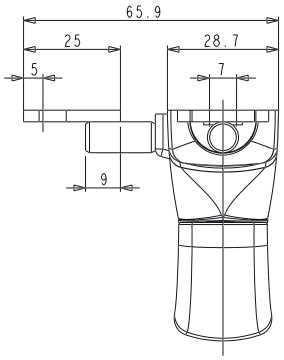


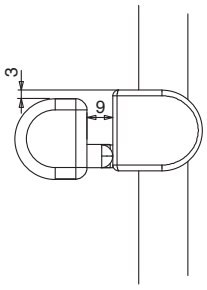


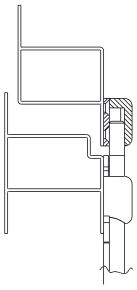


Outward opening casement fastening mechanism (flush)

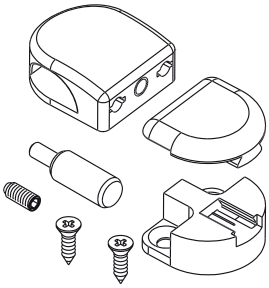


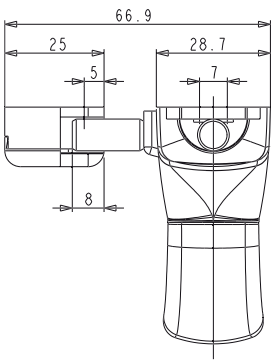


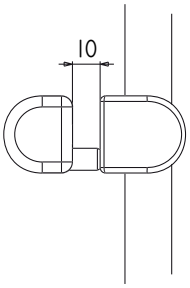


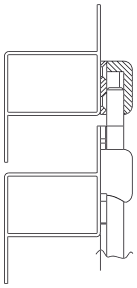


Inward opening fastening mechanism (flush)

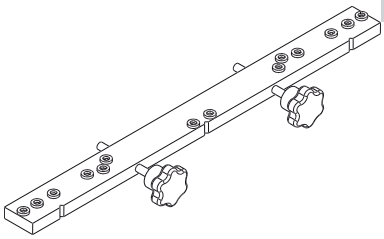








Item code	Description	Version	Step	Opening	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01292	ADDITIONAL FASTENING MECH-ANISM	Overlap	7 ÷ 10	External	X		X		10
01293	ADDITIONAL FASTENING MECH-ANISM	Flush	-	External	X		X		10
01296	ADDITIONAL FASTENING MECH-ANISM	Flush	-	Internal	X		X		10



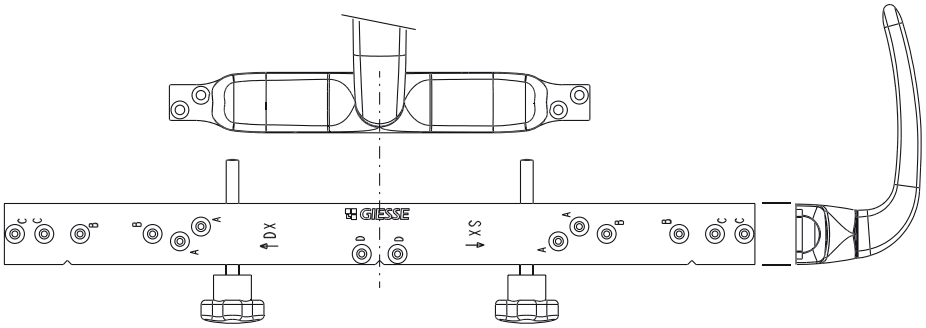
MACHINING TEMPLATE

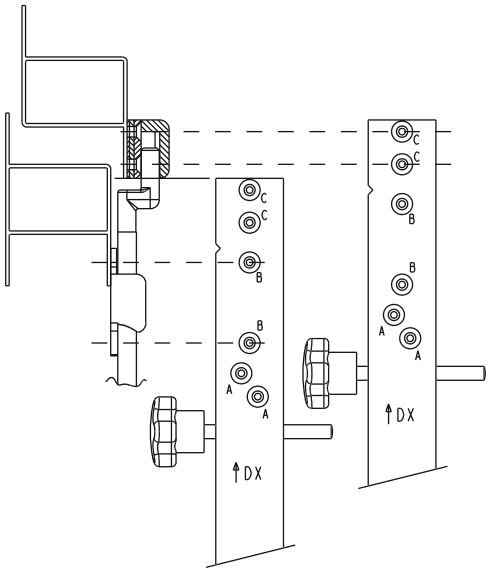
Functions
Enables making holes for all the components in the Provence range.

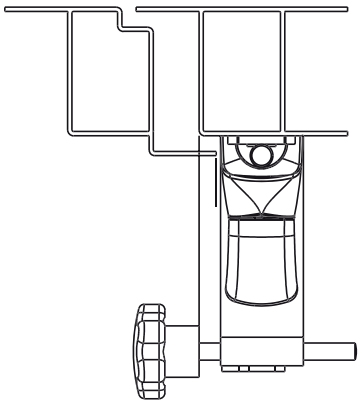
Online data sheet

Technical Features
The template has a width equivalent to the cremone so that, once you have determined the position on the profile, you are sure that the Provence will find the right housing.
The template allows you to make all the necessary holes for:
• cremone
• rod guide
• strikers
• additional fastening mechanisms

Materials
Aluminium template
Carbonitrided steel bushes







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03280	PROVENCE MACHINING TEMPLATE		X				1

CONFIGURATION EXAMPLES

Inward opening Provence configuration

Profile type	Overlap	Flush
Cremone	01160 - 01161 - 01162	01160 - 01161 - 01162
Rod	01297 - 01300 - 01304	01297 - 01300 - 01304
Bolt tip	02135	02135
Striker	01294N	01295N

Outward opening casement Provence configuration

Profile type	Overlap	Flush
Cremone	01160 - 01161 - 01162	01160 - 01161 - 01162
Rod	01297 - 01300 - 01304	01297 - 01300 - 01304
Bolt tip	02136	02135
Striker	01295N	01295N



CDM 30

Functions

Remote manual control for opening bottom-hung casements of maximum width 1200 mm, composed of scissor, corner drive, articulated handle.

Online data sheet

Technical Features

The manual bottom-hung opening CDM30 is formed by:
- control for bottom-hung windows including manual lever, main scissor and chain corner drive;
- transmission rod;
- casing;

The scissor of the CDM30 control allows the maximum opening of 180 mm.
The CDM30 control is applicable on all casements with a minimum height of 250 mm and a maximum weight of 80 kg.
The corner drive uses a chain and ensures sturdiness and functionality over time. The scissor of the CDM30 control enables quickly locking and releasing the sash with a lug, and you can also adjust the pressure of the sash with the mechanism installed.
The CDM30 control is applicable on flush or stepped profiles from 0 to 25 mm.

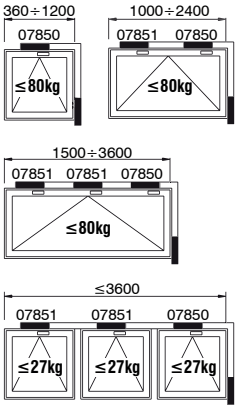
Additional fastening mechanisms

For sashes of width greater than 1200 mm, it is necessary to use one or more additional scissors. Using additional scissors does not increase the load capacity that remains at 80 kg max.

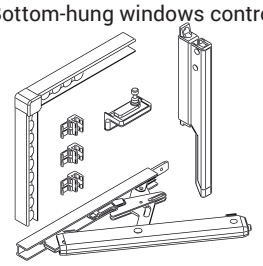
Materials

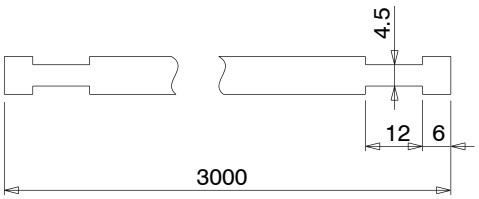
Control for bottom-hung windows and additional scissor made of extruded aluminium, stainless steel and zamak.
Polyamide caps.
Driving rod made of stainless steel.
Extruded aluminium casing.

Types and load capacities

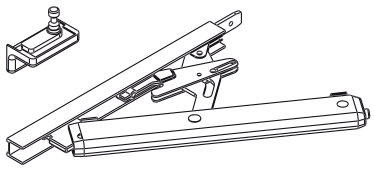


Bottom-hung windows control

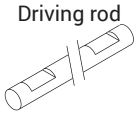




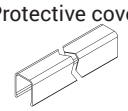
Additional scissor

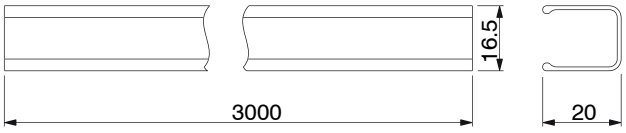


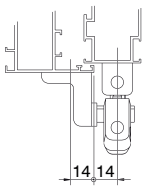
Driving rod



Protective cover

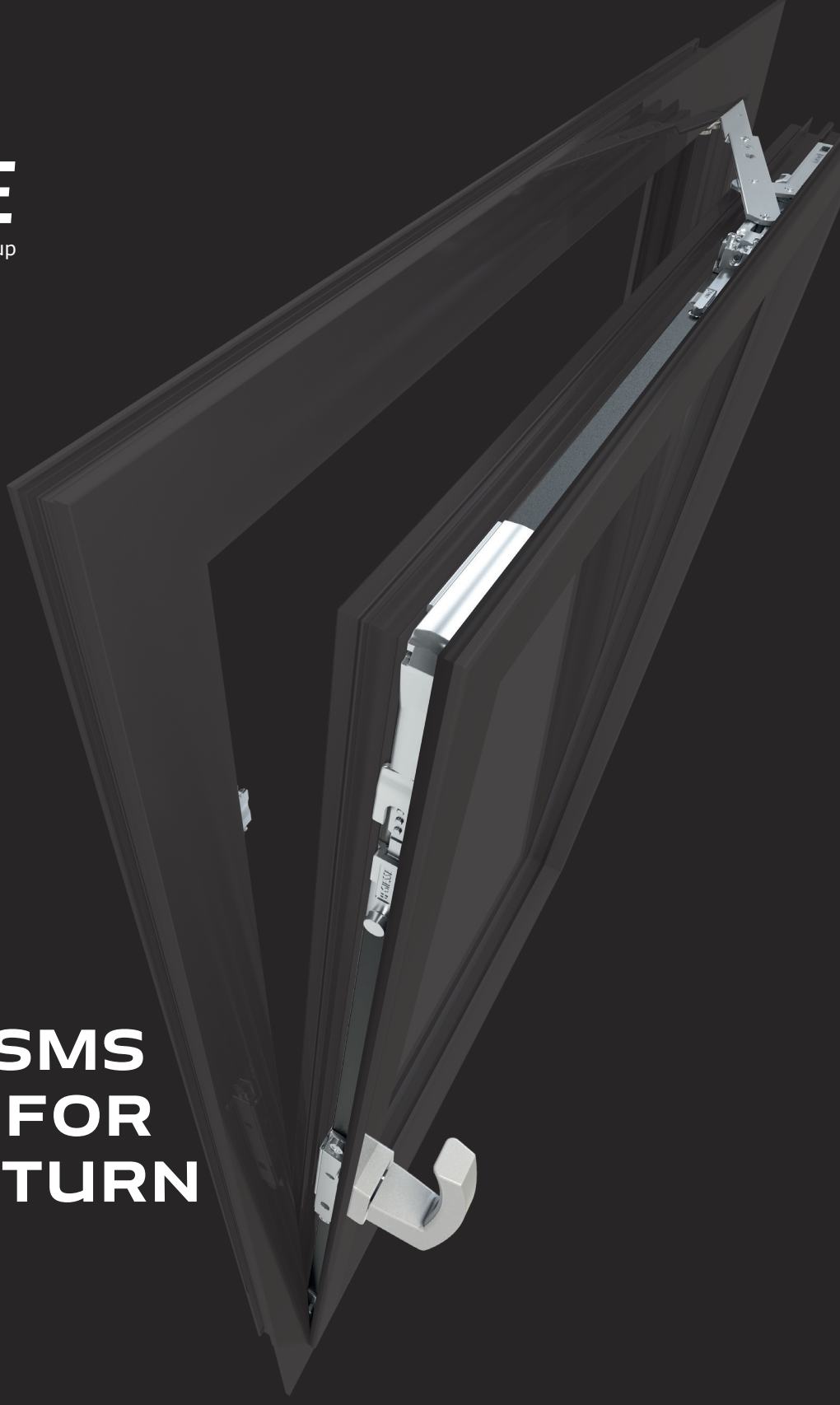






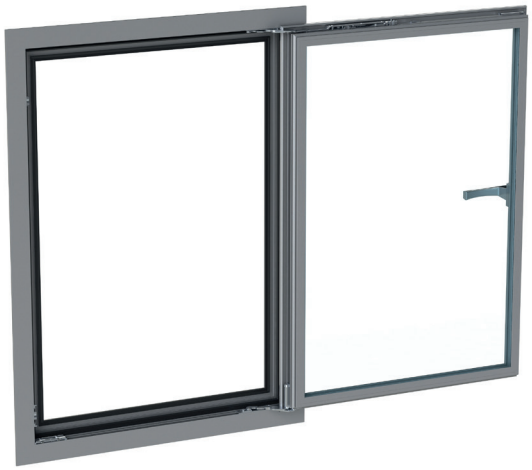
Codes	Description	Length (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
07850	BOTTOM-HUNG WINDOWS CONTROL CDM30	-		X	X		1
07851	ADDITIONAL SCISSOR	> 1200		X	X		1
07852	DRIVING ROD	3000	X				1
07853	PROTECTIVE COVER	3000		X	X		1

GIESSE
TYMAN group



MECHANISMS AND KITS FOR TILT-AND-TURN

CHIC 3D 100



Functions

Complete system for the construction of concealed tilt-and-turn windows with load capacities of up to 100 kg and with 180° sash opening.
Available in the standard, logic and micro-ventilation versions.

Technical Features

Making a CHIC 3D 100 Tilt-and-Turn mechanism requires:
1. Set of hinges + arms
2. Set of mechanisms for cremones, window handles and NP SUPRA window handles
3. Cremone, window handle or NP SUPRA window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The adjustments are micrometric and indipendent.

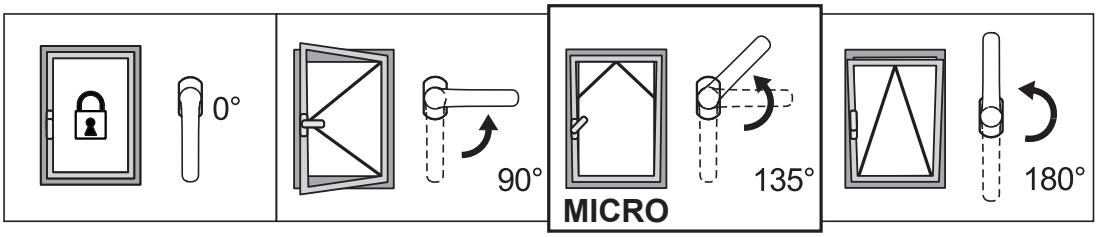
Standard microventilation

Micro-ventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement, for better air exchange.

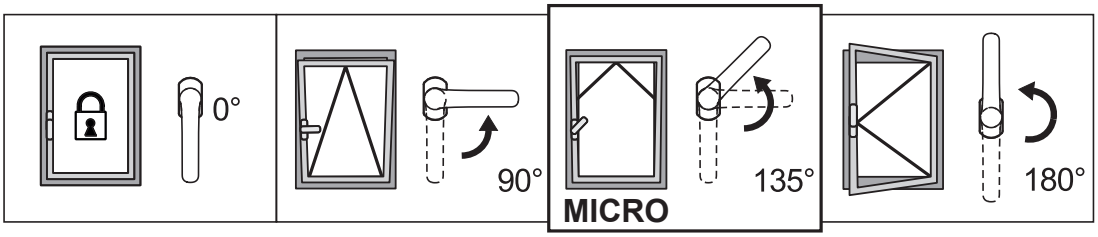
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

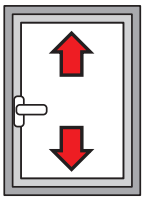
Production micro-ventilation with standard opening



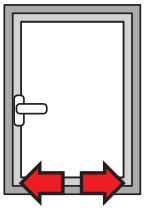
Production micro-ventilation with Logica opening



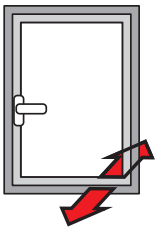
ADJUSTMENTS [mm]



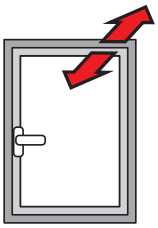
Height:
+2.5 / -1



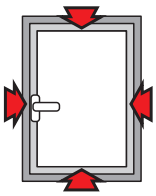
Side:
±1.5



Bottom hinge compression:
+1.4 / -0.6



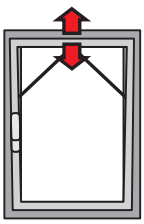
Top hinge compression:
±1.5



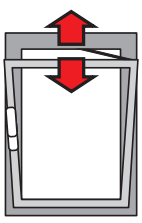
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					

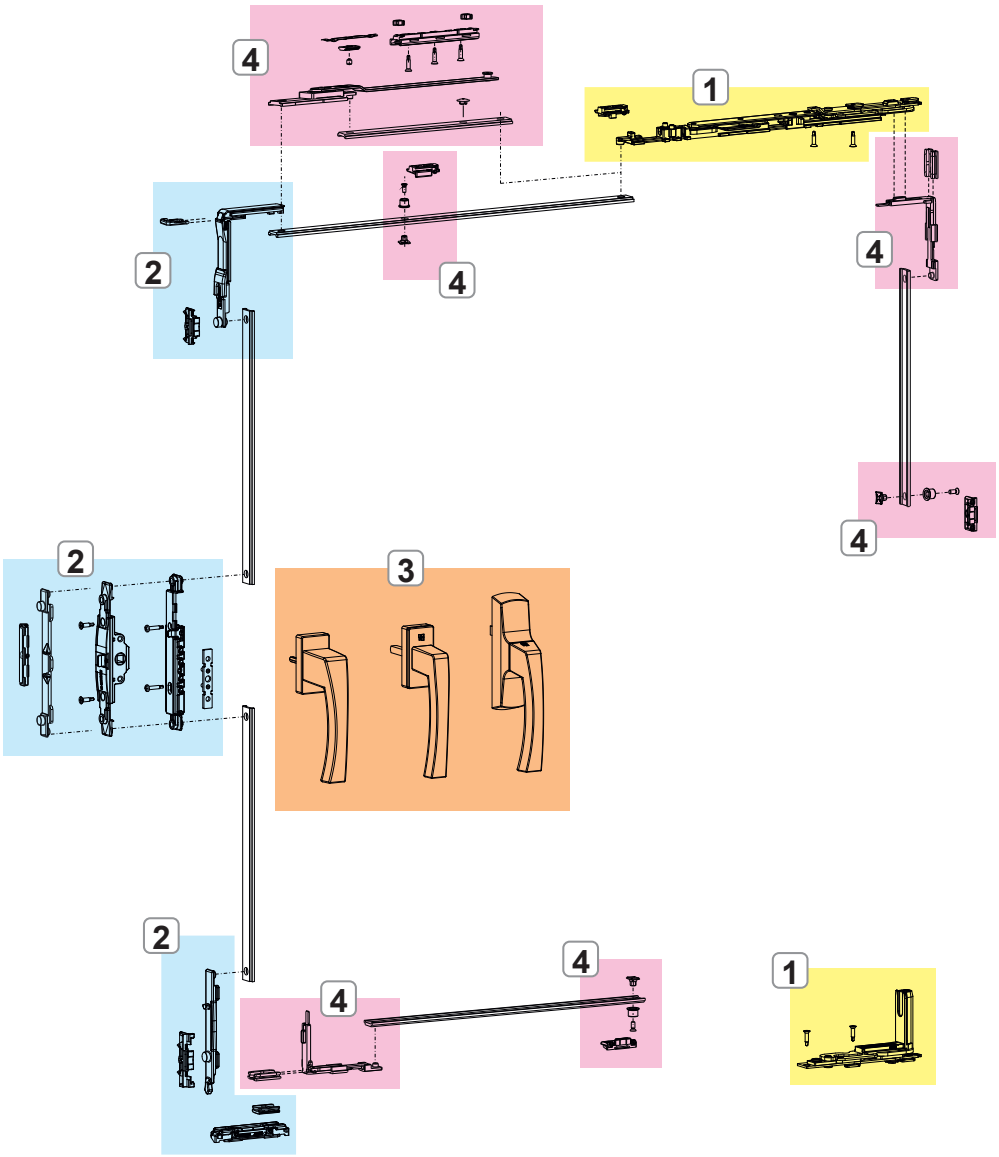
600 / 445

Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					

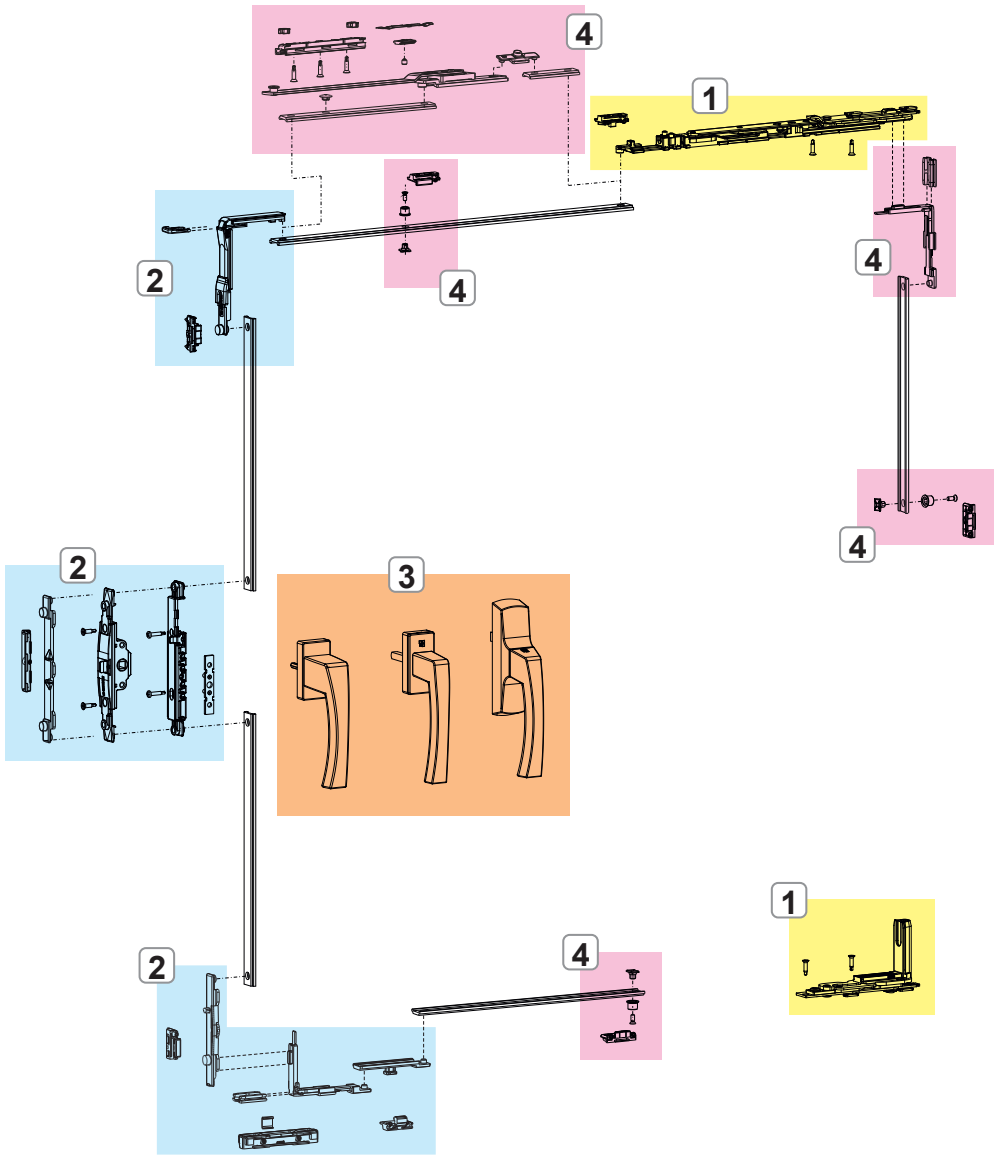
600 / 445

CHIC 3D 100 standard



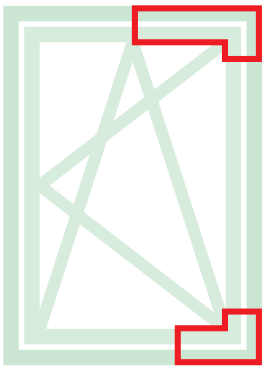
1. CHIC 3D 100 HINGES AND ARMS
2. CHIC 3D 100 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

CHIC 3D 100 logica



1. CHIC 3D 100 HINGES AND ARMS
2. CHIC 3D 100 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

CHIC 3D 100 HINGES AND ARMS



Online data sheet

Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

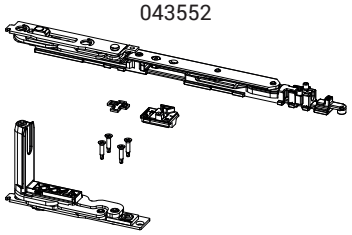
Technical Features

They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

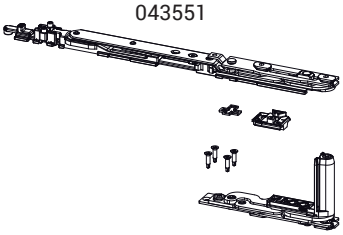
Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

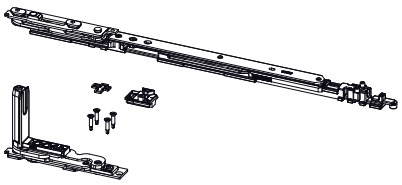
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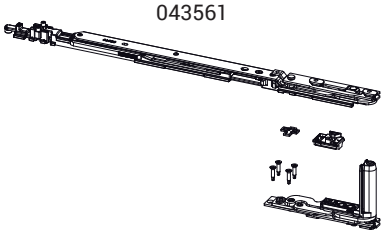
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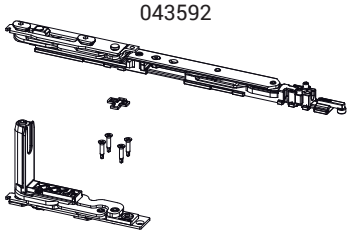
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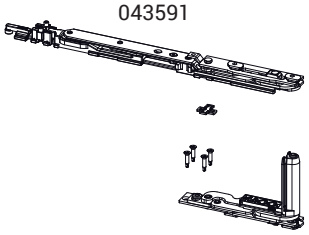
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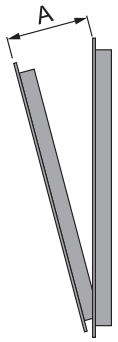
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043591

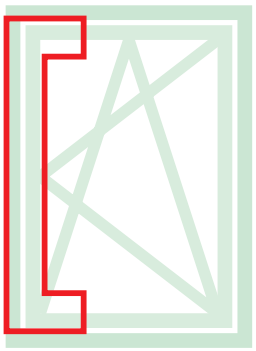


Sash opening



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043551	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	98	RX	X				10
043552	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	98	LX	X				10
043561	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1500	Micro	148÷178	RX	X				10
043562	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1500	Micro	148÷178	LX	X				10
043591	CHIC - T1 ARM T&T KIT (WITHOUT MICRO-VENTILATION)	C001-C002-C003-C004-C005-C006	L 445 ÷ 700	-	98	RX	X				10
043592	CHIC - T1 ARM T&T KIT (WITHOUT MICRO-VENTILATION)	C001-C002-C003-C004-C005-C006	L 445 ÷ 700	-	98	LX	X				10

CHIC 3D 100 FASTENING MECHANISMS



Online data sheet

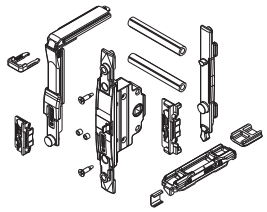
Functions

Tilt-and-Turn fastening mechanisms for cremone, window handle and NP SUPRA window handle, available in the Standard and Logica versions.

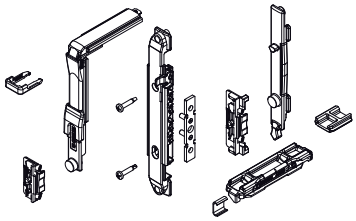
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

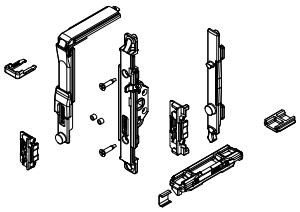
00947



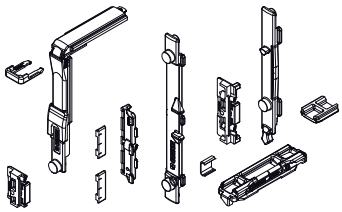
0395501



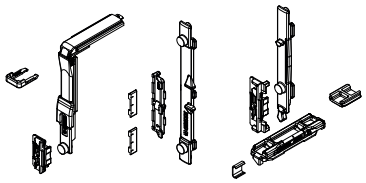
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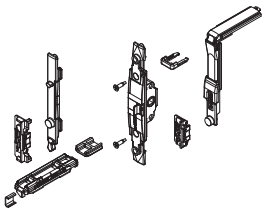
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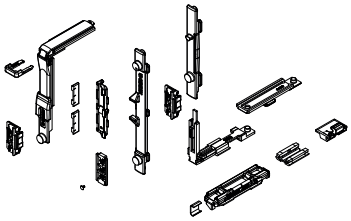
04704010



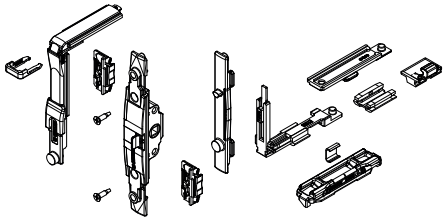
0470501



04706N

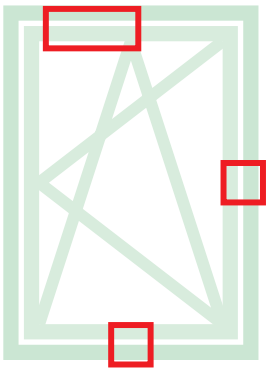


0470701



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND HARDWARE



Online data sheet

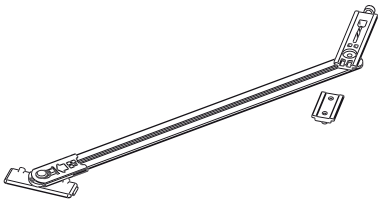
Functions

The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.

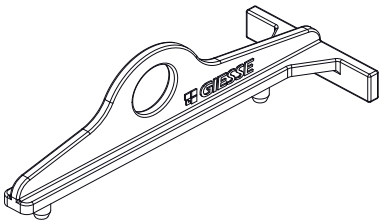
Technical Features

On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

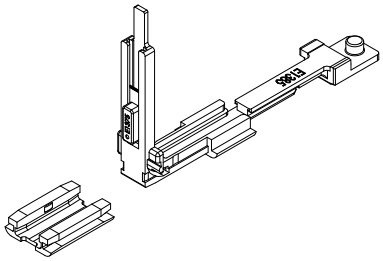
02030K



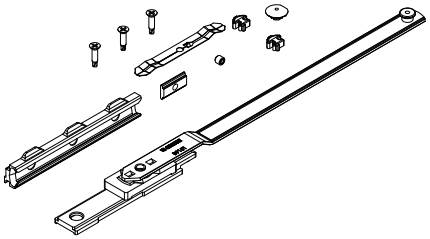
03535



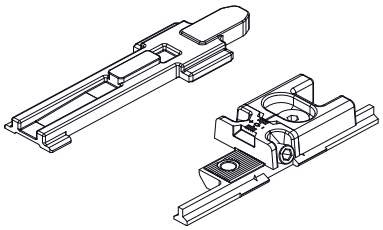
04024K



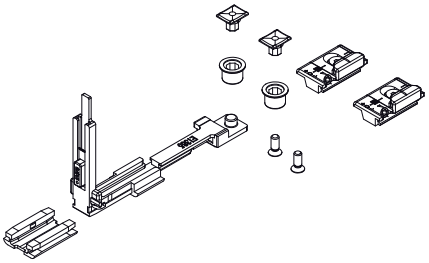
04301K



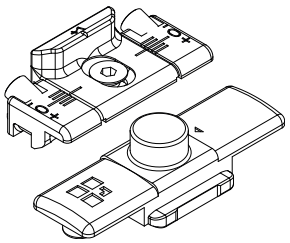
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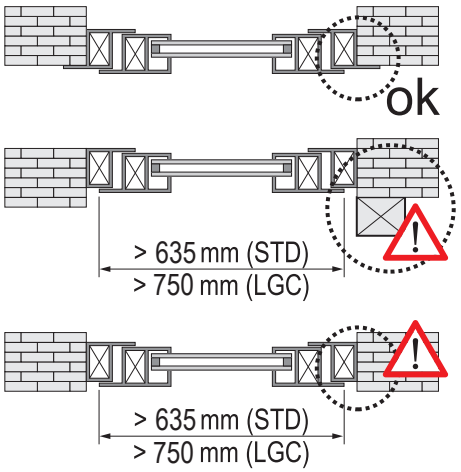
04770K



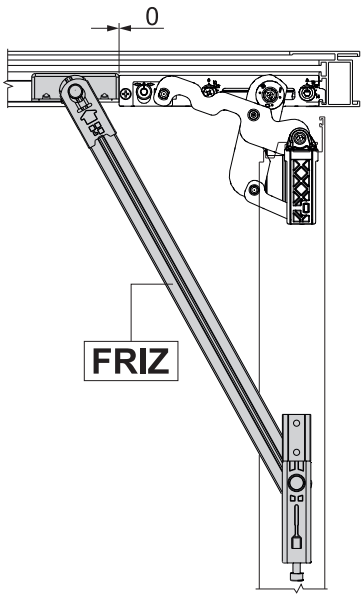
04777K



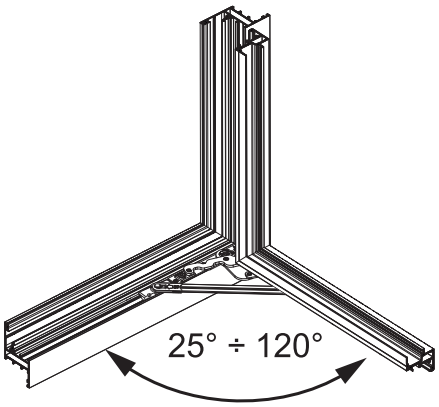
Mandatory to use the FRIZ arm



FRIZ arm positioning

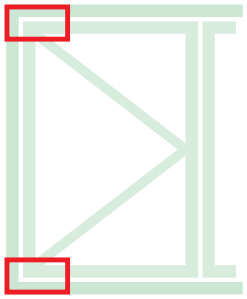


Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	See picture	-	X				10
03535	CHIC - TEMPLATE FOR TILT-AND-TURN	C001-C002-C003-C004-C005-C006	-	-	X				10
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04357	CHIC - ARM ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

SECONDARY SASH HINGE SET FOR CHIC 3D 100



Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 100.

Technical Features

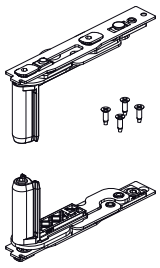
Sash opening to 180°.
Maximum load capacity 100 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.

Materials

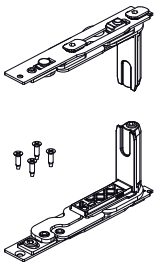
Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

Online data sheet

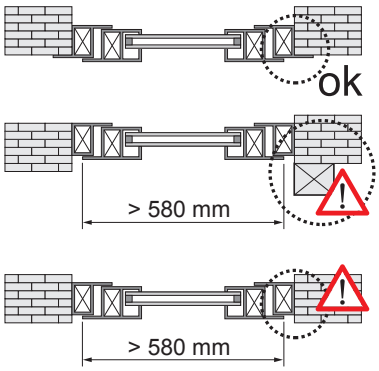
043542



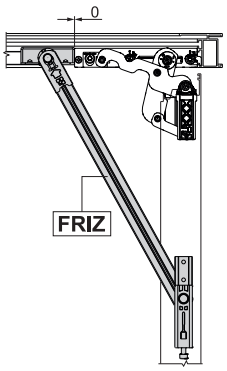
043541



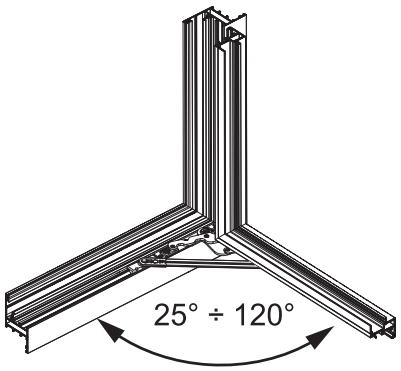
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
043541	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	RX	X				10
043542	CHIC - SASH HINGE SET	C001-C002-C003-C005-C006	LX	X				10

CONFIGURATION EXAMPLES

CHIC 3D 100

Micro configuration with Cremone

MAIN SASH				
Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04704 - 04704010	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094	01039 - 01094
SECONDARY SASH				
Hinges	043541 - 043542	043541 - 043542	043541 - 043542	043541 - 043542
Adjusta-ble bolt	02168K	02168K	02168K	02168K
Single striker	01348	01348	01348	01348

* No Micro-ventilation

Micro configuration with window handle

MAIN SASH				
Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	0470501	0470501	0470501	0470501
Additional arm	-	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH				
Hinges	043541 - 043542	043541 - 043542	043541 - 043542	043541 - 043542
Adjusta-ble bolt	02168K	02168K	02168K	02168K
Single striker	01348	01348	01348	01348

* No Micro-ventilation

Micro configuration with NP Supra

MAIN SASH				
Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	03955	03955	03955	03955
Additional arm	-	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963	03962 - 03963
SECONDARY SASH				
Hinges	043541 - 043542	043541 - 043542	043541 - 043542	043541 - 043542
Adjusta-ble bolt	02168K	02168K	02168K	02168K
Single striker	01348	01348	01348	01348

* No Micro-ventilation

Logica micro configuration with Cremone

MAIN SASH				
Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195	01194 - 01195
SECONDARY SASH				
Hinges	043541 - 043542	043541 - 043542	043541 - 043542	043541 - 043542
Adjusta-ble bolt	02168K	02168K	02168K	02168K
Single striker	01348	01348	01348	01348

* No Micro-ventilation

Logica configuration with window handle

MAIN SASH				
Sash width	445 ÷ 469*	470 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	043591 - 043592	043551 - 043552	043561 - 043562	043561 - 043562
Mecha-nism	0470701	0470701	0470701	0470701
Additional arm	-	-	-	04301K
Window handle	02486	02486	02486	02486
SECONDARY SASH				
Hinges	043541 - 043542	043541 - 043542	043541 - 043542	043541 - 043542
Adjusta-ble bolt	02168K	02168K	02168K	02168K
Single striker	01348	01348	01348	01348

* No Micro-ventilation

FLUSH CHIC 3D 100



Functions

Complete system for the construction of concealed tilt-and-turn windows with load capacities of up to 100 kg and with 105° sash opening.
Available in the standard, logic and micro-ventilation versions.

Technical Features

Making a CHIC 3D 100 Tilt-and-Turn mechanism requires:
1. Set of hinges + arms
2. Limitation arm
3. Set of fastening mechanisms for Cremones, window handles and SUPRA 7 window handles
4. Cremone, window handle and SUPRA 7 window handle (available in different models to choose from in the specific catalog section)

Adjustments

The adjustments are micrometric and indipendent.

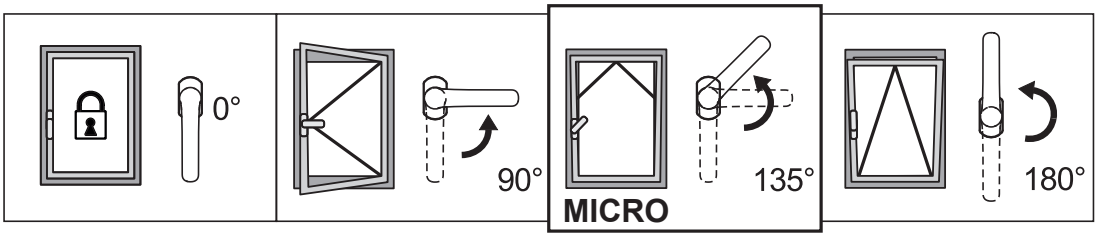
Standard microventilation

Micro-ventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement, for better air exchange.

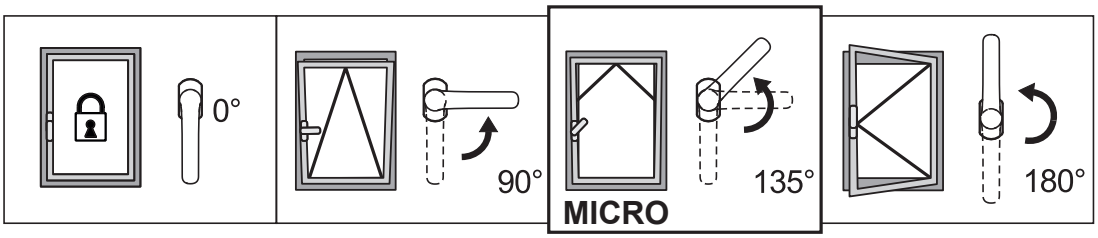
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

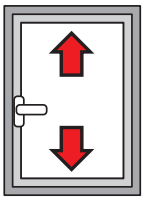
Production micro-ventilation with standard opening



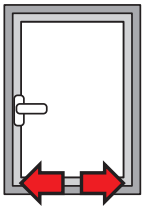
Production micro-ventilation with Logica opening



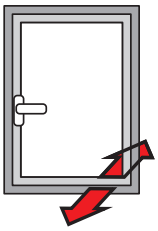
ADJUSTMENTS [mm]



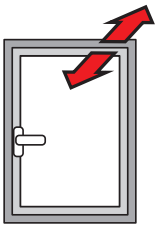
Height:
+2.5 / -1



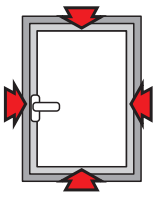
Side:
±1.5



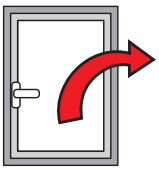
Bottom hinge compression:
+1.4 / -0.6



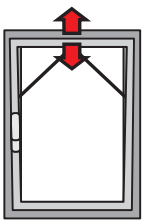
Top hinge compression:
±1.5



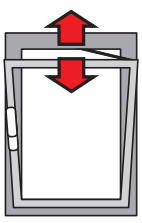
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178

Table of maximum glass thickness [mm]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	33	27	23	20	18	16	15	14	13	12	11
2400	33	27	23	20	18	16	15	14	13	12	11
2300	34	28	24	21	19	17	16	14	13	12	11
2200	36	30	25	22	20	18	16	15	14	13	12
2100	37	31	27	23	21	19	17	16	14	13	12
2000	39	33	28	25	22	20	18	16	15	14	13
1900	41	34	30	26	23	21	19	17	16	15	14
1800	44	36	31	27	24	22	20	18	17	16	15
1700	46	38	33	29	26	23	21	19	18	16	15
1600	49	41	35	31	27	25	22	20	19	17	15
1500	50	44	37	33	29	26	24	22	20	17	15
1400	50	47	40	35	31	28	25	23	20	17	15
1300	50	50	43	38	34	30	27	24	20	17	15
1200	50	50	47	41	36	33	28	24	20	17	15
1100	50	50	50	45	40	34	28	24	20	17	
1000	50	50	50	49	42	34	28	24	20		
900	50	50	50	50	42	34	28	24			
800	50	50	50	50	42	34	28				
700	50	50	50	50	42	34					

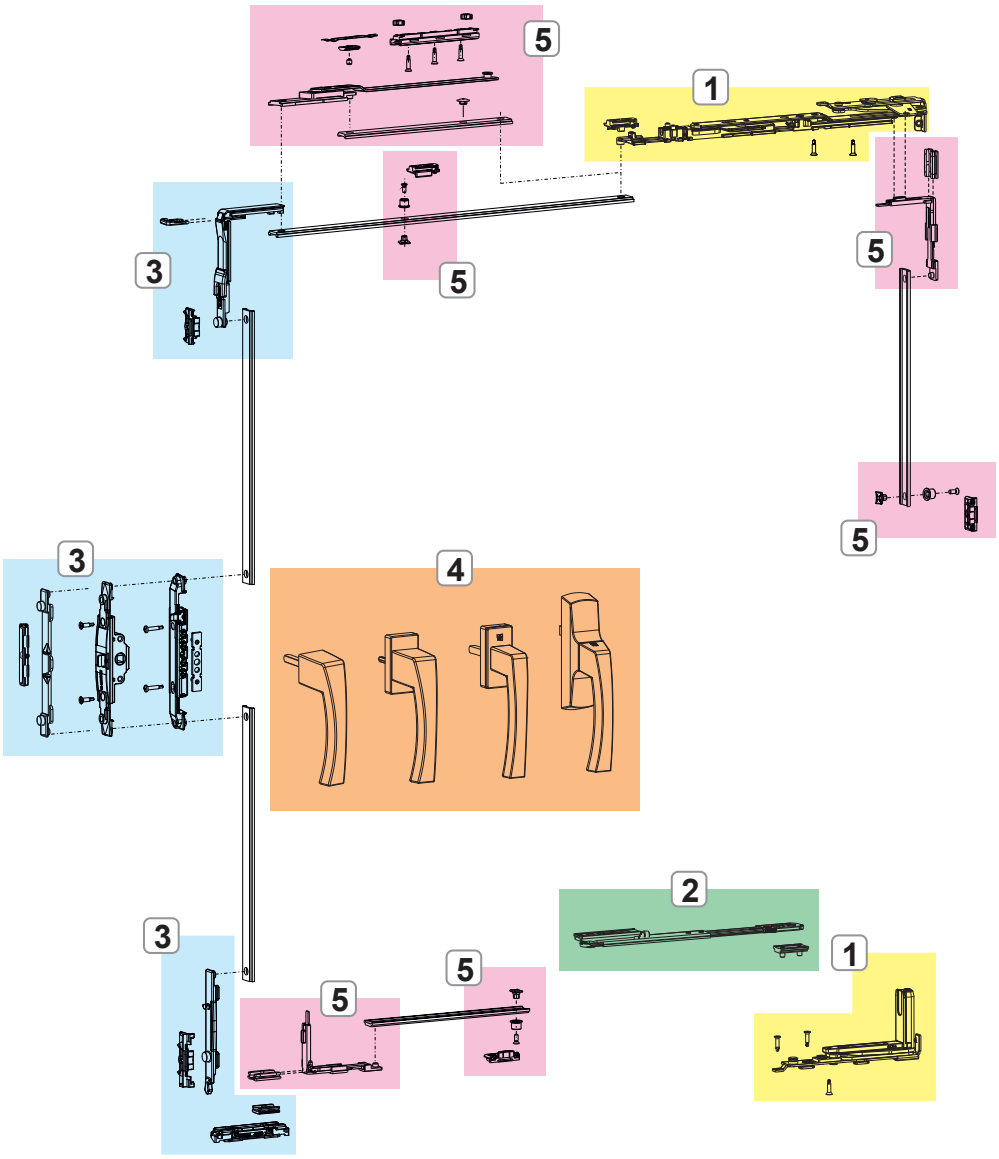
600
485

Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	98
1600	100	100	100	100	100	100	100	100	100	99	92
1500	100	100	100	100	100	100	100	100	100	93	87
1400	100	100	100	100	100	100	100	100	93	87	81
1300	100	100	100	100	100	100	100	94	87	80	75
1200	100	100	100	100	100	100	95	87	80	74	69
1100	100	100	100	100	100	95	87	79	73	68	
1000	100	100	100	100	96	87	79	72	67		
900	100	100	100	98	87	78	71	65			
800	100	100	99	87	77	69	63				
700	100	100	87	76	67	61					

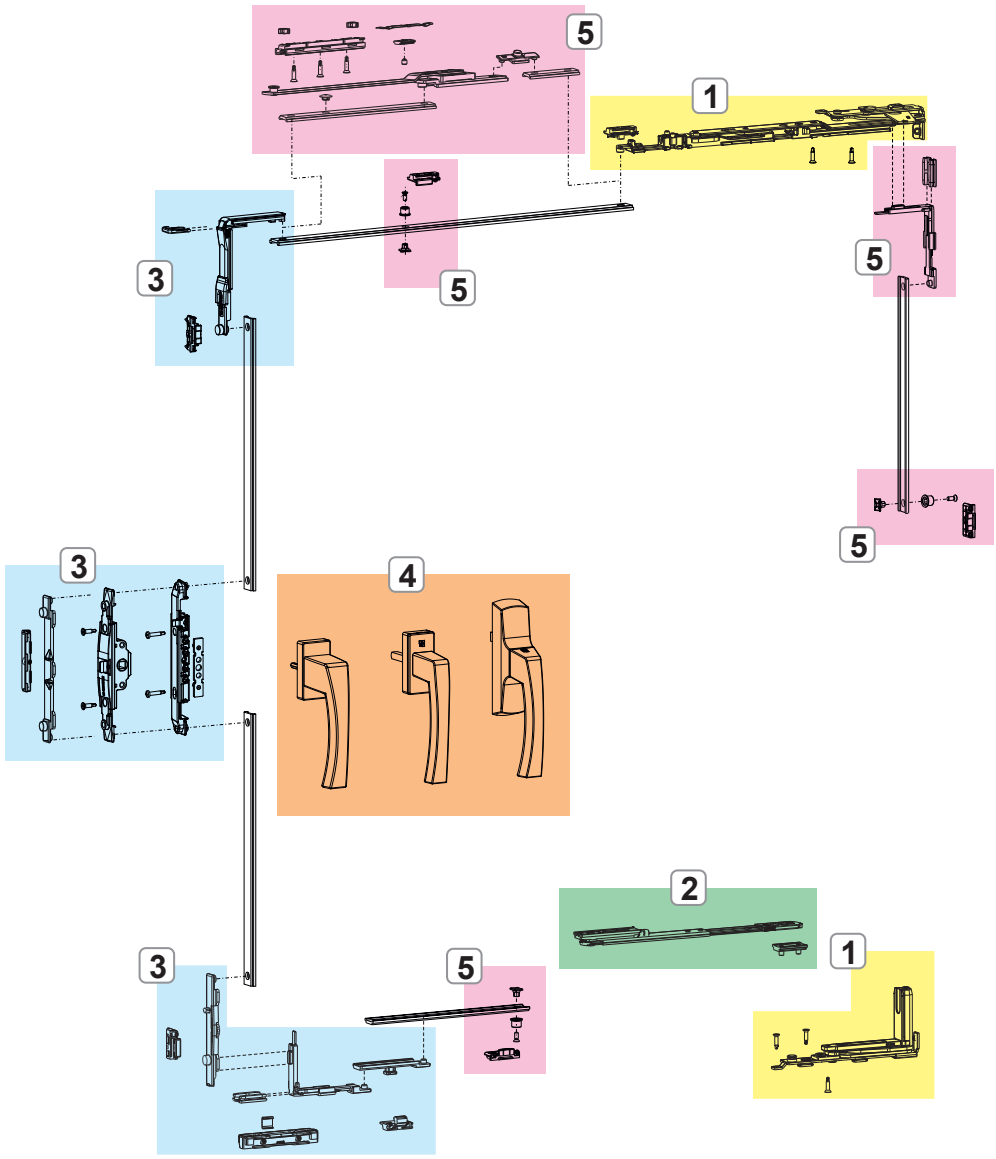
600
485

FLUSH CHIC 3D 100 standard



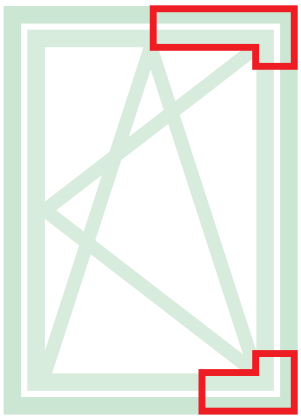
1. FLUSH CHIC 3D 100 HINGES AND ARMS
2. LIMITATION ARM
3. FLUSH CHIC 3D 100 FASTENING MECHANISM
4. CREMONE, WINDOW HANDLES AND SUPRA 7 WINDOW HANDLES
5. FLUSH CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND COMPONENTS

FLUSH CHIC 3D 100 logic



1. FLUSH CHIC 3D 100 HINGES AND ARMS
2. LIMITATION ARM
3. FLUSH CHIC 3D 100 FASTENING MECHANISM
4. CREMONESI, MARTELLINE E MANOVRE NP SUPRA
5. FLUSH CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND COMPONENTS

FLUSH CHIC 3D 100 HINGES AND ARMS



Online data sheet

Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

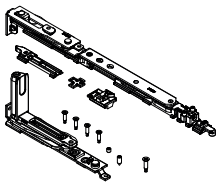
Technical Features

They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

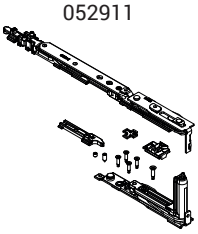
Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

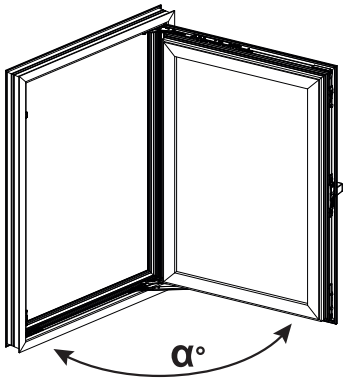
052912



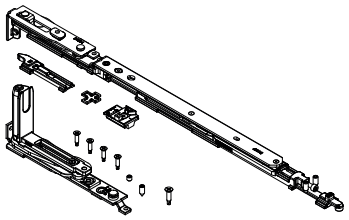
052911



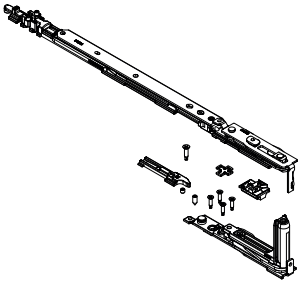
α° MAX = 105°



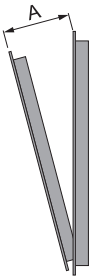
052922



052921

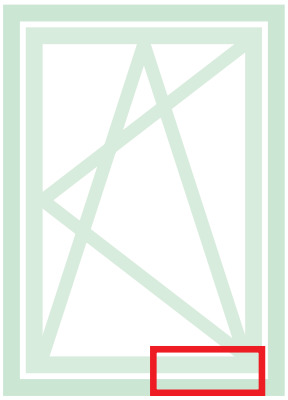


Sash opening



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
052911	CHIC 100 FLUSH - AR ARM T1 KIT	C013-C014-C015-C016-017	W 485 ÷ 700	Micro	98	RX	X				10
052912	CHIC 100 FLUSH - AR ARM T1 KIT	C013-C014-C015-C016-017	W 485 ÷ 700	Micro	98	LX	X				10
052921	CHIC 100 FLUSH - AR ARM T2 KIT	C013-C014-C015-C016-017	L 600 ÷ 1500	Micro	148÷178	RX	X				10
052922	CHIC 100 FLUSH - AR ARM T2 KIT	C013-C014-C015-C016-017	L 600 ÷ 1500	Micro	148÷178	LX	X				10

CHIC LIMITATION ARM



Online data sheet

Functions

Accessory utilised to limit opening of the sash when movement of the sash is restricted by obstacles such as uprights or walls.
In the case of FLUSH CHIC it is essential to avoid damage to the hinge since the maximum opening allowed is 105°.

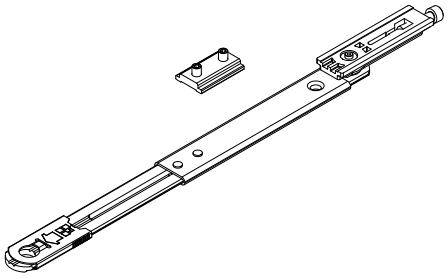
Technical Features

Sliding plate friction adjustable by means of suitable screw.
Applicable on tilt-and-turn window sashes with a minimum width of 485 mm.
Equipped with a spring-loaded manual quick release.
Stop plate fitted with two grub screws to prevent slippage.

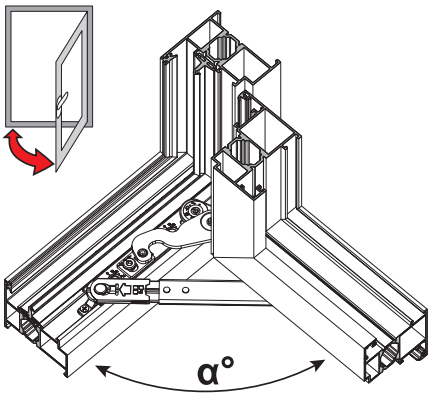
Materials

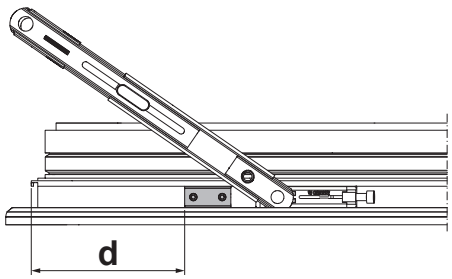
Rod and stop plate made of pre-oxidised extruded aluminium.
Black polyamide frictioning element.
Pins, grub screws, spring and release in stainless steel.

05293



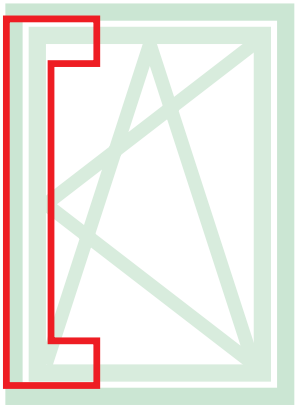
d (mm)	α°
102	105°
127	90°
>127	<90°
α° MAX 105	





Item code	Description	Interface type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05293	CHIC - LIMITATION ARM	C013-C014-C015-C016-C017	X				10

FLUSH CHIC 3D 100 FASTENING MECHANISM



Online data sheet

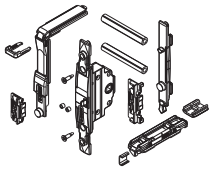
Functions

Tilt-and-turn window fastening mechanisms for Cremone, window handle and SUPRA 7 window handle, available in Base and Logica versions.

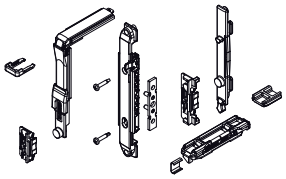
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

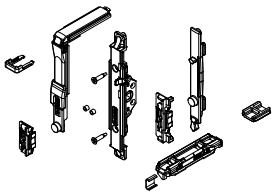
00947



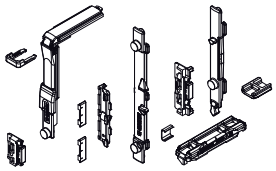
0395501



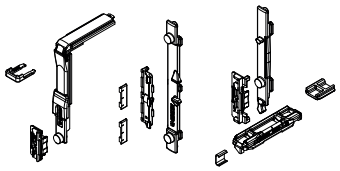
04371



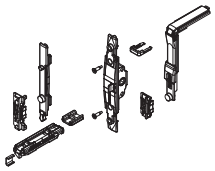
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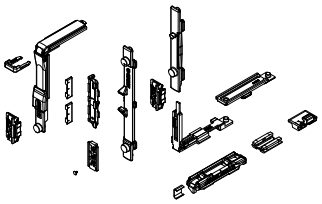
04704010



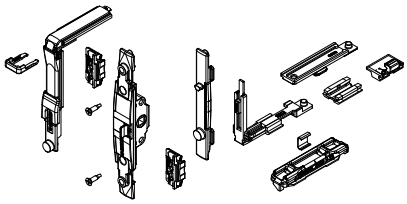
0470501



04706N

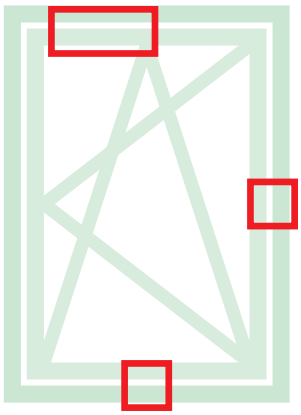


0470701



Item code	Descriptions	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C001-C003	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

FLUSH CHIC 3D 100 ADDITIONAL FASTENING MECHANISMS AND COMPONENTS



Online data sheet

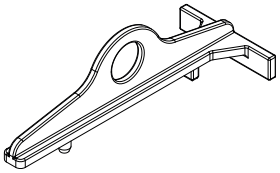
Functions

The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.

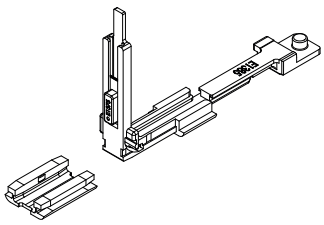
Technical Features

On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

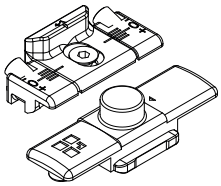
05289



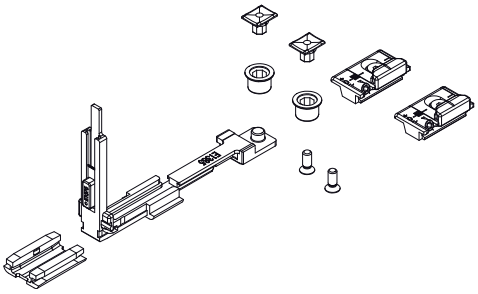
04024K



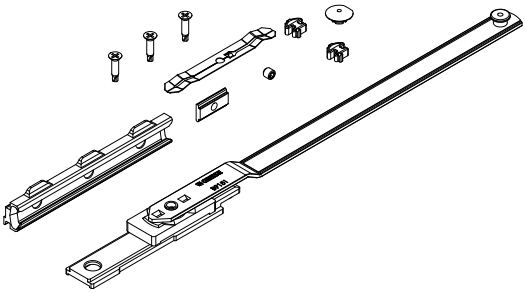
04777K



04770K



04301K



Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
05289	CHIC FLUSH - TEMPLATE FOR AR	C013-C014-C015-C016-C017	-	-	X				10
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C005-C006-C011-C013-C014-C015-C016-C017	W > 1000	-	X				5
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C005-C006-C011-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

CONFIGURATION EXAMPLES

FLUSH CHIC 3D 100

Micro configuration with Cremone

MAIN SASH			
Sash width	485 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	052911 - 052912	052921 - 052922	052921 - 052922
Limitation arm	05293	05293	05293
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094

Logica micro configuration with Cremone

MAIN SASH			
Sash width	595 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	052911 - 052912	052921 - 052922	052921 - 052922
Limitation arm	05293	05293	05293
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195

Micro configuration with window handle

MAIN SASH			
Sash width	485 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	052911 - 052912	052921 - 052922	052921 - 052922
Limitation arm	05293	05293	05293
Mechanism	0470501	0470501	0470501
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997

Logica configuration with window handle

MAIN SASH			
Sash width	595 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	052911 - 052912	052921 - 052922	052921 - 052922
Limitation arm	05293	05293	05293
Mechanism	0470701	0470701	0470701
Additional arm	-	-	04301K
Window handle	02486	02486	02486

Micro with Supra 7 configuration

MAIN SASH			
Sash width	485 ÷ 700	600 ÷ 1000	1001 ÷ 1500
Hinges + Arm	052911 - 052912	052921 - 052922	052921 - 052922
Limitation arm	05293	05293	05293
Mechanism	0470501	0470501	0470501
Additional arm	-	-	04301K
SUPRA 7	04153 - 04154 - 04155 - 04156	04153 - 04154 - 04155 - 04156	04153 - 04154 - 04155 - 04156

CHIC 3D 130



Functions

Complete system for the construction of concealed tilt-and-turn windows with load capacities of up to 130 kg and with 180° sash opening.
Available in the standard, logic and micro-ventilation versions.

Technical Features

Making a CHIC 3D 130 Tilt-and-Turn mechanism requires:
1. Set of hinges + arms
2. Set of mechanisms for cremones, window handles and NP SUPRA window handles
3. Cremone, window handle or NP SUPRA window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The adjustments are micrometric and indipendent.

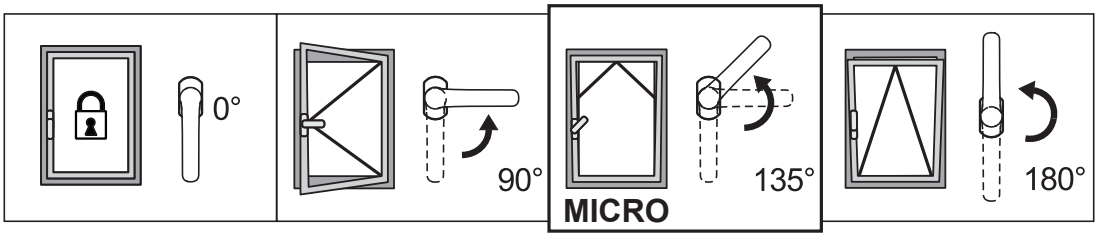
Standard microventilation

Micro-ventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement, for better air exchange.

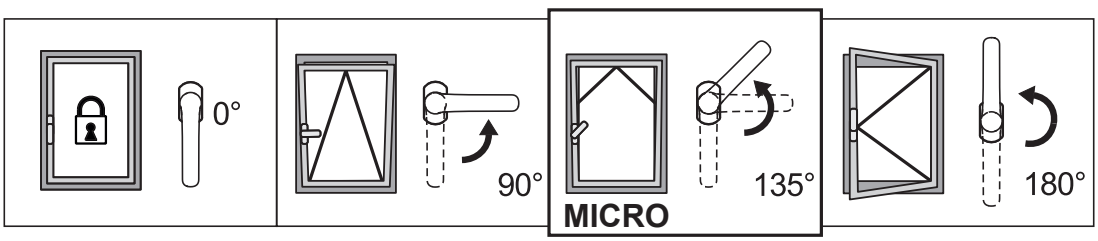
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

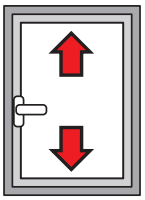
Production micro-ventilation with standard opening



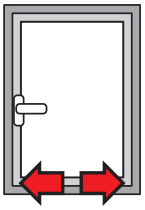
Production micro-ventilation with Logica opening



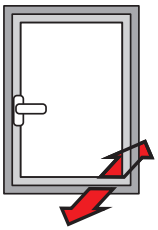
ADJUSTMENTS [mm]



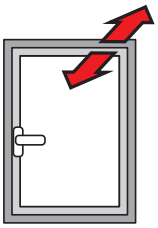
Height:
+2.5 / -1



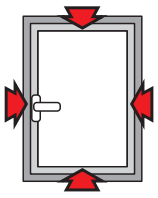
Side:
±1.5



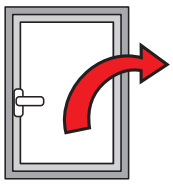
Bottom hinge compression:
+1.4 / -0.6



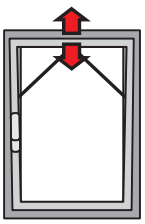
Top hinge compression:
±1.5



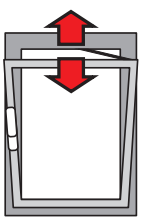
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8



T2 arm opening:
148 ÷ 178

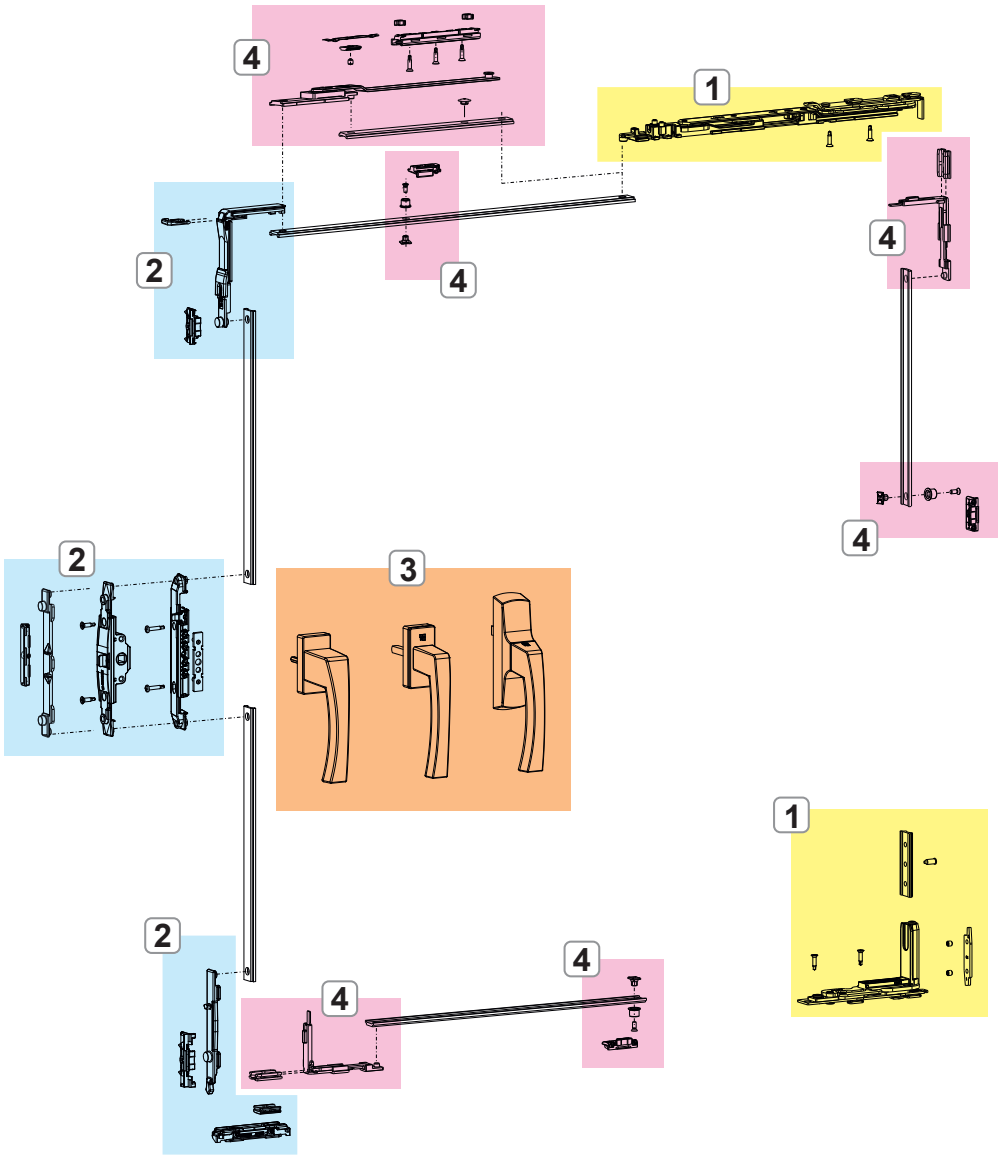
Table of maximum glass thickness [mm]

	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	35	29	25	22	19	17	16	14	13	12	12
2700	37	31	26	23	20	18	17	15	14	13	12
2600	39	32	28	24	21	19	18	16	15	14	13
2500	43	35	30	27	24	21	19	18	16	15	14
2400	43	35	30	27	24	21	19	18	16	15	14
2300	44	37	32	28	25	22	20	18	17	16	15
2200	46	39	33	29	26	23	21	19	18	17	15
2100	49	40	35	30	27	24	22	20	19	17	16
2000	51	43	36	32	28	26	23	21	20	18	17
1900	54	45	38	34	30	27	24	22	21	19	18
1800	57	47	40	35	31	28	26	24	22	20	19
1700	60	50	43	38	33	30	27	25	23	21	20
1600	60	53	46	40	35	32	29	27	25	23	21
1500	60	57	49	43	38	34	31	28	26	24	21
1400	60	60	52	46	40	36	33	30	28	24	21
1300	60	60	56	49	44	39	36	33	28	24	21
1200	60	60	60	53	47	43	39	33	28	24	21
1100	60	60	60	58	52	46	39	33	28	24	
1000	60	60	60	60	57	47	39	33	28		
900	60	60	60	60	58	47	39	33			
800	60	60	60	60	58	47	39				
700	60	60	60	60	58	47					
600 / 470	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600

Table of maximum load capacity [kg]

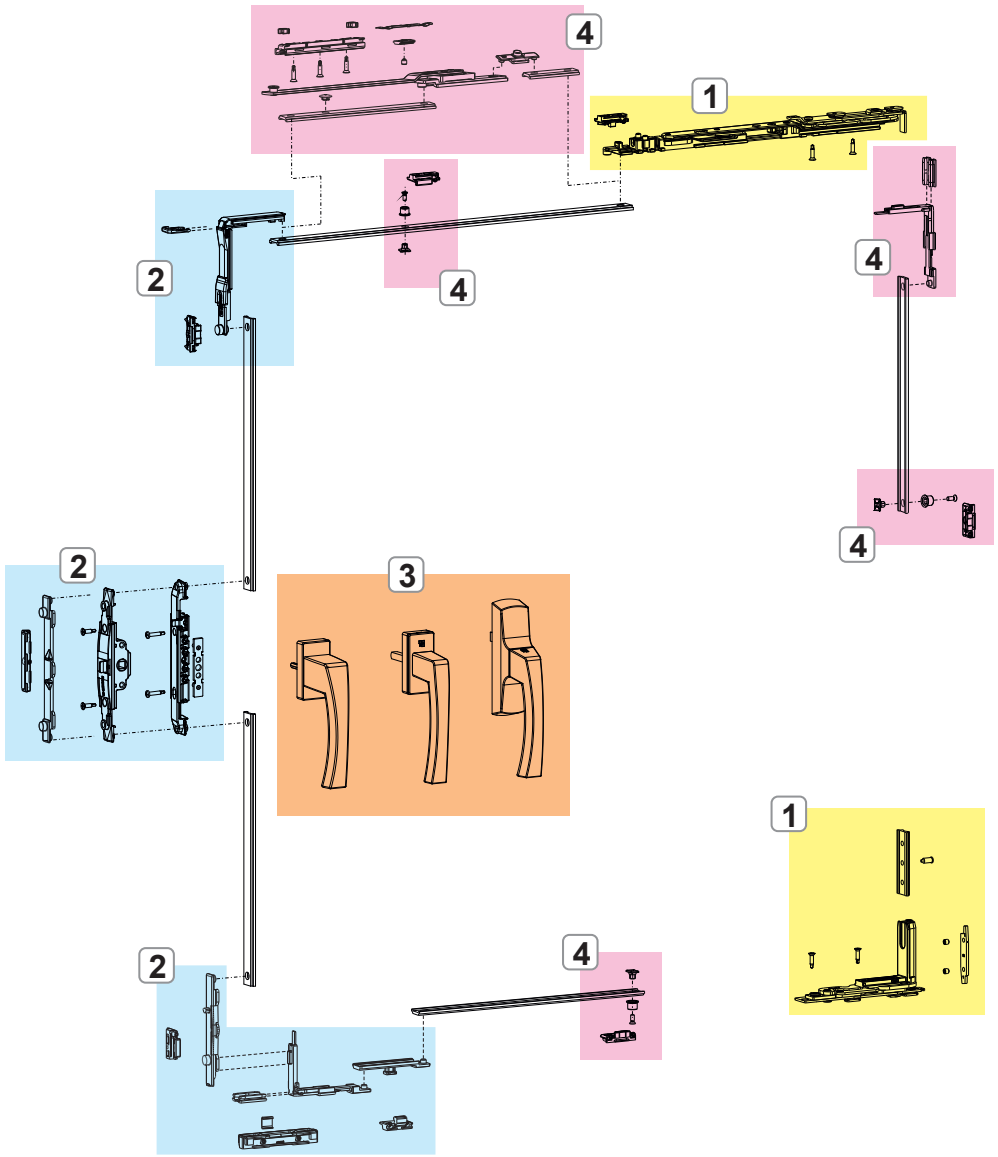
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
2800	124	124	124	124	124	124	124	124	124	124	124
2700	126	126	126	126	126	126	126	126	126	126	126
2600	128	128	128	128	128	128	128	128	128	128	128
2500	130	130	130	130	130	130	130	130	130	130	130
2400	130	130	130	130	130	130	130	130	130	130	130
2300	130	130	130	130	130	130	130	130	130	130	130
2200	130	130	130	130	130	130	130	130	130	130	130
2100	130	130	130	130	130	130	130	130	130	130	130
2000	130	130	130	130	130	130	130	130	130	130	130
1900	130	130	130	130	130	130	130	130	130	130	130
1800	130	130	130	130	130	130	130	130	130	130	130
1700	130	130	130	130	130	130	130	130	130	130	127
1600	130	130	130	130	130	130	130	130	130	127	119
1500	130	130	130	130	130	130	130	130	130	128	119	112
1400	130	130	130	130	130	130	130	130	129	119	111	104
1300	130	130	130	130	130	130	130	129	119	111	103	97
1200	130	130	130	130	130	130	130	119	110	102	95	
1100	130	130	130	130	130	130	119	109	101	94		
1000	130	130	130	130	130	119	108	99	92			
900	130	130	130	130	119	107	98	90				
800	130	130	130	119	106	95	87					
700	130	130	119	104	93	84						
600 / 470	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600

CHIC 3D 130 standard



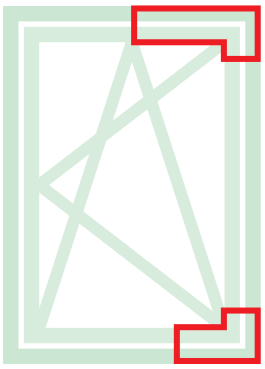
1. CHIC 3D 130 HINGES AND ARMS
2. CHIC 3D 130 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

CHIC 3D 130 logica



1. CHIC 3D 130 HINGES AND ARMS
2. CHIC 3D 130 FASTENING MECHANISMS
3. NP SUPRA CREMONES, WINDOW HANDLES AND MECHANISMS
4. CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE

CHIC 3D 130 HINGES AND ARMS



Online data sheet

Functions

Set of hinges (top and bottom), completely pre-assembled and ready to be installed on the profile.

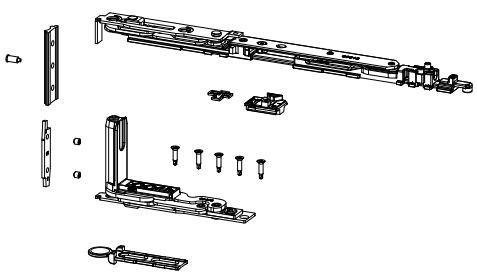
Technical Features

They enable tilt-and-turn opening combined with the mechanisms.
Micro-ventilation and logica versions.
The arm is equipped with micro-ventilation as standard (adjustable).
Moving the fastening pawl takes the arm from conventional to logica.
The T2 arm is adjustable: the opening "A" goes from 178 mm (base) to 148 mm.

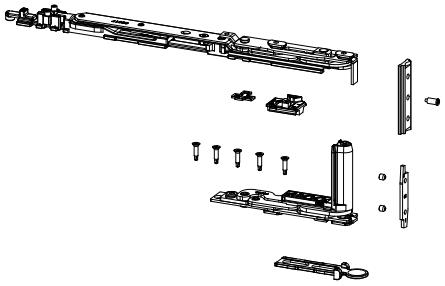
Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel
Connecting bracket and arm rod made of 304 grade stainless steel

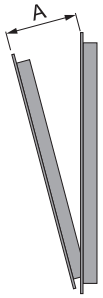
044252



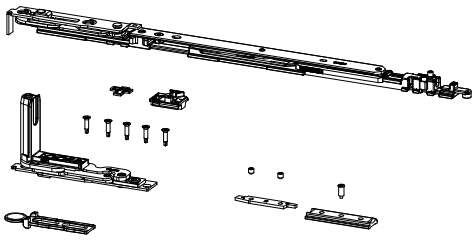
044251



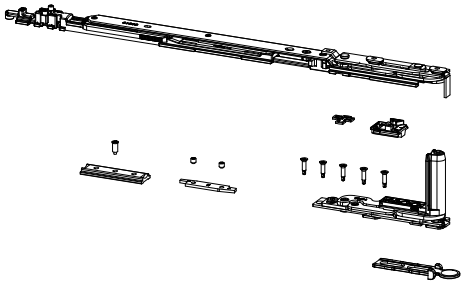
Sash opening



044262

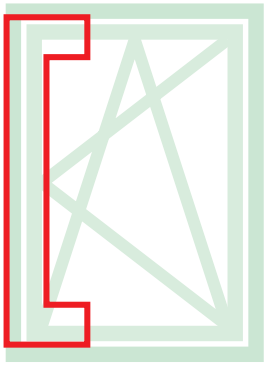


044261



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044251	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	98	RX	X				10
044252	CHIC - T1 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 470 ÷ 700	Micro	98	LX	X				10
044261	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1600	Micro	148÷178	RX	X				10
044262	CHIC - T2 ARM T&T KIT	C001-C002-C003-C004-C005-C006	L 600 ÷ 1600	Micro	148÷178	LX	X				10

CHIC 3D 130 FASTENING MECHANISMS



Online data sheet

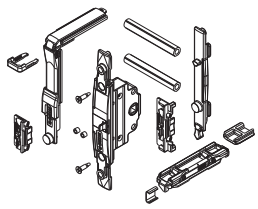
Functions

Tilt-and-Turn fastening mechanisms for cremone, window handle and NP SUPRA window handle, available in the Standard and Logica versions.

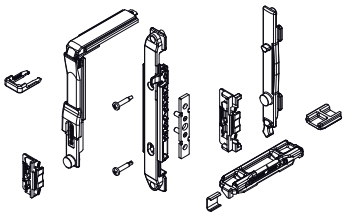
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

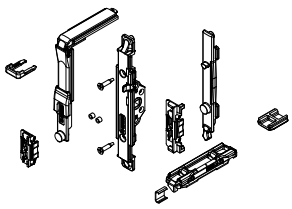
00947



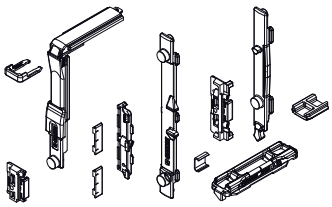
0395501



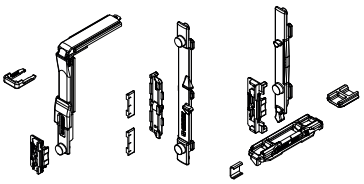
04371



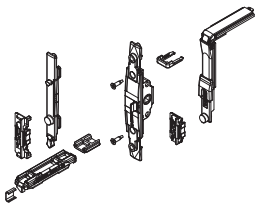
04704



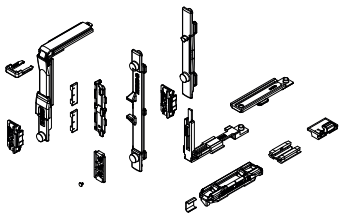
04704010



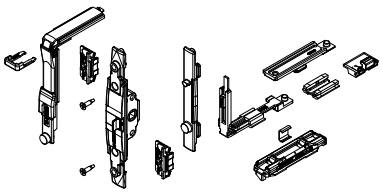
0470501



04706N

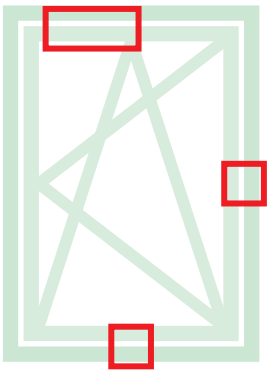


0470701



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C001-C003	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

CHIC 3D 130 ADDITIONAL FASTENING MECHANISMS AND HARDWARE



Online data sheet

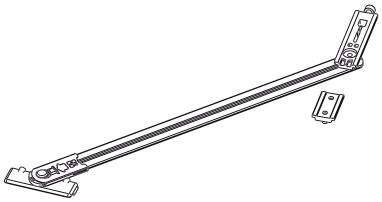
Functions

The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.

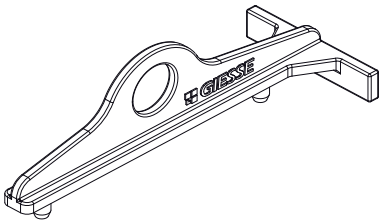
Technical Features

On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

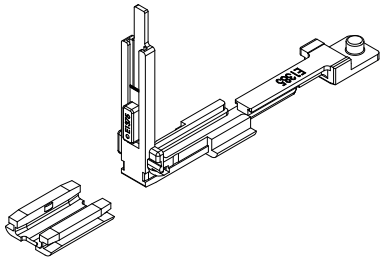
02030K



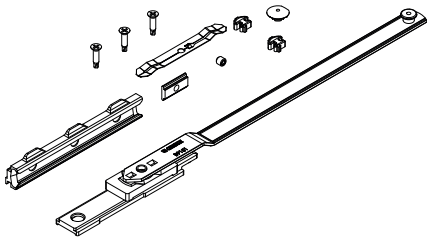
03535



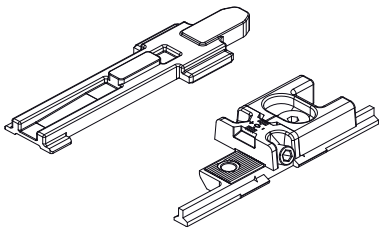
04024K



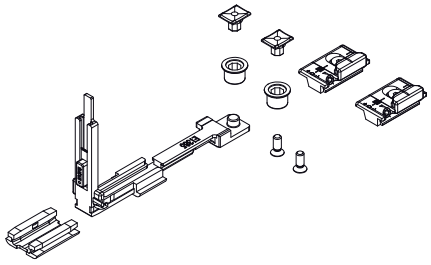
04301K



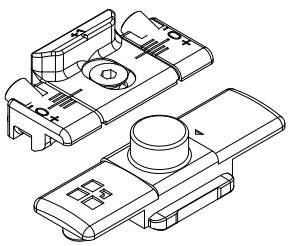
04357



04770K

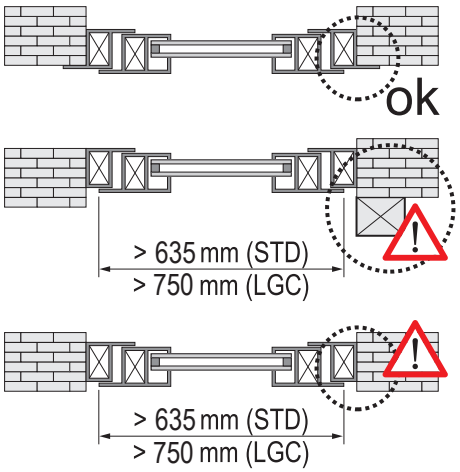


04777K

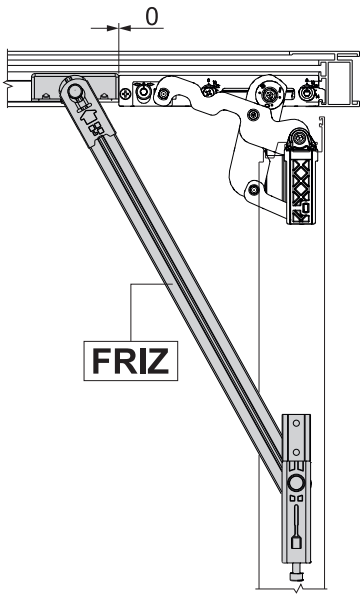


CHIC 3D 130

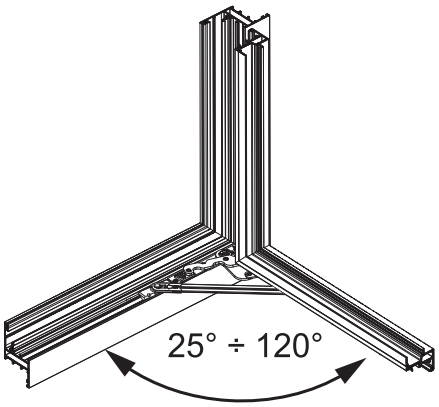
Mandatory to use the FRIZ arm



FRIZ arm positioning

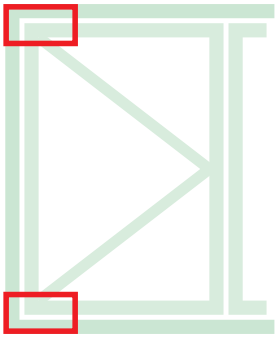


Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02030K	FRIZ STAY LIMITATION ARM	C001-C002-C004-C011-C012-C013-C014-C015-C016-C017	See picture	-	X				10
03535	CHIC - TEMPLATE FOR TILT-AND-TURN	C001-C002-C003-C004-C005-C006	-	-	X				10
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04357	CHIC - ARM ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

SECONDARY SASH HINGE SET FOR CHIC 3D 130



Online data sheet

Functions

Set of hinges (top and bottom) for side-hung or secondary sash with tilt-and-turn CHIC 3D 130.

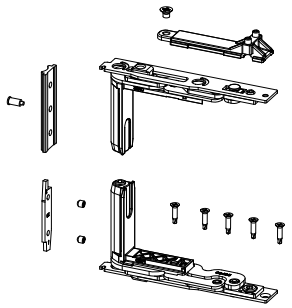
Technical Features

Sash opening to 180°.
Maximum load capacity 130 kg.
Assembly is simple, fast and easy using the special pre-assembled cams.
When there is an additional fastening mechanism, you need to use the CHIC fastening element.
Both hinges are adjustable (3D).
If opening is obstructed, you need to use the FRIZ limitation arm.

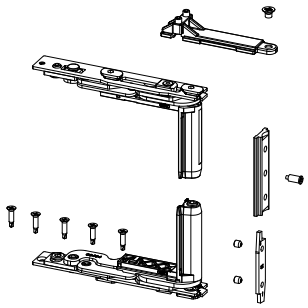
Materials

Corner support made of zamak
Connecting brackets and hinge plates made of zinc plated steel
Pins made of 304 grade stainless steel and aluminium bronze
Cams made of zinc plated steel

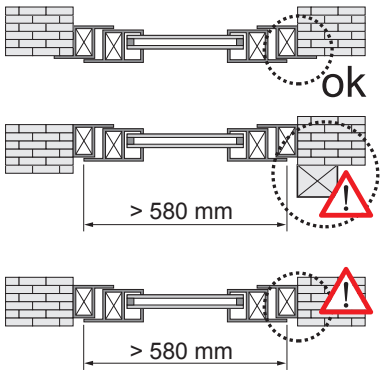
044242



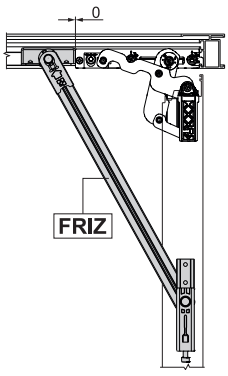
044241



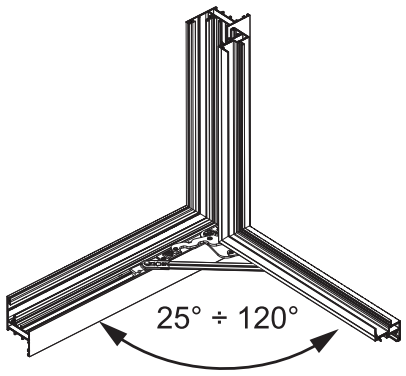
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044241	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	RX	X				10
044242	CHIC - SASH HINGE SET	C001-C002-C003-C004-C005-C006	LX	X				10

CONFIGURATION EXAMPLES

CHIC 3D 130

Micro configuration with Cremone

MAIN SASH			
Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	04301K
Cremone	01039 - 01094 - 01084	01039 - 01094 - 01084	01039 - 01094 - 01084
SECONDARY SASH			
Hinges	044241 - 044242	044241 - 044242	044241 - 044242
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with window handle

MAIN SASH			
Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	0470501	0470501	0470501
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	044241 - 044242	044241 - 044242	044241 - 044242
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with NP Supra

MAIN SASH			
Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	03955	03955	03955
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963
SECONDARY SASH			
Hinges	044241 - 044242	044241 - 044242	044241 - 044242
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica micro configuration with Cremone

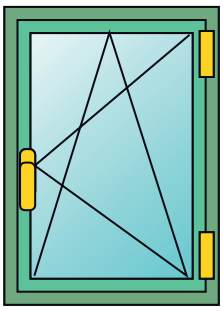
MAIN SASH			
Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	04301K
Cremone	01194 - 01087	01194 - 01087	01194 - 01087
SECONDARY SASH			
Hinges	044241 - 044242	044241 - 044242	044241 - 044242
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with window handle

MAIN SASH			
Sash width	470 ÷ 700	600 ÷ 1000	1001 ÷ 1600
Hinges + Arm	044251 - 044252	044261 - 044262	044261 - 044262
Mechanism	0470701	0470701	0470701
Additional arm	-	-	04301K
Window handle	02486	02486	02486
SECONDARY SASH			
Hinges	044241 - 044242	044241 - 044242	044241 - 044242
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

FUTURA 3D 130

FUTURA 3D 130



Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 140 kg.
Available in the standard, logic and microventilation versions.

FUTURA 3D 130 micro

FUTURA 3D 130 lgc

FUTURA 3D 130 micro lgc

Technical Features

Making a FUTURA 3D 130 tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

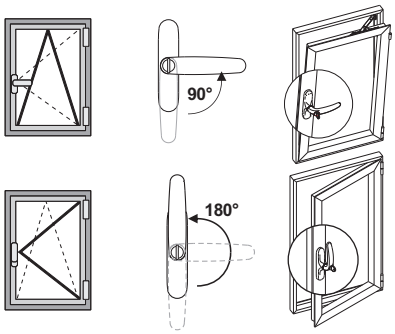
Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement. Available both as standard and with an additional device.

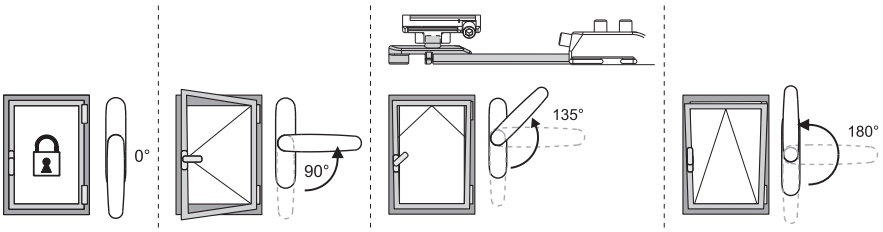
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

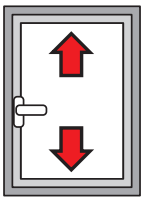
Logica mechanism operation



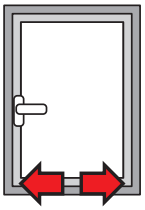
Standard microventilation



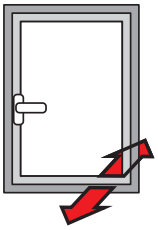
ADJUSTMENTS [mm]



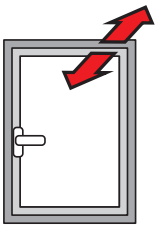
Height:
+1.5 / -0.5



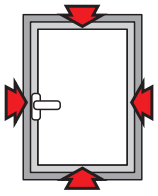
Side:
±1



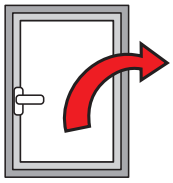
Bottom hinge compression:
±0.3



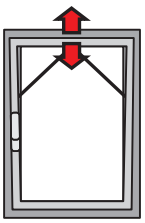
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]

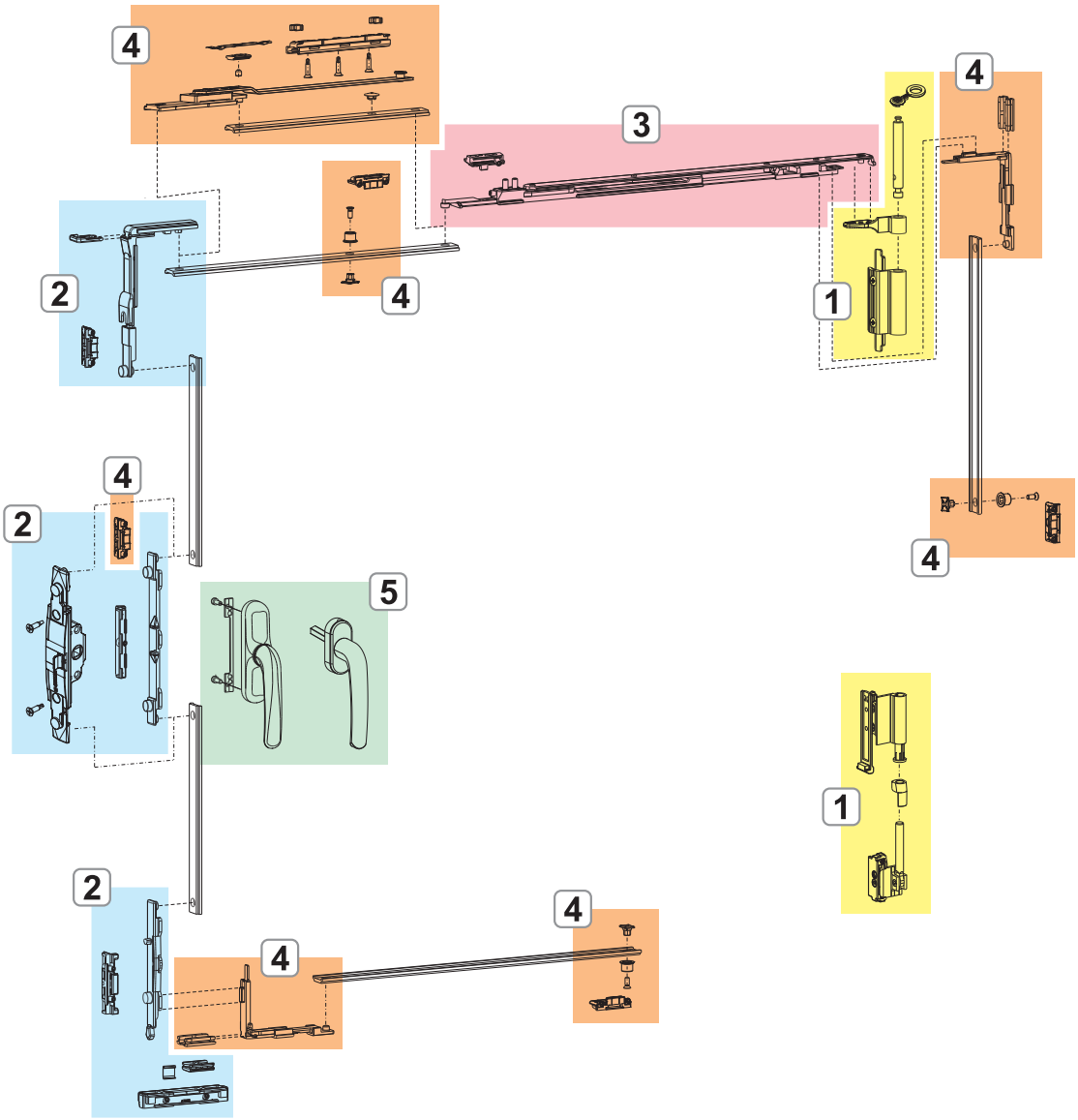
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3000	35	28	24	21	19	17	15	14	13	12	11	11	10	
2900	35	29	25	22	20	18	16	15	14	13	12	11	10	10
2800	36	30	26	23	20	18	17	15	14	13	12	11	11	10
2700	38	31	27	24	21	19	17	16	15	13	13	12	11	10
2600	39	33	28	25	22	20	18	16	15	14	13	12	12	11
2500	44	37	31	27	24	22	20	18	17	16	15	14	13	11
2400	46	38	33	29	25	23	21	19	18	16	15	14	13	12
2300	48	40	34	30	27	24	22	20	18	17	16	15	14	12
2200	50	42	36	31	28	25	23	21	19	18	17	16	15	13
2100	50	44	37	33	29	26	24	22	20	19	17	16	15	13
2000	50	46	39	34	31	27	25	23	21	20	18	17	16	14
1900	50	48	41	36	32	29	26	24	22	21	19	18	16	14
1800	50	50	44	38	34	31	28	25	23	22	20	18	16	14
1700	50	50	46	40	36	32	29	27	25	23	21	18	16	14
1600	50	50	49	43	38	34	31	29	26	24	21	18	16	14
1500	50	50	50	46	41	37	33	31	27	24	21	18	16	14
1400	50	50	50	49	44	39	36	32	27	24	21	18	16	
1300	50	50	50	50	47	42	38	32	27	24	21	18		
1200	50	50	50	50	50	46	38	32	27	24	21			
1100	50	50	50	50	50	46	38	32	27	24				
1000	50	50	50	50	50	46	38	32	27					
900	50	50	50	50	50	46	38	32						
800	50	50	50	50	50	46	38							
700	50	50	50	50	50	46								
600														
350														

Table of maximum load capacity [kg]

	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	130	130	130	130	130	130	130	130	130	130	130	130	130	
2900	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	**140**	130
1900	140	140	140	140	140	140	140	140	140	140	140	140	**139**	125
1800	140	140	140	140	140	140	140	140	140	140	140	140	**132**	118
1700	140	140	140	140	140	140	140	140	140	140	140	133	**125**	112
1600	140	140	140	140	140	140	140	140	140	140	140	134	126	**118**	118
1500	140	140	140	140	140	140	140	140	140	135	126	118	**111**	105
1400	140	140	140	140	140	140	140	140	137	127	118	111	**104**	99
1300	140	140	140	140	140	140	140	138	127	118	110	104	**97**	
1200	140	140	140	140	140	140	140	128	118	110	103	96		
1100	140	140	140	140	140	140	129	118	109	101	95			
1000	140	140	140	140	140	130	118	108	100	93				
900	140	140	140	140	131	118	108	99	91					
800	140	140	140	133	118	106	97	89						
700	140	140	135	118	105	95	86							
600	140	138	118	104	92	83								
350														

FUTURA 3D
130 micro

Futura 3D 130 traditional

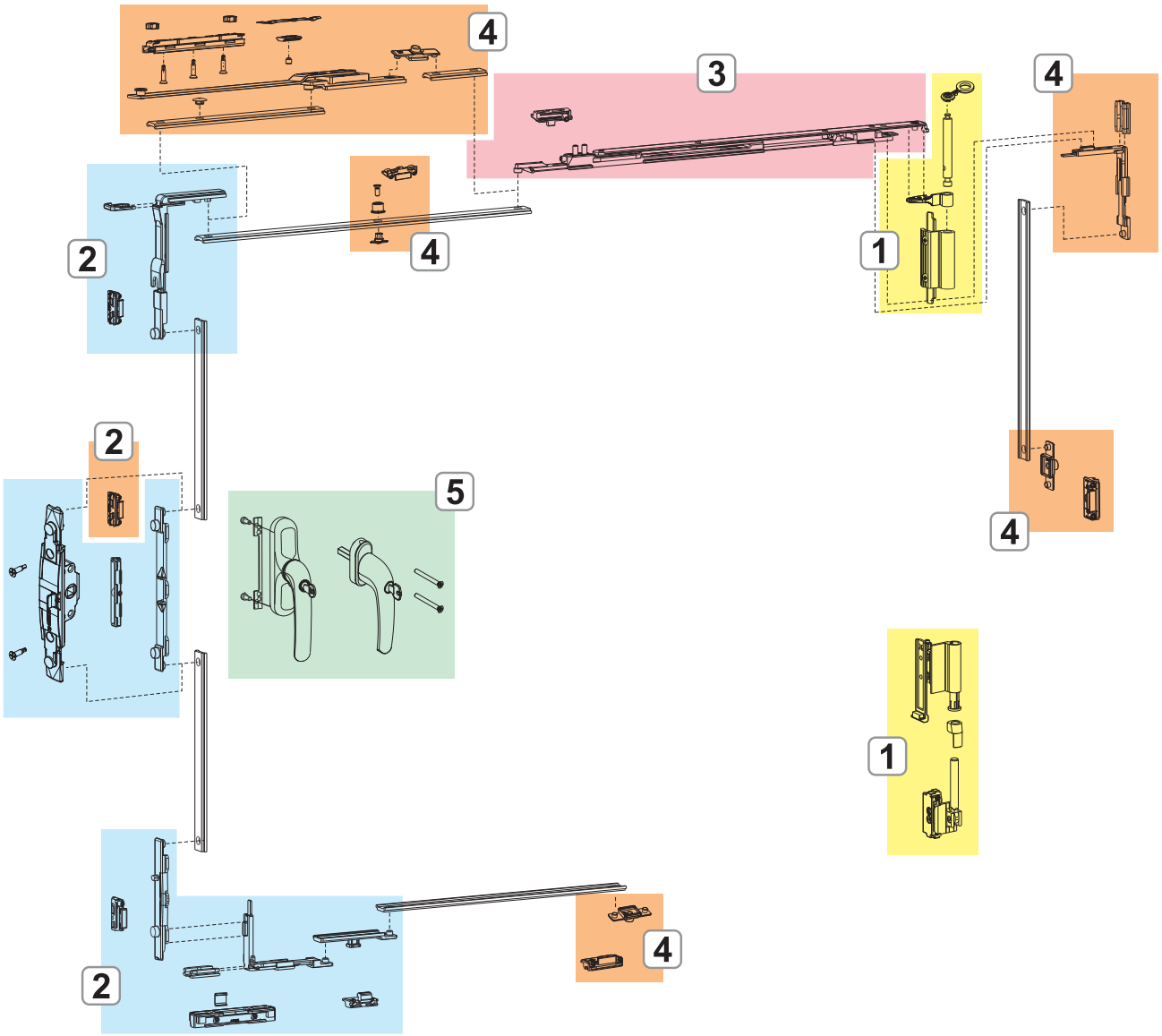


1. FUTURA 3D 130 HINGES
2. FUTURA 3D 130 FASTENING MECHANISMS
3. FUTURA 3D 130 ARMS
4. FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

FUTURA 3D 130 lgc

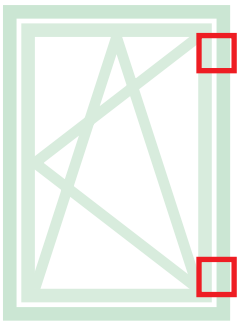
FUTURA 3D 130 micro lgc

Futura 3D 130 logica



1. FUTURA 3D 130 HINGES
2. FUTURA 3D 130 FASTENING MECHANISMS
3. FUTURA 3D 130 ARMS
4. FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

FUTURA 3D 130 HINGES



Online data sheet

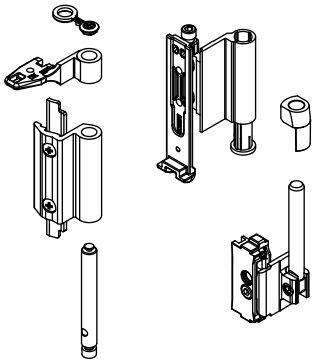
Functions

Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.

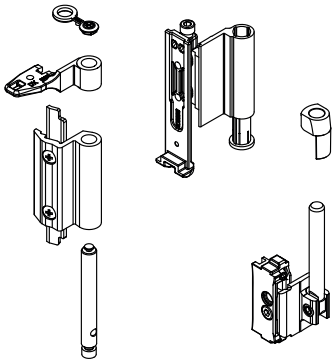
Materials

Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04711

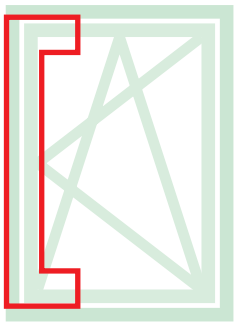


04711010



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04711	HINGE T/T FUTURA 130	C001-C002-C005-C006	X		X	X	10
04711010	HINGE T/T FUTURA 130	C003	X		X		10

FUTURA 3D 130 FASTENING MECHANISMS



Online data sheet

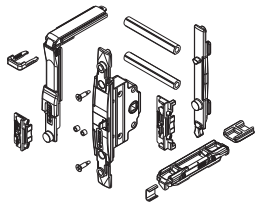
Functions

Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions

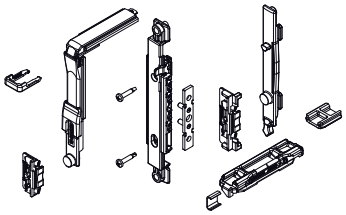
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

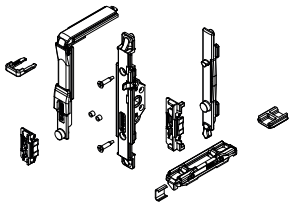
00947



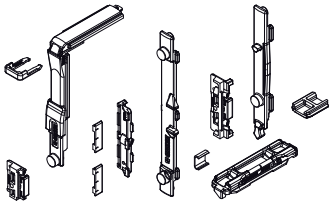
03955



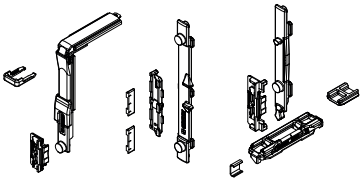
04371



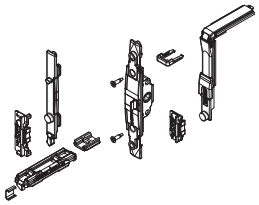
04704



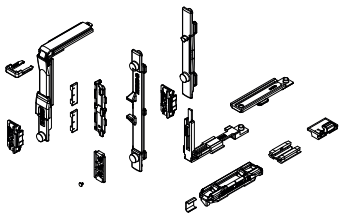
04704010



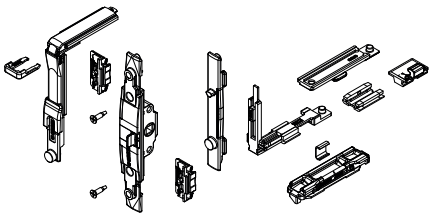
0470501



04706N

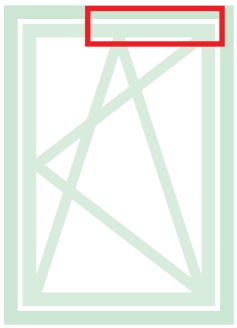


0470701



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C001-C003	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

FUTURA 3D 130 ARMS



Online data sheet

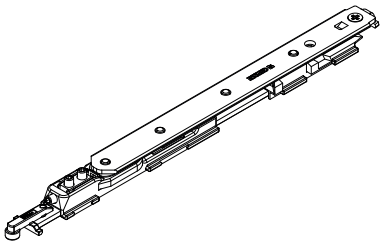
Functions

They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).

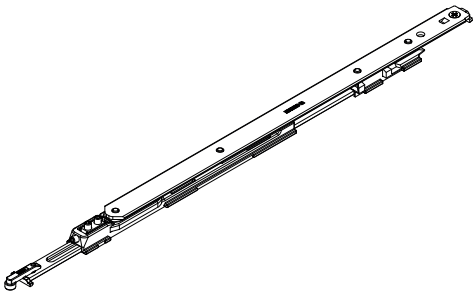
Materials

Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel.
Stop disk in polyamide.

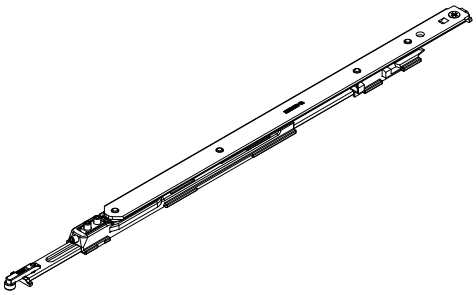
04202



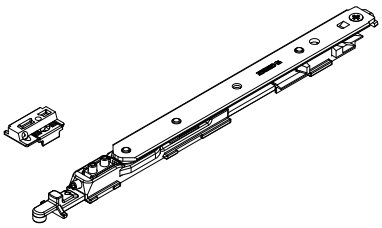
04203



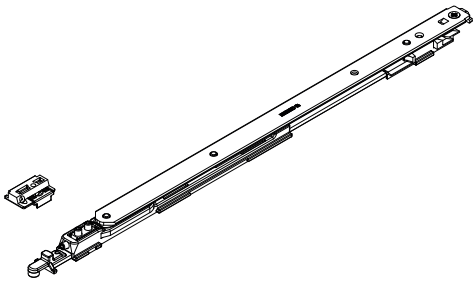
04222



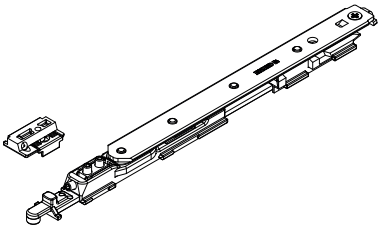
04284



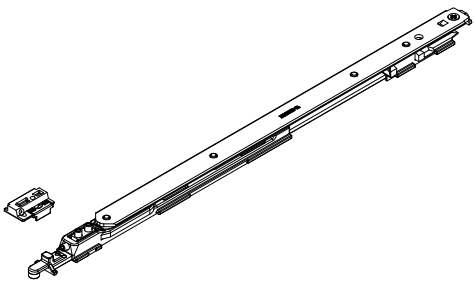
04285



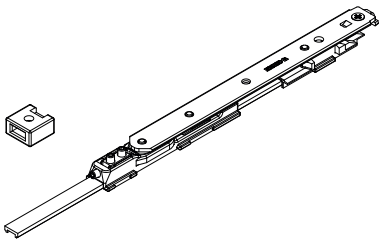
04344



04345

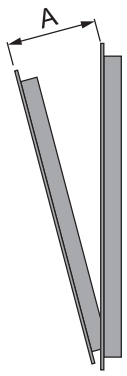


04353



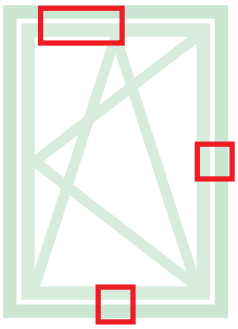
FUTURA 3D 130

Sash opening



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120					10
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175					10
04222	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	160					10
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Micro	120					10
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Micro	175					10
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 410 ÷ 700	Logica Micro	120					10
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175					10
04353	ARM TYPE 0 T/T FUTURA 130	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	W 350 ÷ 410	-	120					10

FUTURA 3D 130 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

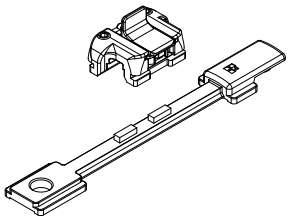


Online data sheet

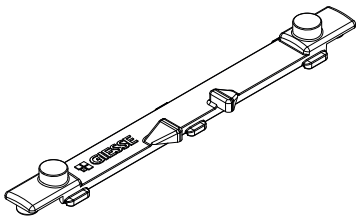
Functions

The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

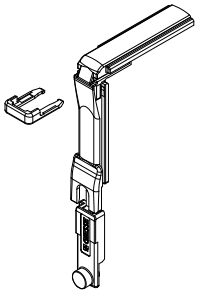
01299



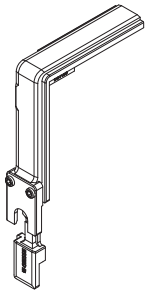
04014K



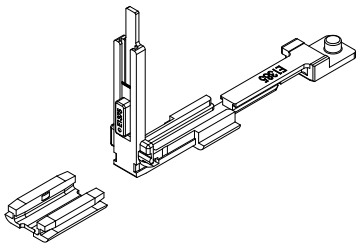
04019K



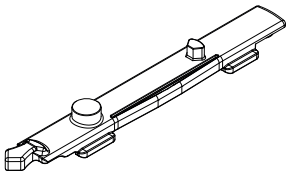
04020K



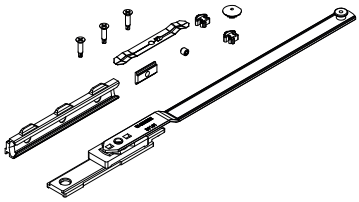
04024K



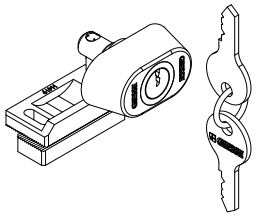
04026K



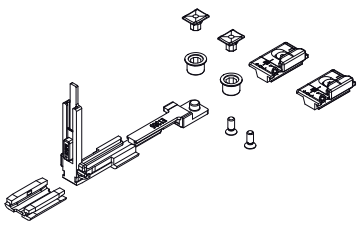
04301K



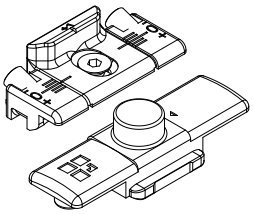
04311



04770K



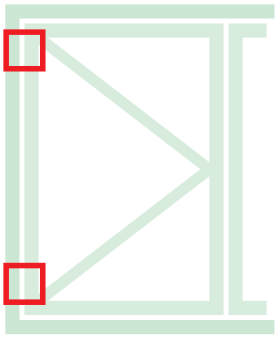
04777K



FUTURA 3D 130

Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

FUTURA 3D 130 SECONDARY SASH



Online data sheet

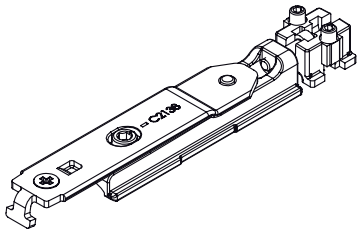
Functions

FUTURA 3D 130 features specific hinges for the secondary sash, with the same styling line and the same adjustments.

Materials

Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04728



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04728	FUTURA 3D 130 SECONDARY SASH ADAPTER	C001-C002-C003-C004-C005-C006	X				10

CONFIGURATION EXAMPLES

FUTURA 3D 130

Micro configuration with Cremone

MAIN SASH			
Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Arm	04284	04285	04285
Additional arm	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with window handle

MAIN SASH			
Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	0470501	0470501	0470501
Arm	04284	04285	04285
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with NP Supra

MAIN SASH			
Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	0395501	0395501	0395501
Arm	04284	04285	04285
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with Cremone

MAIN SASH			
Sash width	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Arm	04202	04203	04203
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with window handle

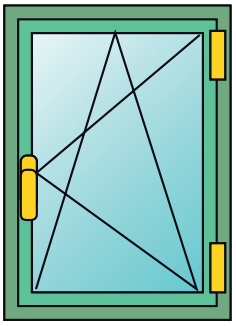
MAIN SASH			
Sash width	390 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	0470701	0470701	0470701
Arm	04202	04203	04203
Additional arm	-	-	04301K
Window handle	02486	02486	02486
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica micro configuration with Cremone

MAIN SASH			
Sash width	410 ÷ 700	701 ÷ 1000	1001 ÷ 1800
Hinges	04711	04711	04711
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Arm	04344	04345	04345
Additional arm	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195
SECONDARY SASH			
Hinges	04711	04711	04711
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

FUTURA 3D 170 HP INVISIBLE

FUTURA 3D 170 HP Invisible



Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 170 kg. Available in the standard, logic and microventilation versions.

FUTURA 3D 170 HP Invisible

FUTURA 3D 170 HP Invisible lgc

FUTURA 3D 170 HP Invisible micro

Technical Features

Making a FUTURA 3D 170 HP Invisible tilt-and-turn window mechanism requires:
- Hinges and arms kit
- Set of fastening mechanisms for Cremones and window handles
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

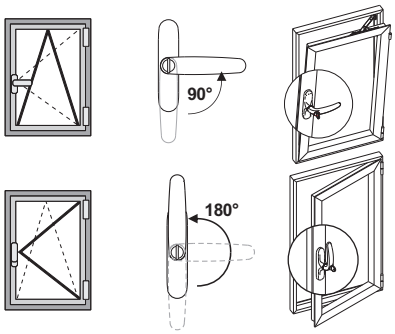
Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement. Available both as standard and with an additional device.

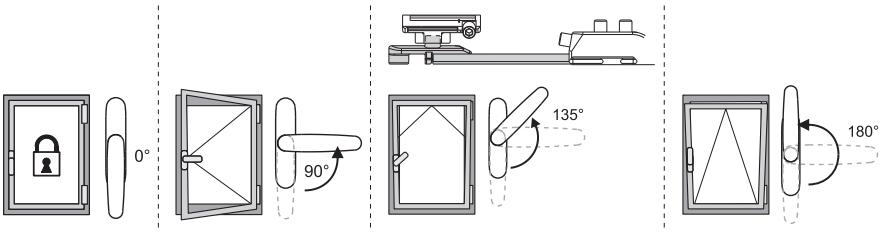
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

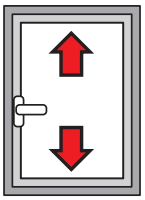
Logica mechanism operation



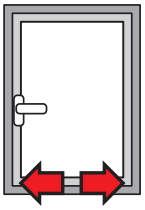
Standard microventilation



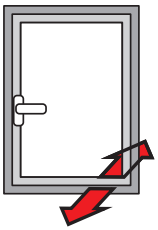
ADJUSTMENTS [mm]



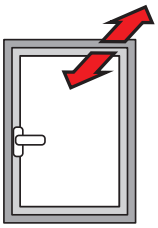
Height:
+1.5 / -0.5



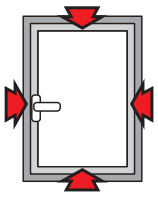
Side:
±1



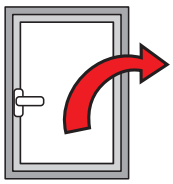
Bottom hinge compression:
±0.3



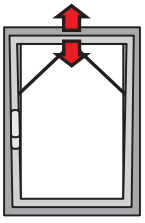
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]
(weight less than 130 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	36	31	27	24	22	20	18	17	15	14	14	13	
2400	45	41	38	32	28	25	23	21	19	17	16	15	14	13	
2300	47	43	39	34	30	26	24	21	20	18	17	16	15	14	
2200	50	45	41	35	31	28	25	23	21	19	18	17	15	15	
2100	50	47	43	37	33	29	26	24	22	20	19	17	16	15	
2000	50	50	46	39	34	30	27	25	23	21	20	18	17	16	
1900	50	50	48	41	36	32	29	26	24	22	21	19	18	17	
1800	50	50	50	44	38	34	31	28	25	24	22	20	19	18	
1700	50	50	50	46	41	36	33	30	27	25	23	22	20	19	
1600	50	50	50	50	43	39	35	32	29	27	25	23	22	19	
1500	50	50	50	50	46	41	37	34	31	29	27	25	22	19	
1400	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1300	50	50	50	50	50	48	43	39	36	33	29	25	22		
1200	50	50	50	50	50	50	47	43	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

Table of maximum load capacity [kg]
(weight less than 130 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2400	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2300	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2200	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2100	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
2000	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1900	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
1600	130	130	130	130	130	130	130	130	130	130	130	130	130	122	
1500	130	130	130	130	130	130	130	130	130	130	130	130	121	114	
1400	130	130	130	130	130	130	130	130	130	130	130	121	113	106	
1300	130	130	130	130	130	130	130	130	130	130	120	111	104		
1200	130	130	130	130	130	130	130	130	130	119	110	102			
1100	130	130	130	130	130	130	130	130	118	108	100				
1000	130	130	130	130	130	130	130	117	106	98					
900	130	130	130	130	130	130	116	104	95						
800	130	130	130	130	130	114	101	91							
700	130	130	130	130	111	98	87								
600															

Table of maximum glass thickness [mm]
(weight up to 170 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	43	39	47	40	35	31	28	26	24	22	20	19	18	17	
2400	45	41	49	42	37	33	30	27	25	23	21	20	18	17	
2300	47	43	50	44	39	34	31	28	26	24	22	21	19	18	
2200	50	45	50	46	40	36	32	29	27	25	23	22	20	19	
2100	50	47	50	49	43	38	34	31	28	26	24	23	21	19	
2000	50	50	50	50	45	40	36	33	30	28	26	24	22	19	
1900	50	50	50	50	47	42	38	34	31	29	27	25	22	19	
1800	50	50	50	50	50	44	40	36	33	31	29	25	22	19	
1700	50	50	50	50	50	47	43	39	35	33	29	25	22	19	
1600	50	50	50	50	50	50	45	41	38	33	29	25	22	19	
1500	50	50	50	50	50	50	49	44	39	33	29	25	22	19	
1400	50	50	50	50	50	50	50	47	39	33	29	25	22	19	
1300	50	50	50	50	50	50	50	47	39	33	29	25	22		
1200	50	50	50	50	50	50	50	47	39	33	29	25			
1100	50	50	50	50	50	50	50	47	39	33	29				
1000	50	50	50	50	50	50	50	47	39	33					
900	50	50	50	50	50	50	50	47	39						
800	50	50	50	50	50	50	50	47							
700	50	50	50	50	50	50	50								
600															

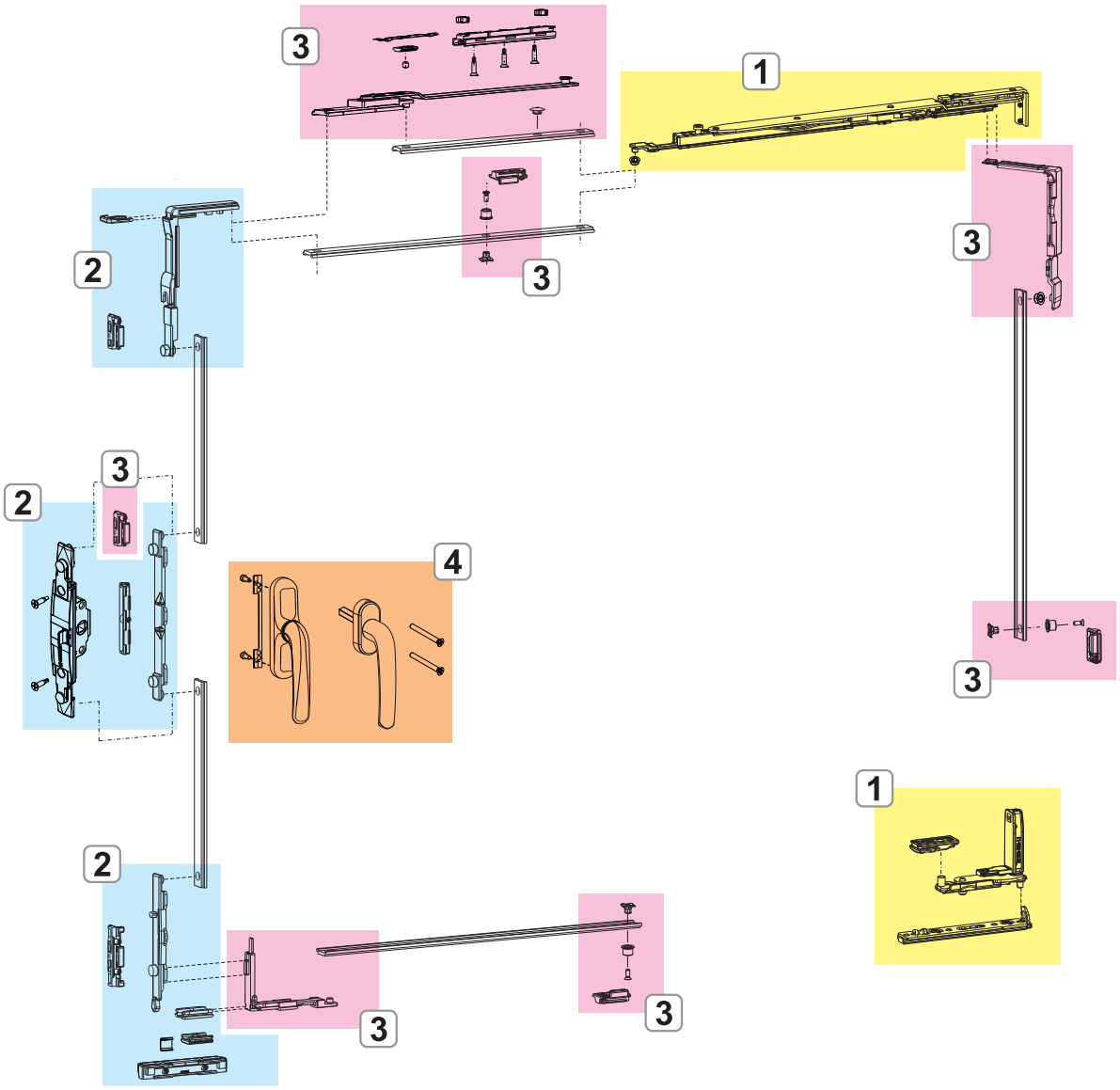
Table of maximum load capacity [kg]
(weight up to 170 kg)

	430	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2400	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2300	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2200	130	130	170	170	170	170	170	170	170	170	170	170	170	170	
2100	130	130	170	170	170	170	170	170	170	170	170	170	170	163	
2000	130	130	170	170	170	170	170	170	170	170	170	170	165	154	
1900	130	130	170	170	170	170	170	170	170	170	170	167	156	146	
1800	130	130	170	170	170	170	170	170	170	170	170	158	147	138	
1700	130	130	170	170	170	170	170	170	170	170	160	149	139	130	
1600	130	130	170	170	170	170	170	170	170	163	150	139	130	122	
1500	130	130	170	170	170	170	170	170	165	152	140	130	121	114	
1400	130	130	170	170	170	170	170	169	154	141	130	121	113	106	
1300	130	130	170	170	170	170	170	156	142	130	120	111	104		
1200	130	130	170	170	170	170	159	143	130	119	110	102			
1100	130	130	170	170	170	163	144	130	118	108	100				
1000	130	130	170	170	167	146	130	117	106	98					
900	130	130	170	170	149	130	116	104	95						
800	130	130	165	152	130	114	101	91							
700	130	130	142	130	111	98	87								
600															

FUTURA 3D 170 HP Invisible

FUTURA 3D 170 HP Invisible micro

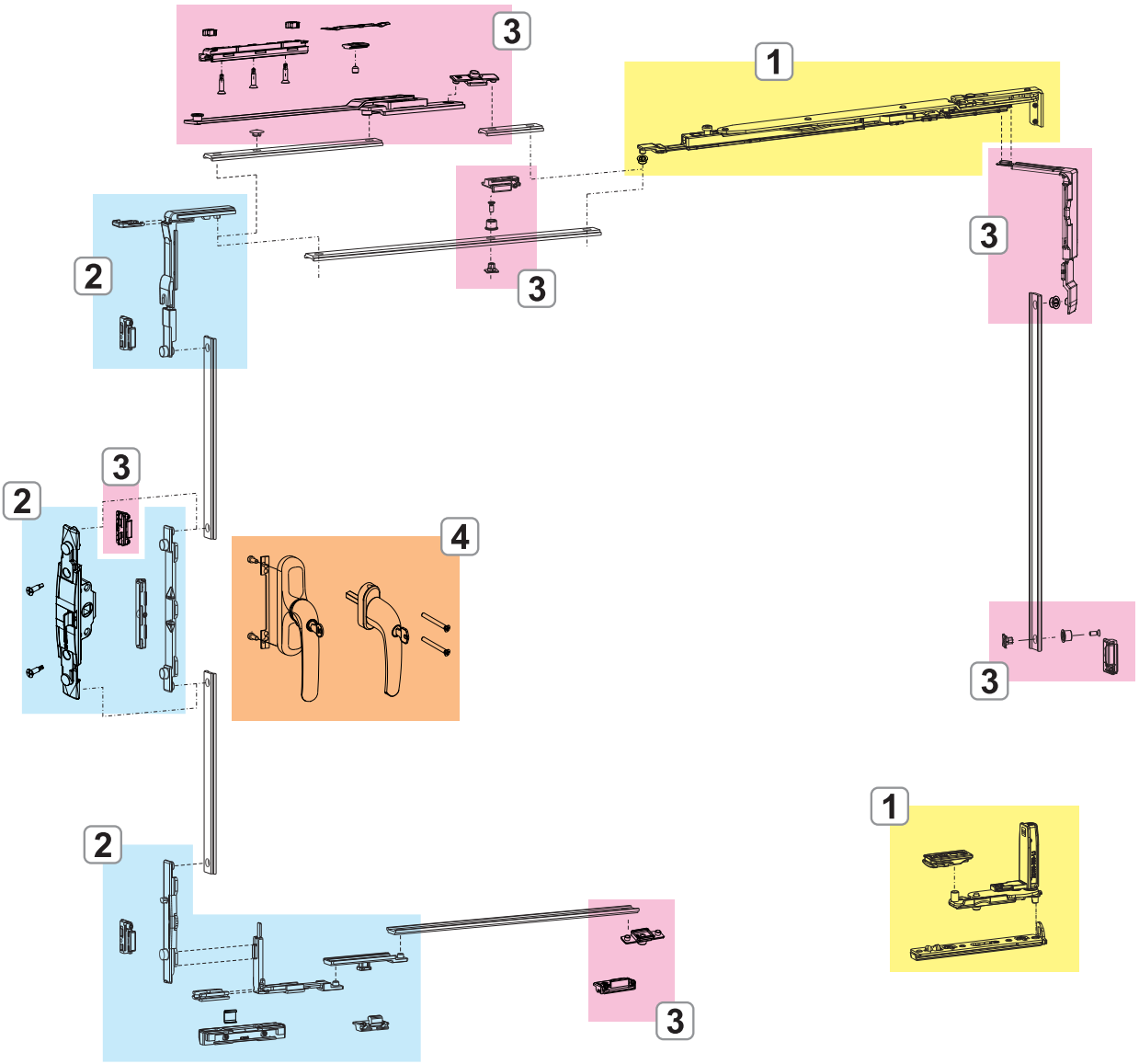
Futura 3D 170 HP Invisible traditional



1. FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS
2. FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS
3. FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES AND WINDOW HANDLES

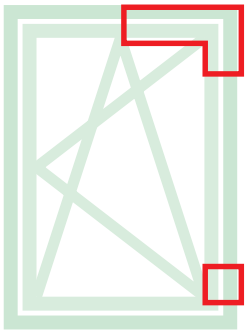
FUTURA 3D
170 HP Invisible lgc

Futura 3D 170 HP Invisible logica



1. FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS
2. FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS
3. FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES AND WINDOW HANDLES

FUTURA 3D 170 HP INVISIBLE HINGES AND ARMS



Functions

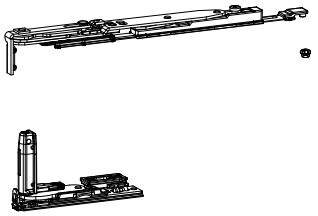
Hinges (upper and lower) and arm kit, completely pre-assembled and ready to be installed on the profile.

Materials

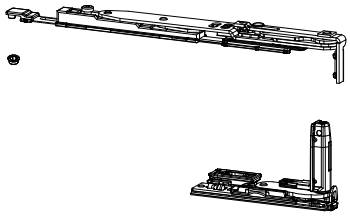
Body of hinges and arms in stainless steel and zamak.
Rod, connecting bracket, pins, screws and grub screws in stainless steel.

Online data sheet

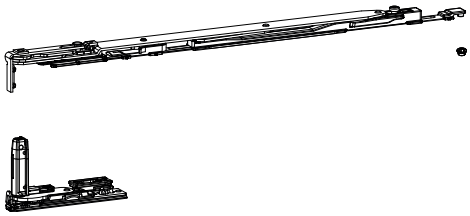
T/T Futura 170 Invisible Kit (420÷640) - LX



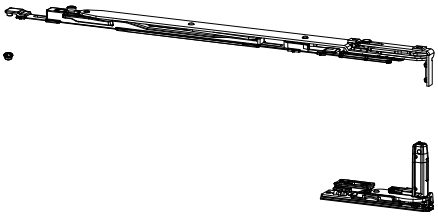
T/T Futura 170 Invisible Kit (420÷640) - RX



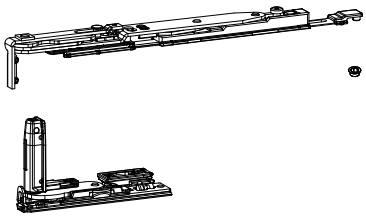
T/T Futura 170 Invisible Kit (641÷1700) - LX



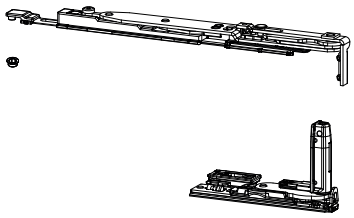
T/T Futura 170 Invisible Kit (641÷1700) - RX



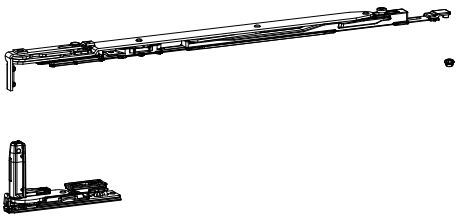
T/T Futura 170 Invisible Kit LGC (420÷640) - LX



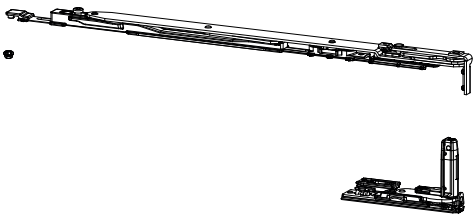
T/T Futura 170 Invisible Kit LGC (420÷640) - RX



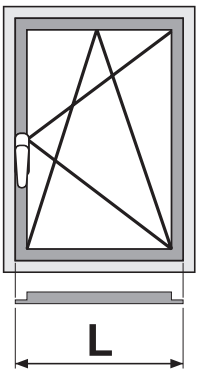
T/T Futura 170 Invisible Kit LGC (641÷1700) - LX



T/T Futura 170 Invisible Kit LGC (641÷1700) - RX

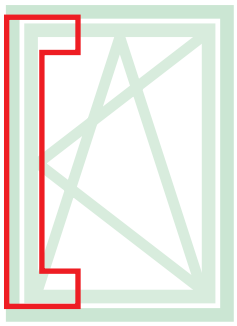


FUTURA 3D 170 HP INVISIBLE



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
042061	T/T FUTURA 170 INVISIBLE KIT	C001	W 430 ÷ 640	-	RX	X				5
042062	T/T FUTURA 170 INVISIBLE KIT	C001	W 430 ÷ 640	-	LX	X				5
042071	T/T FUTURA 170 INVISIBLE KIT	C001	W 641 ÷ 1700	-	RX	X				5
042072	T/T FUTURA 170 INVISIBLE KIT	C001	W 641 ÷ 1700	-	LX	X				5
042091	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 641 ÷ 1700	Logica	RX	X				5
042092	AR FUTURA 170 INVISIBLE LGC KIT	C001	W 641 ÷ 1700	Logica	LX	X				5

FUTURA 3D 170 HP INVISIBLE FASTENING MECHANISMS



Online data sheet

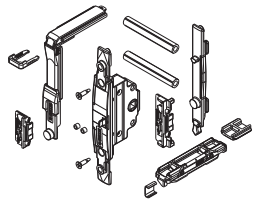
Functions

Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.

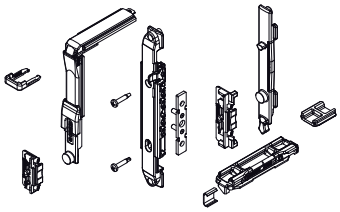
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

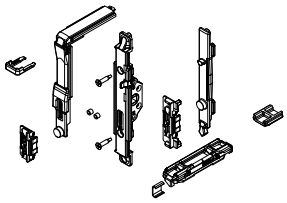
00947



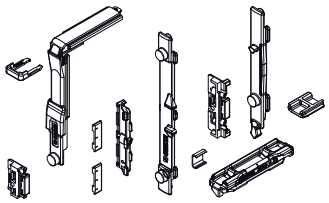
0395501



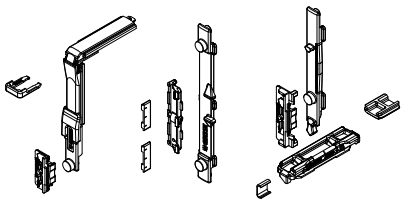
04371



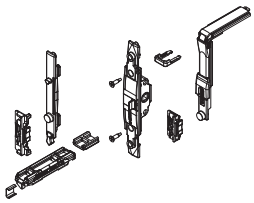
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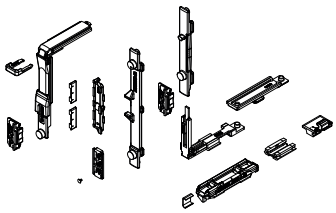
04704010



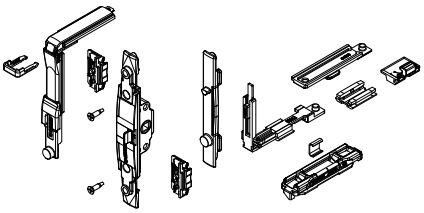
0470501



04706N

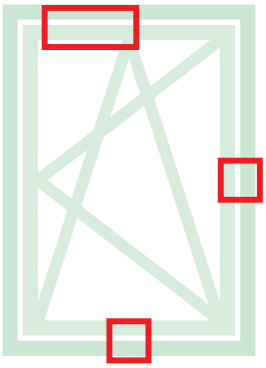


0470701



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

FUTURA 3D 170 HP INVISIBLE ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

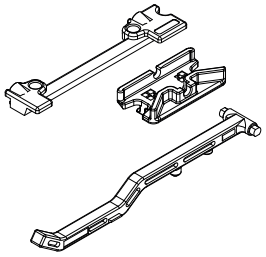


Online data sheet

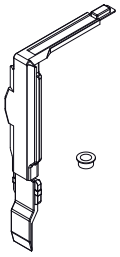
Functions

The FUTURA 3D 170 HP Invisible tilt-and-turn window has a basic load capacity of 130 kg, to obtain a maximum load capacity of 170 kg you need to use the reinforcement set. This product is designed for sash profiles with a smooth channel. In the case of profiles with a machined channel, shims of 1.5 mm and 2 mm must be used.
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.
The micro-ventilation device can be fitted at any time, even after the window is installed. When activated with the cremone at 180° there is micro-ventilation (precision sash opening), when it is not activated, with the cremone at 180° there is tilt-and-turn opening.

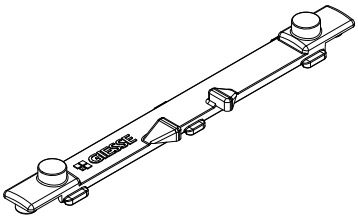
02234K



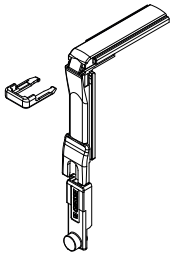
04012



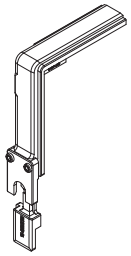
04014K



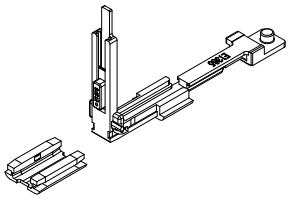
04019K



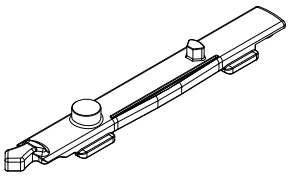
04020K



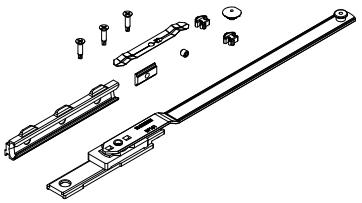
04024K



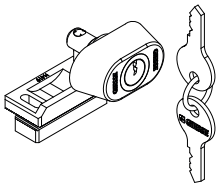
04026K



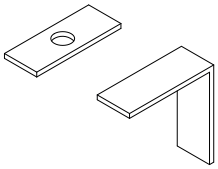
04301K



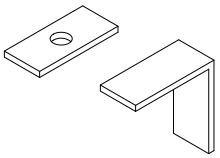
04311



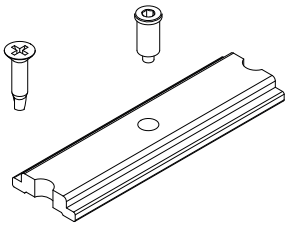
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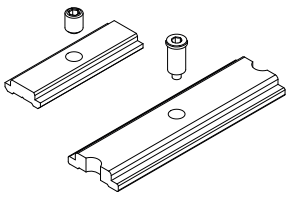
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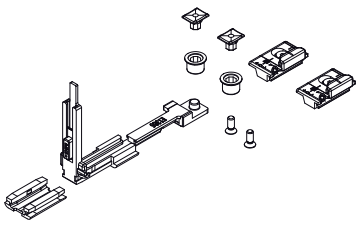
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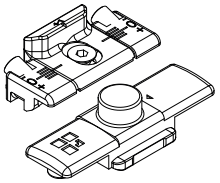
04411



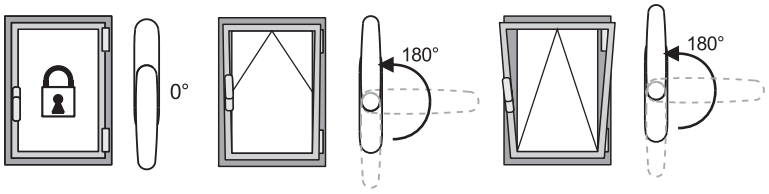
04770K



04777K

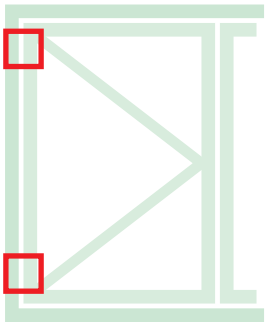


Micro-ventilation



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02234K	MICRO-VENTILATION DEVICE	C001-C002-C003	-	Micro	X				25
04012	CORNER DRIVE FOR FUTURA 170HP INVISIBLE	C001-C002-C003	H > 1200	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04406	SHIMS FOR FUTURA 3D 170 HP INVISIBLE	C001-C002-C003	1,5	-	X				10
04407	SHIMS FOR FUTURA 3D 170 HP INVISIBLE	C001-C002-C003	2	-	X				10
04409	REINFORCEMENT FOR FUTURA 170 HP INVISIBLE	C001-C002	130 -> 170 Kg	-	X				10
04411	REINFORCEMENT FOR FUTURA 170 HP INVISIBLE	C003	130 -> 170 Kg	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

FUTURA 3D 170 HP INVISIBLE SECONDARY SASH



Functions

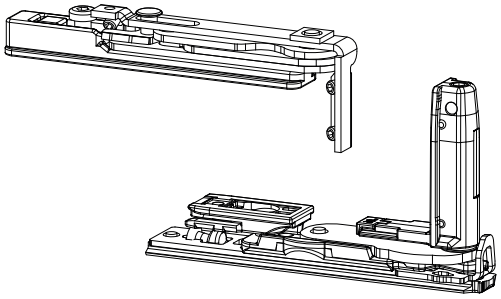
FUTURA 3D 170 HP Invisible features specific hinges for the secondary sash, with the same retractable styling line and the same adjustments.

Materials

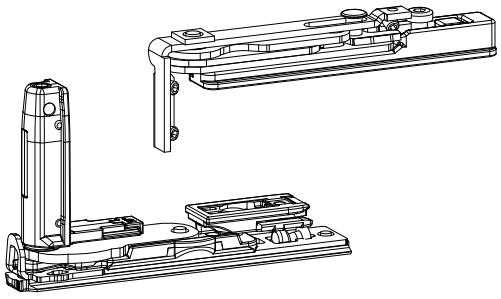
Body of hinges in stainless steel and zamak.
Pins, screws and grub screws in stainless steel.

Online data sheet

044001



044002



Item code	Description	PROFILE CROSS - SECTION	Hand	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
044001	INVISIBLE SECONDARY SASH HINGE KIT	C001	RX	X				10
044002	INVISIBLE SECONDARY SASH HINGE KIT	C001	LX	X				10

CONFIGURATION EXAMPLES

FUTURA 3D 170 HP INVISIBLE

Basic configuration with Cremone

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206	04207	04207
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Additional arm	-	-	04301K
Cremone	01039 - 01090K	01039 - 01090K	01039 - 01090K
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Basic configuration with window handle

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206	04207	04207
Mechanism	0470501	0470501	0470501
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with Cremone

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206	04207	04207
Mechanism	04704 - 04704010	04704 - 04704010	04704 - 04704010
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
Cremone	01039 - 01090K	01039 - 01090K	01039 - 01090K
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with window handle

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206	04207	04207
Mechanism	0470501	0470501	0470501
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with NP Supra

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04206	04207	04207
Mechanism	0395501	0395501	0395501
Micro-ventilation	02234K	02234K	02234K
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with Cremone

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208	04209	04209
Mechanism	04706N - 04706010N	04706N - 04706010N	04706N - 04706010N
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with window handle

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208	04209	04209
Mechanism	0470701	0470701	0470701
Additional arm	-	-	04301K
Window handle	02486	02486	02486
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

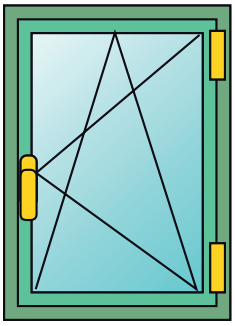
Logica configuration with NP Supra

MAIN SASH			
Sash width	430 ÷ 640	641 ÷ 1000	1001 ÷ 1700
Hinges and arm	04208	04209	04209
Mechanism	0395501	0395501	0395501
Additional arm	-	-	04301K
NP Supra	03962 - 03963	03962 - 03963	03962 - 03963
SECONDARY SASH			
Hinges	04400	04400	04400
Adjustable Bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

FUTURA 3D 80 FLUSH

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 90 kg. Available in the standard, logic and microventilation versions.



Technical Features

Making a FUTURA 3D 80 Flush tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

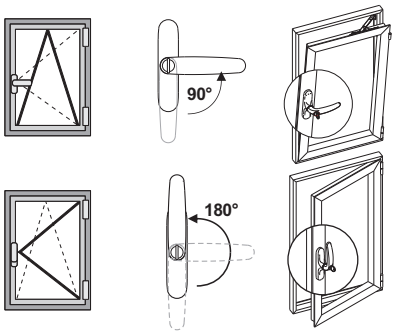
Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement. Available both as standard and with an additional device.

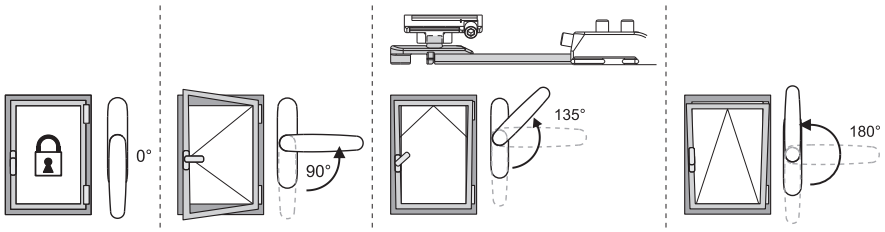
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

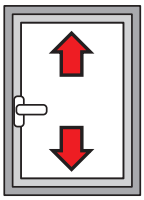
Logica mechanism operation



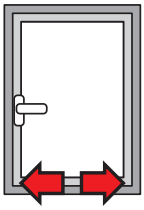
Standard microventilation



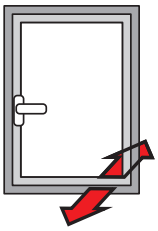
ADJUSTMENTS [mm]



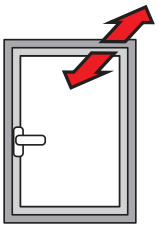
Height:
+1.5 / -0.5



Side:
±1



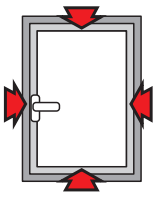
Bottom hinge compression:
±0.3



Top hinge compression:
±1.5

Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500		28	24	20	18	16	14	13	12	11	10	9	9	8
2400		29	25	21	18	16	15	13	12	11	11	10	9	9
2300		31	26	22	19	17	15	14	13	12	11	10	10	9
2200		32	27	23	20	18	16	15	13	12	11	11	10	9
2100		34	28	24	21	19	17	15	14	13	12	11	11	10
2000		35	29	25	22	20	18	16	15	14	13	12	11	10
1900		37	31	27	23	21	19	17	15	14	13	12	12	11
1800		39	33	28	25	22	20	18	16	15	14	13	12	11
1700		42	35	30	26	23	21	19	17	16	15	14	13	11
1600		42	37	32	28	25	22	20	18	17	16	14	13	11
1500		42	39	34	29	26	24	21	20	18	16	14	13	11
1400		42	42	36	32	28	25	23	21	19	16	14	13	11
1300		42	42	39	34	30	27	25	22	19	16	14	13	
1200		42	42	42	37	33	29	27	22	19	16	14		
1100		42	42	42	40	36	32	27	22	19	16			
1000		42	42	42	42	39	32	27	22	19				
900		42	42	42	42	40	32	27	22					
800		42	42	42	42	40	32	27						
700	600	42	42	42	42	40	32							



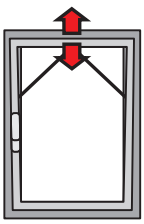
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5

Table of maximum load capacity [kg]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500		90	90	90	90	90	90	90	90	90	90	90	90	90
2400		90	90	90	90	90	90	90	90	90	90	90	90	90
2300		90	90	90	90	90	90	90	90	90	90	90	90	90
2200		90	90	90	90	90	90	90	90	90	90	90	90	90
2100		90	90	90	90	90	90	90	90	90	90	90	90	90
2000		90	90	90	90	90	90	90	90	90	90	90	90	90
1900		90	90	90	90	90	90	90	90	90	90	90	90	90
1800		90	90	90	90	90	90	90	90	90	90	90	90	87
1700		90	90	90	90	90	90	90	90	90	90	90	87	82
1600		90	90	90	90	90	90	90	90	90	90	88	82	77
1500		90	90	90	90	90	90	90	90	90	88	82	77	73
1400		90	90	90	90	90	90	90	90	89	82	77	72	68
1300		90	90	90	90	90	90	90	89	82	76	71	67	
1200		90	90	90	90	90	90	90	82	76	71	66		
1100		90	90	90	90	90	90	82	75	70	65			
1000		90	90	90	90	90	82	75	69	63				
900		90	90	90	90	82	74	67	62					
800		90	90	90	82	73	66	60						
700	600	90	90	82	72	64	58							

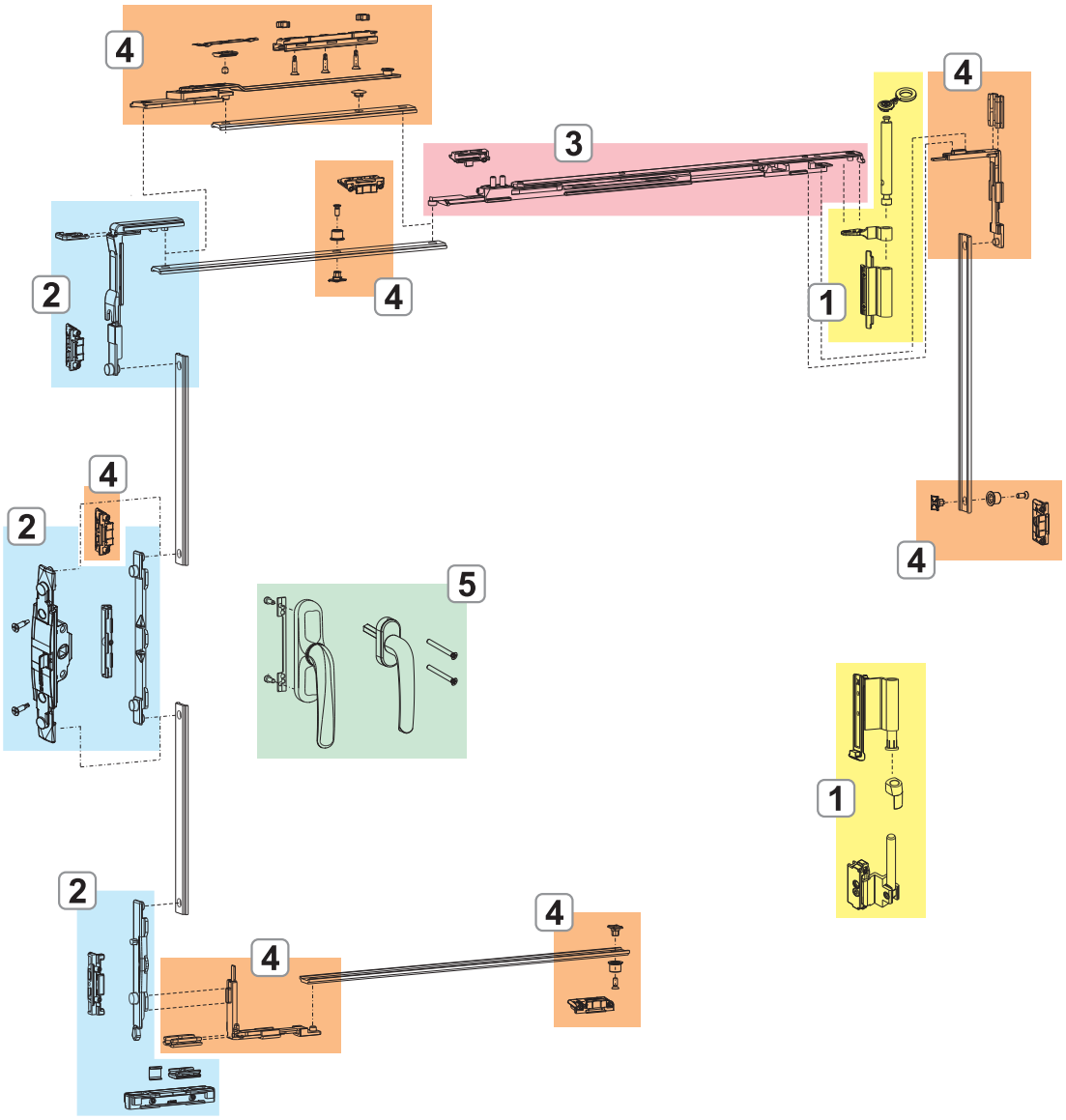


Micro-ventilation:
+3.6 / -1.8

FUTURA 3D 80

FUTURA 3D 80 micro

Futura 3D 80 traditional

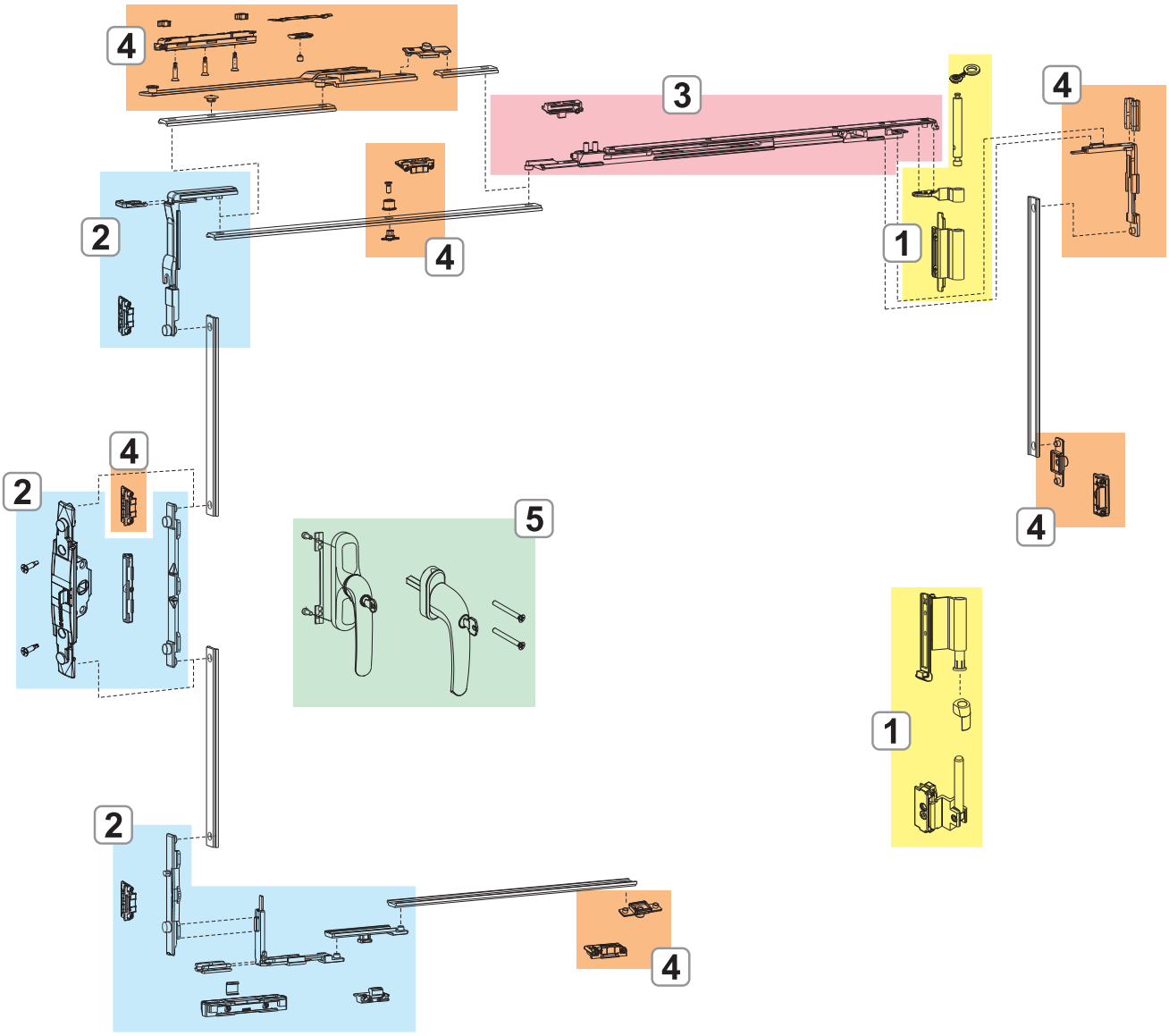


1. FLUSH FUTURA 3D 80 HINGES
2. FUTURA 3D 80 FLUSH FASTENING MECHANISMS
3. FLUSH FUTURA 3D 80 ARMS
4. FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

FUTURA 3D 80 lgc

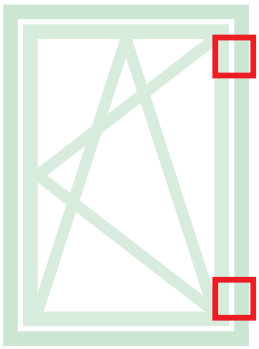
FUTURA 3D 80 micro lgc

Futura 3D 80 logica



1. FLUSH FUTURA 3D 80 HINGES
2. FUTURA 3D 80 FLUSH FASTENING MECHANISMS
3. FLUSH FUTURA 3D 80 ARMS
4. FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

FLUSH FUTURA 3D 80 HINGES



Online data sheet

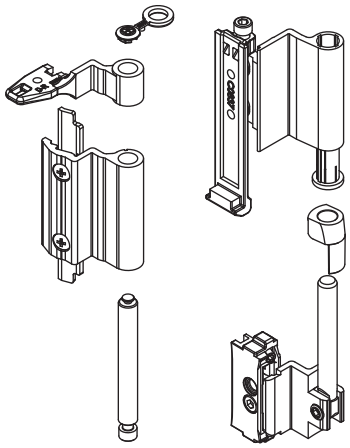
Functions

Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.

Materials

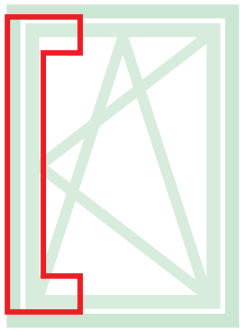
Body of hinges in extruded aluminium, stainless steel and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04718



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04718	HINGE T/T FUTURA 3D	C013-C014-C015-C016-C017	X		X	X	10

FUTURA 3D 80 FLUSH FASTENING MECHANISMS



Functions

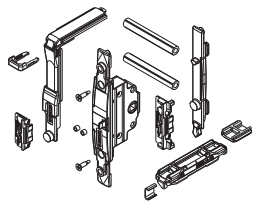
Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.

Materials

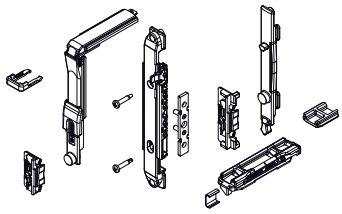
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

Online data sheet

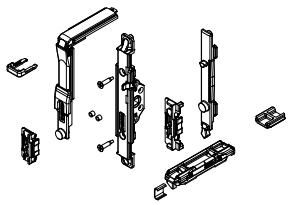
00947



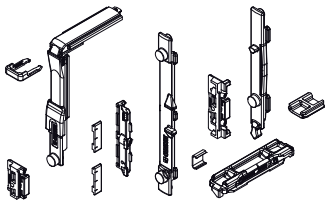
0395501



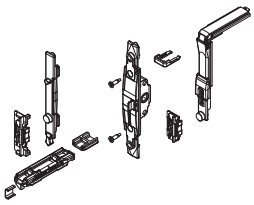
04371



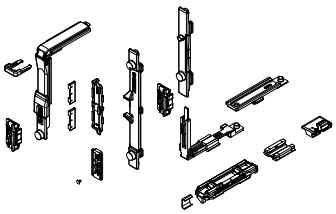
04704



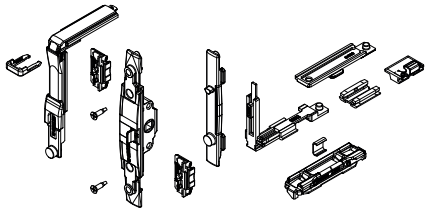
0470501



04706N

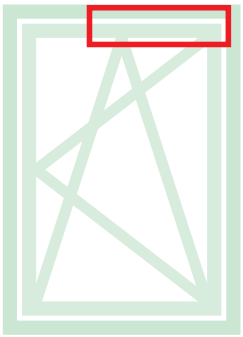


0470701



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00947	T/T M 180 MOVEMENT FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	Window handle	-	X				10
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
0470501	T/T M 180 FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle - SUPRA 7	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10
0470701	T/T M 180 LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	Logica	X				10

FLUSH FUTURA 3D 80 ARMS



Functions

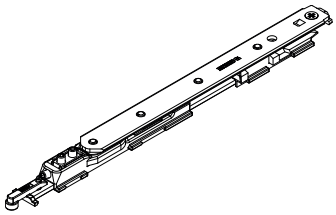
They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).

Materials

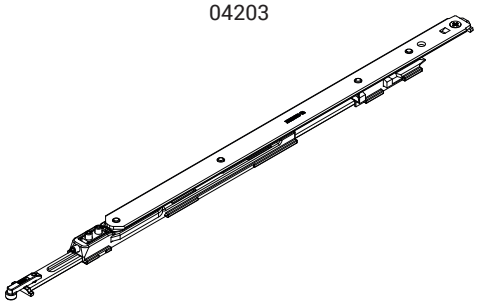
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance). Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

Online data sheet

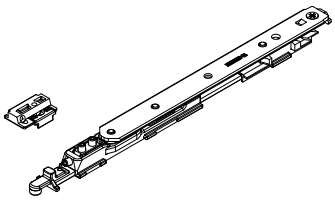
04202



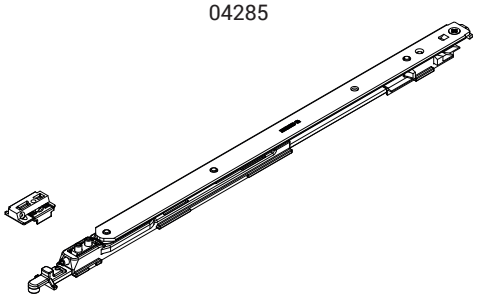
04203



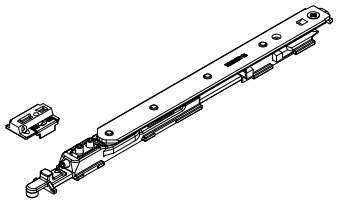
04284



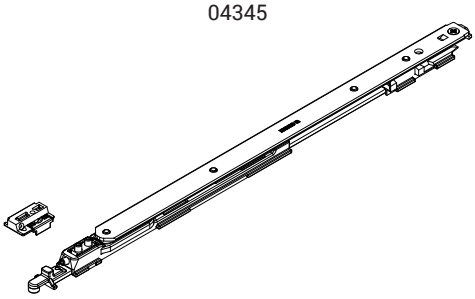
04285



04344

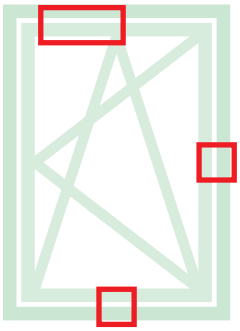


04345



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120					10
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175					10
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C015-C016-C017	W 410 ÷ 700	Micro	120					10
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C015-C016-C017	W 701 ÷ 1800	Micro	175					10
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C015-C016-C017	W 410 ÷ 700	Logica Micro	120					10
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175					10

FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

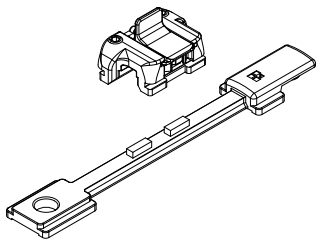


Functions

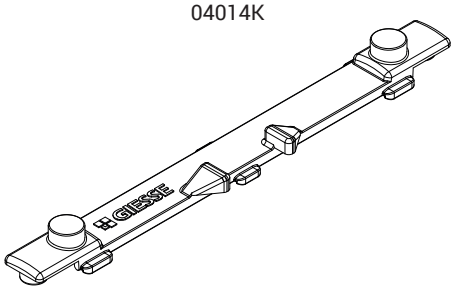
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism

Online data sheet

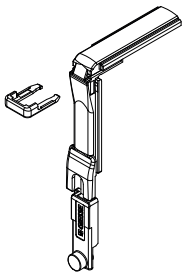
01299



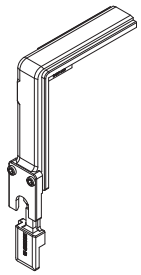
04014K



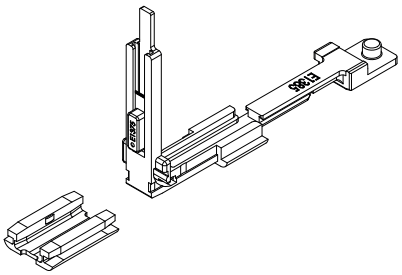
04019K



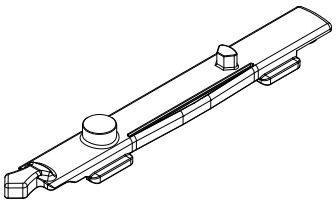
04020K



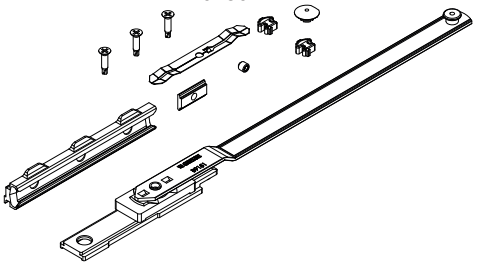
04024K



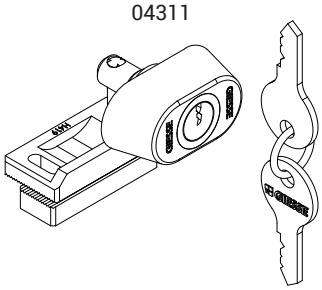
04026K



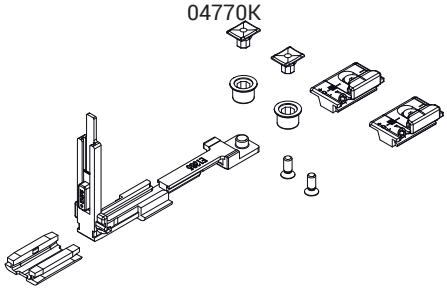
04301K



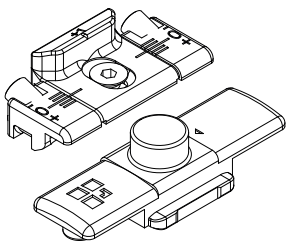
04311



04770K



04777K



FUTURA 3D 80 FLUSH

Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04019K	CORNER DRIVE GROOVE 15/20 FUTURA	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017	-	-	X				10
04020K	FUTURA CORNER DRIVE	C001-C002-C003-C004-C005-C006-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	-	-	X				50
04024K	CORNER DRIVE FOR FUTURA BURGLAR-PROOF FUNCTION	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

CONFIGURATION EXAMPLES

FUTURA 3D 80 FLUSH

Micro configuration with Cremone

MAIN SASH			
Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04704	04704	04704
Arm	04284	04285	04285
Additional arm	-	-	04301K
Cremone	01039 - 01094	01039 - 01094	01039 - 01094
SECONDARY SASH			
Hinges	04718	04718	04718
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Micro configuration with window handle

MAIN SASH			
Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	0470501	0470501	0470501
Arm	04284	04285	04285
Additional arm	-	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	04718	04718	04718
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with Cremone

MAIN SASH			
Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04706N	04706N	04706N
Arm	04202	04203	04203
Additional arm	-	-	04301K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193
SECONDARY SASH			
Hinges	04718	04718	04718
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

Logica configuration with window handle

MAIN SASH			
Sash width [mm]	390 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	0470701	0470701	0470701
Arm	04202	04203	04203
Additional arm	-	-	04301K
Window handle	02486	02486	02486
SECONDARY SASH			
Hinges	04718	04718	04718
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

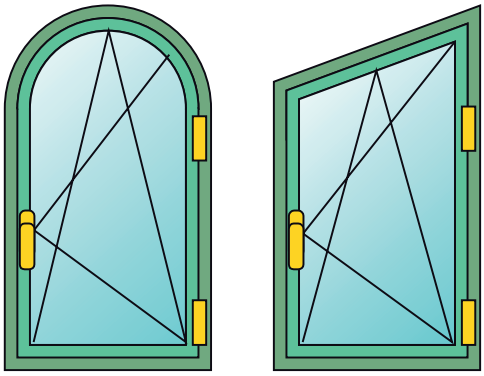
Logica micro configuration with Cremone

MAIN SASH			
Sash width [mm]	410 ÷ 700	701 ÷ 1000	1001 ÷ 1700
Hinges	04718	04718	04718
Mechanism	04706N	04706N	04706N
Arm	04344	04345	04345
Additional arm	-	-	04301K
Cremone	01194 - 01195	01194 - 01195	01194 - 01195
SECONDARY SASH			
Hinges	04718	04718	04718
Adapter	04728	04728	04728
Adjustable bolt	02168K	02168K	02168K
Single striker	01348	01348	01348

FUTURA 3D A & F

Functions
Complete system for the construction of tilt-and-turn windows that is specific for arched and sloping window types.

FUTURA ARCO
FUTURA FSQ



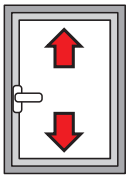
FUTURA 3D ARCO

FUTURA 3D FSQ

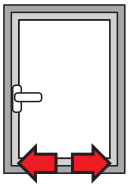
Technical Features
Making a FUTURA 3D Arched and Sloping tilt-and-turn window mechanism requires:
• Fastening mechanism kit including hinges, arm and hardware
• Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments
The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

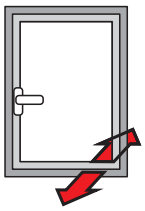
ADJUSTMENTS [mm]



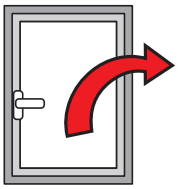
Height:
+1.5 / -0.5



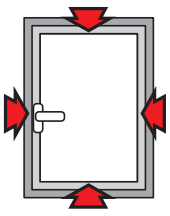
Side:
±1



Bottom hinge compression:
±0.3



Sash fall:
+2 / -0



Striker compression:
±1.8

Table of maximum glass thickness [mm]

	320	400	500	600	700	800	900	1000	1100	1200
2500	30	24	20	17	15	13	12	10	7	
2400	31	25	20	17	15	13	12	9	7	
2300	32	26	21	18	16	14	12	9		
2200	34	27	22	19	17	15	11	8		
2100	35	28	23	20	17	15	11			
2000	37	30	25	21	18	14	10			
1900	39	31	26	22	19	13				
1800	41	33	27	23	18	12				
1700	42	35	29	25	16					
1600	42	37	31	23	15					
1500	42	40	33	21						
1400	42	42	31							
1300	42	42	28							
1200	42	42	25							
1100	42	39								
1000	42									
900										
870										

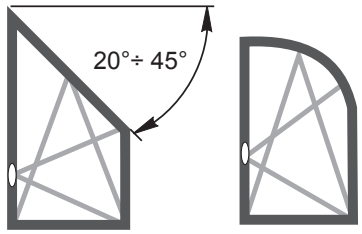


Table of maximum glass thickness [mm]

	320	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	24	19	16	13	12	10	9	8	8	7	6	6	6	5	
2400	25	20	16	14	12	11	10	9	8	7	7	6	6	5	
2300	26	20	17	14	13	11	10	9	8	8	7	6	6	6	
2200	27	21	18	15	13	12	10	9	9	8	7	7	6	6	
2100	28	22	19	16	14	12	11	10	9	8	8	7	7	6	
2000	30	24	20	17	15	13	12	10	10	9	8	8	7	7	
1900	31	25	21	18	15	14	12	11	10	9	9	8	7	7	
1800	33	26	22	19	16	14	13	12	11	10	9	8	8	7	
1700	35	28	23	20	17	15	14	12	11	10	10	9	8	8	
1600	37	30	25	21	18	16	15	13	12	11	10	10	9	8	
1500	40	32	26	22	20	17	16	14	13	12	11	10	10	9	
1400	42	34	28	24	21	19	17	15	14	13	12	11	10	9	
1300	42	36	30	26	23	20	18	16	15	14	13	11	10		
1200	42	40	33	28	25	22	20	18	16	15	13	11			
1100	42	42	36	31	27	24	21	19	17	15	12				
1000	42	42	40	34	30	26	24	20	17	14					
900	42	42	42	38	33	29	24	19	16						
800	42	42	42	42	36	28	23	19							
700	42	42	42	42	34	27	22								
600	42	42	42	41	32	25									
550															

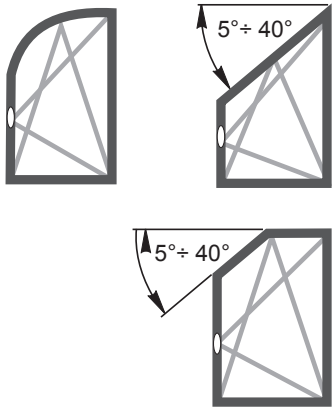
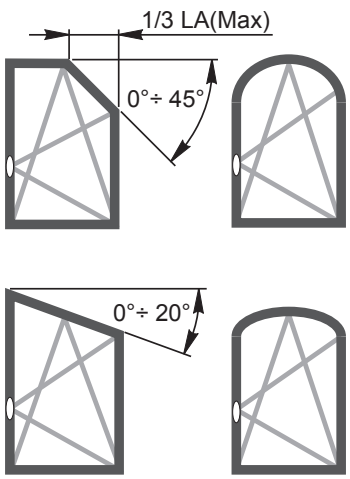


Table of maximum glass thickness [mm]

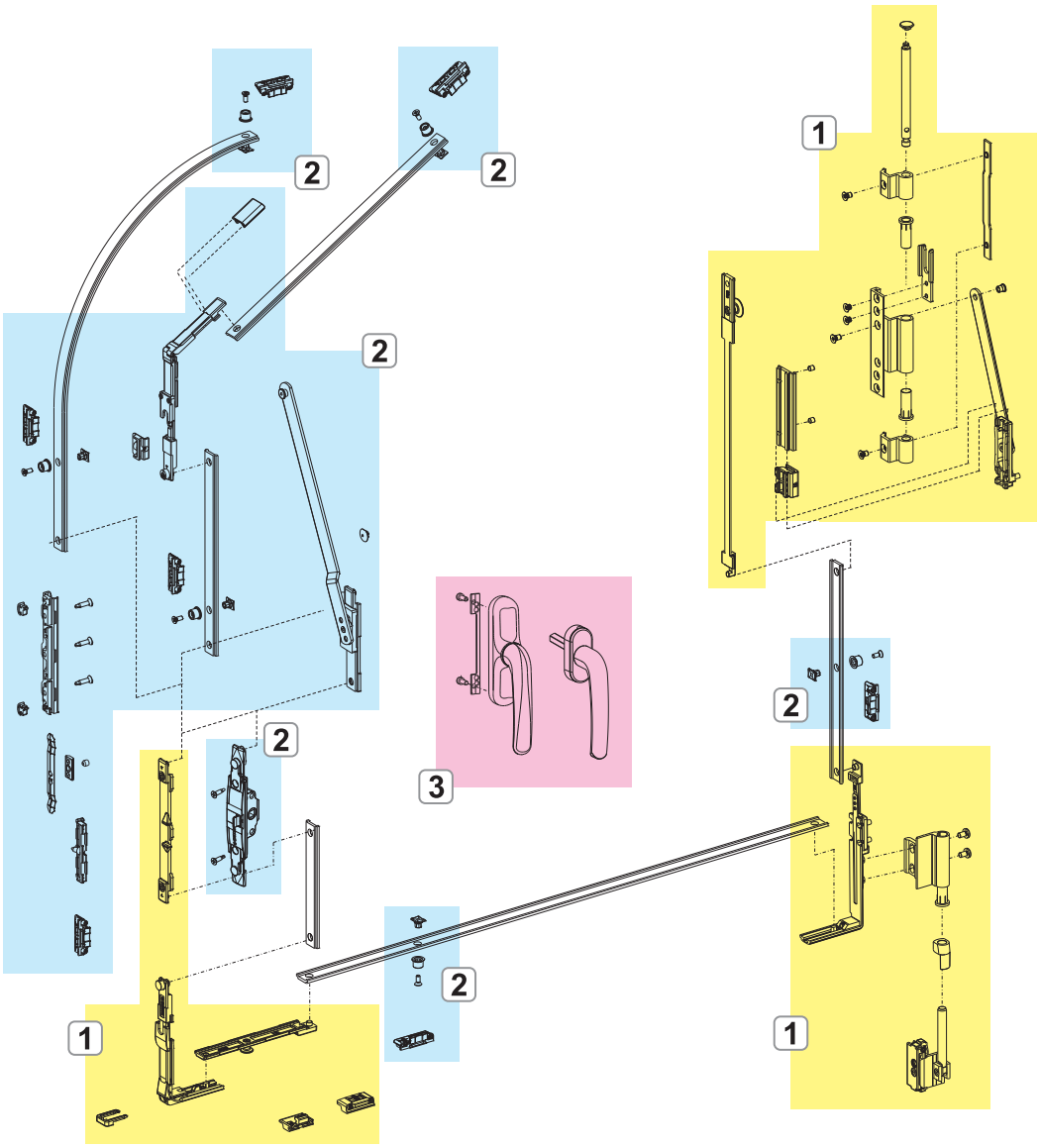
	320	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	30	24	20	17	15	13	12	11	10	9	8	6	5	5	
2400	32	25	21	18	16	14	12	11	10	9	8	6	5		
2300	33	26	22	19	16	14	13	12	11	9	7	6	5		
2200	35	28	23	20	17	15	14	12	11	9	7	6	5		
2100	36	29	24	20	18	16	14	13	10	8	7	6	5		
2000	38	30	25	22	19	17	15	13	10	8	7	6	5		
1900	40	32	27	23	20	18	16	12	10	8	6	5			
1800	42	34	28	24	21	19	15	12	9	8	6	5			
1700	42	36	30	25	22	19	15	11	9	7	6	5			
1600	42	38	32	27	24	18	14	11	8	7	5				
1500	42	41	34	29	24	18	13	10	8	6	5				
1400	42	42	36	31	23	17	12	9	7	6	4				
1300	42	42	39	30	21	16	12	9	6	5					
1200	42	42	42	29	20	14	11	8	6						
1100	42	42	40	27	18	13	9	6							
1000	42	42	36	24	16	11									
900	42	42	33	21											
800	42	42													
710															



FUTURA 3D ARCO

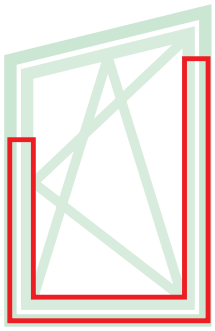
FUTURA 3D FSQ

Futura 3D A & F



1. FUTURA 3D A & F BASIC MECHANISM
2. FUTURA 3D A & F ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
3. CREMONES AND WINDOW HANDLES

FUTURA 3D A & F BASIC MECHANISM



Online data sheet

Functions

The hinges are supplied completely pre-assembled and ready to be installed on the profile, the hardware consists of ready-assembled accessories that make installation easy and instant.

Materials

Arm

Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance) and stainless steel rod. Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

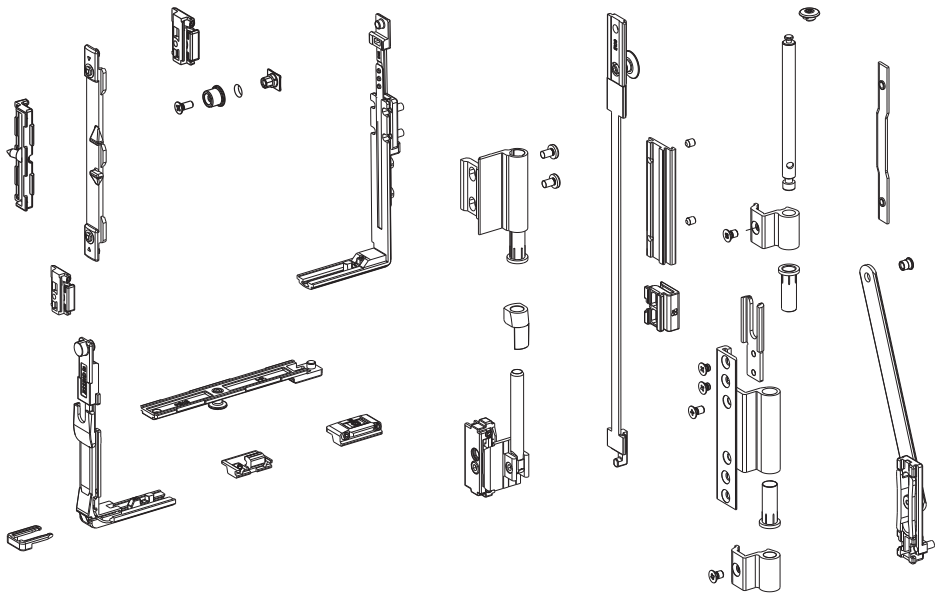
Hinges

Extruded aluminium and brass hinge body Zamak supports with GS Silver Plus finish (up to 500 h corrosion resistance). Pins, screws and grub screws in stainless steel.

Mechanism

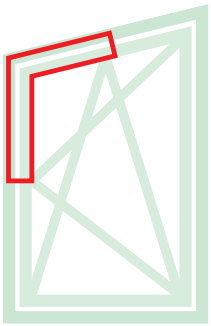
Drive, drive rod, bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance). Screws and grub screws in stainless steel. Polyamide raiser.

04671K



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04671K	T/T FUTURA ARCHED & SLOPING WINDOW MECHANISM	C001-C002			X	X	5

FUTURA 3D A & F ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

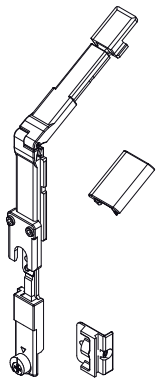


Functions

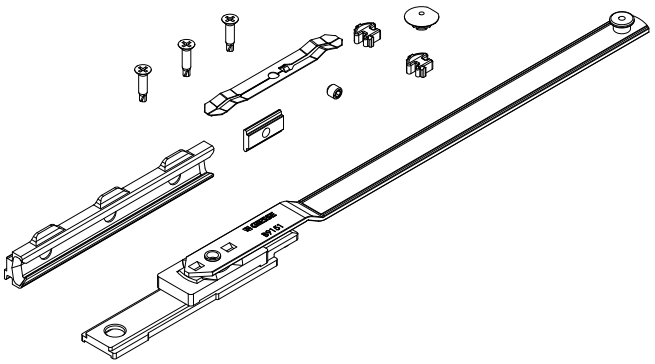
The additional arm is mandatory for L>1000 mm.
The variable corner drive is fixed without any need for machining the profile, but by means of a polyamide clip and two contrast grubscrews. Allows making sloping windows with an angle between the cremone upright and the top cross-beam that goes from 95° to 135°.

Online data sheet

04023K



04301K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04023K	VARIABLE CORNER DRIVE	C001-C002	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5

CONFIGURATION EXAMPLES

FUTURA 3D A & F

Basic arched configuration with Cremone

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Additional arm	-	04301K
Cremone	01039 - 01090K	01039 - 01090K

Basic arched configuration with window handle

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	01061	01061
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic sloping window configuration with Cremone

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Variable corner drive	04023K	04023K
Additional arm	-	04301K
Cremone	01039 - 01090K	01039 - 01090K

Basic sloping window configuration with window handle

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	01061	01061
Variable corner drive	04023K	04023K
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

Basic arched configuration with NP Supra

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	0395301	0395301
Additional arm	-	04301K
NP Supra	03962 - 03963	03962 - 03963

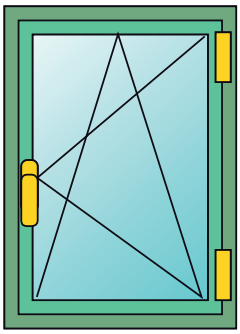
Basic sloping window configuration with NP Supra

MAIN SASH		
Sash width	320 ÷ 1000	1001 ÷ 1700
Mechanism	04671K	04671K
Mechanism	0395301	0395301
Variable corner drive	04023K	04023K
Additional arm	-	04301K
NP Supra	03962 - 03963	03962 - 03963

FUTURA 3D R

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 110 kg. Available in the standard and logica versions.



Technical Features

Making a FUTURA 3D R tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in two versions (standard and logic).
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

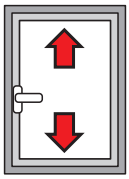
Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

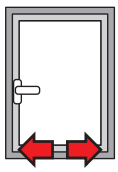
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

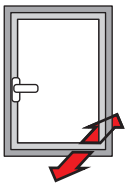
ADJUSTMENTS [mm]



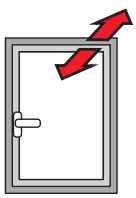
Height:
+1.5 / -0.5



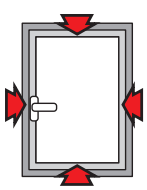
Side:
±1,2



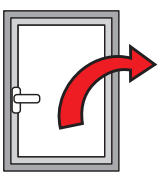
Bottom hinge compression:
±0.3



Top hinge compression:
±1.5



Striker compression:
±1,2



Sash fall:
+4 / -2

Logica mechanism operation

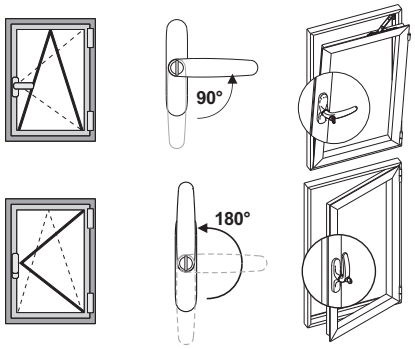


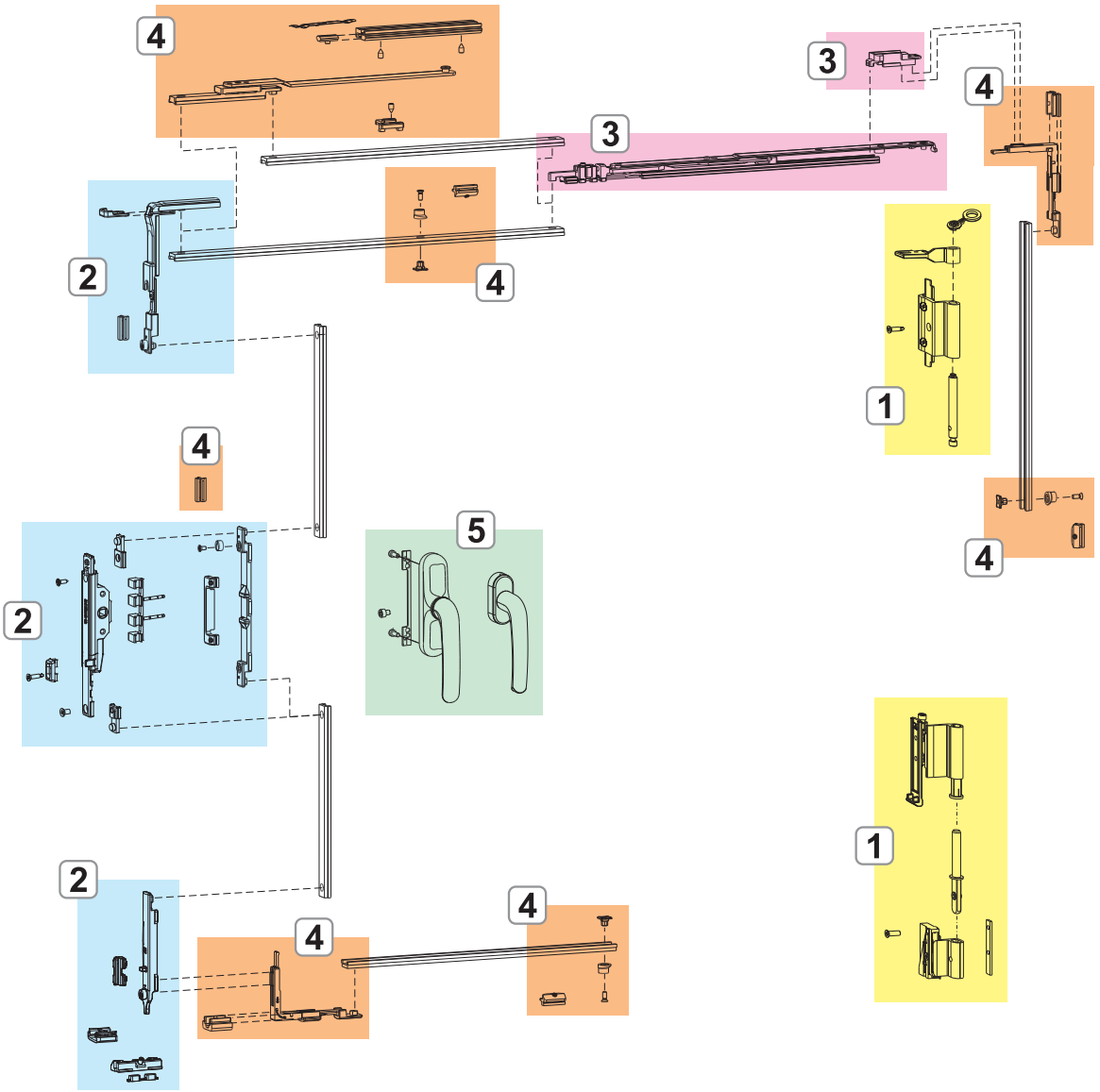
Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	35	29	25	22	19	17	16	14	13	12	12	11	10	
2400	36	30	26	22	20	18	16	15	14	13	12	11	11	
2300	38	31	27	23	21	19	17	16	14	13	13	12	11	
2200	39	33	28	25	22	20	18	16	15	14	13	12	12	
2100	41	34	29	26	23	21	19	17	16	15	14	13	12	
2000	43	36	31	27	24	22	20	18	17	15	14	13	13	
1900	45	38	32	28	25	23	21	19	17	16	15	14	13	
1800	48	40	34	30	27	24	22	20	18	17	16	15	14	
1700	50	42	36	32	28	25	23	21	20	18	17	15	14	
1600	50	45	39	34	30	27	25	22	21	19	17	15	14	
1500	50	48	41	36	32	29	26	24	22	20	17	15	14	
1400	50	50	44	39	34	31	28	26	23	20	17	15	14	
1300	50	50	47	42	37	33	30	27	23	20	17	15		
1200	50	50	50	45	40	36	32	27	23	20	17			
1100	50	50	50	49	44	39	32	27	23	20				
1000	50	50	50	50	48	39	32	27	23					
900	50	50	50	50	48	39	32	27						
800	50	50	50	50	48	39	32							
600 700	50	50	50	50	48	39								

Table of maximum load capacity [kg]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
2500	110	110	110	110	110	110	110	110	110	110	110	110	110	
2400	110	110	110	110	110	110	110	110	110	110	110	110	110	
2300	110	110	110	110	110	110	110	110	110	110	110	110	110	
2200	110	110	110	110	110	110	110	110	110	110	110	110	110	
2100	110	110	110	110	110	110	110	110	110	110	110	110	110	
2000	110	110	110	110	110	110	110	110	110	110	110	110	110	
1900	110	110	110	110	110	110	110	110	110	110	110	110	110	
1800	110	110	110	110	110	110	110	110	110	110	110	110	110	106
1700	110	110	110	110	110	110	110	110	110	110	110	110	106	100
1600	110	110	110	110	110	110	110	110	110	110	110	107	100	94
1500	110	110	110	110	110	110	110	110	110	110	110	100	94	88
1400	110	110	110	110	110	110	110	110	110	108	100	83	88	82
1300	110	110	110	110	110	110	110	110	108	100	93	87	81	
1200	110	110	110	110	110	110	110	108	100	92	86	80		
1100	110	110	110	110	110	110	100	92	85	79	73			
1000	110	110	110	110	110	100	91	83	77	72				
900	110	110	110	110	100	90	82	75	69					
800	110	110	110	100	89	80	73	67						
700	110	110	100	88	78	70	64							
600														

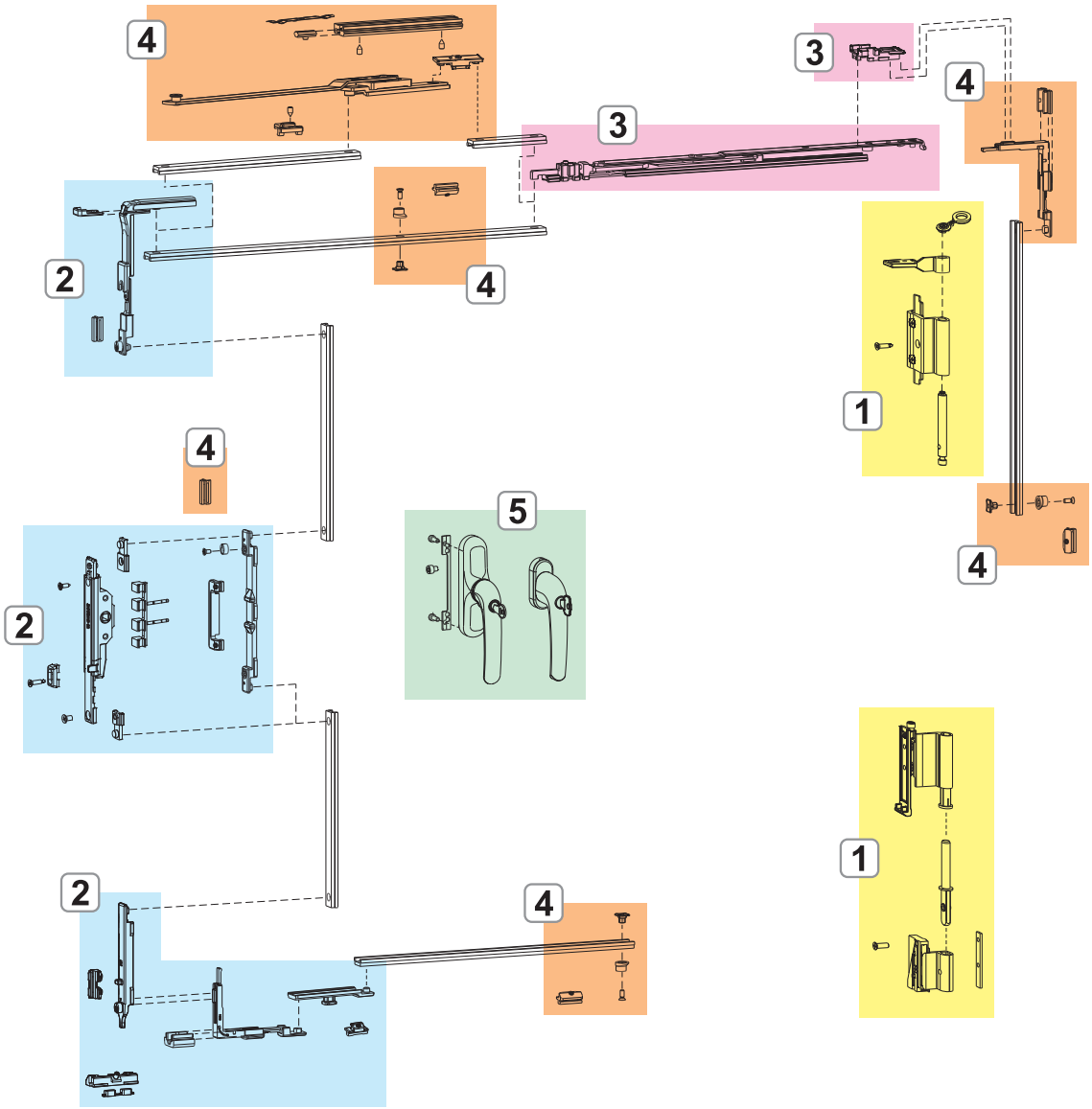
Futura 3D R traditional



1. FUTURA 3D R HINGES
2. FUTURA 3D R FASTENING MECHANISMS
3. FUTURA 3D R ARMS
4. FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

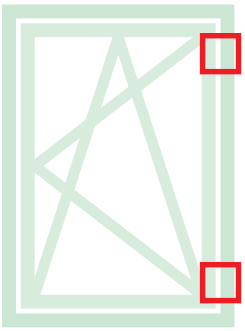
FUTURA 3D R lgc

Futura 3D R logica



1. FUTURA 3D R HINGES
2. FUTURA 3D R FASTENING MECHANISMS
3. FUTURA 3D R ARMS
4. FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

FUTURA 3D R HINGES



Online data sheet

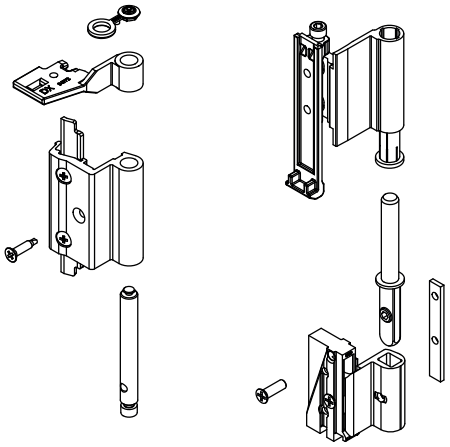
Functions

Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.

Materials

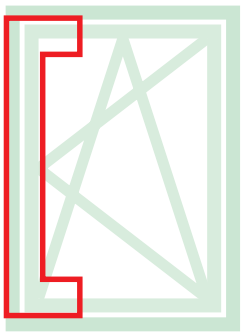
Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04721



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04721	HINGE T/T FUTURA 3D R	C007	X		X	X	10

FUTURA 3D R FASTENING MECHANISMS



Online data sheet

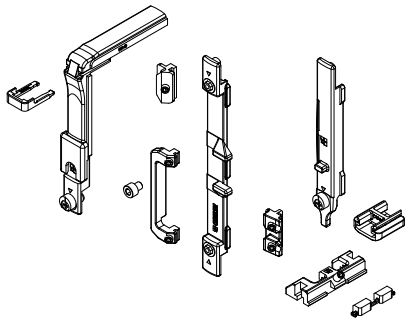
Functions

Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.

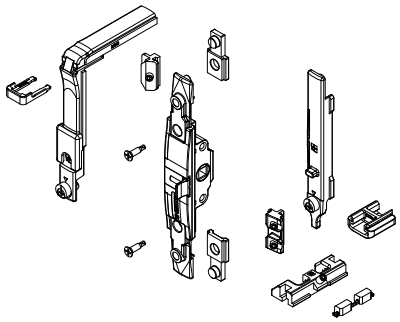
Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

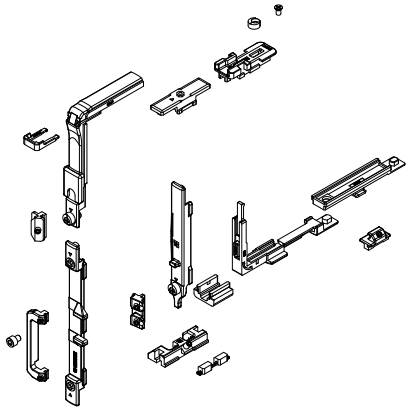
04766N



04767V

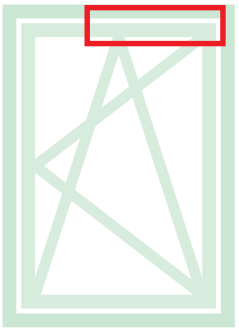


04768N



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04766N	T/T FASTENING MECHANISM	C007	Cremone	-	X				10
04767V	T/T M 180 FASTENING MECHANISM	C007	Window handle	-	X				10
04768N	T/T LOGICA FASTENING MECHANISM	C007	Cremone	Logica	X				10

FUTURA 3D R ARMS



Functions

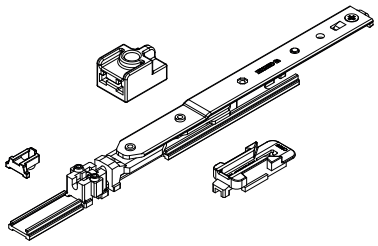
They enable tilt-and-turn opening combined with the mechanisms.

Materials

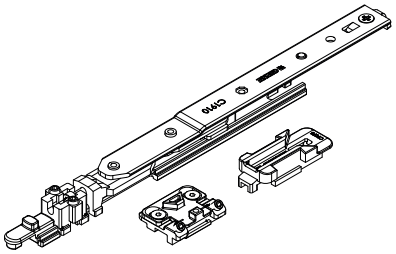
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

Online data sheet

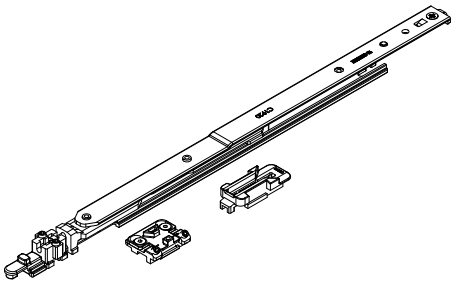
04380



0422901

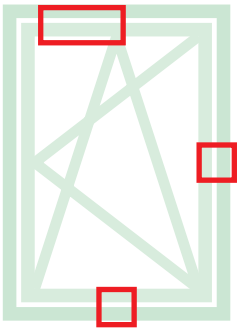


0423001



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04380	ARM TYPE 0 T/T FUTURA R	C007	W 360 ÷ 425	X				10
0422901	ARM TYPE 1 T/T FUTURA R	C007	L 426 ÷ 580	X				10
0423001	ARM TYPE 2 T/T FUTURA R	C007	L 581 ÷ 1700	X				10

FUTURA 3D R ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

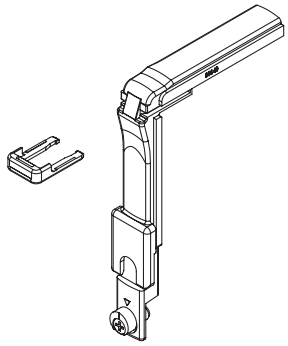


Functions

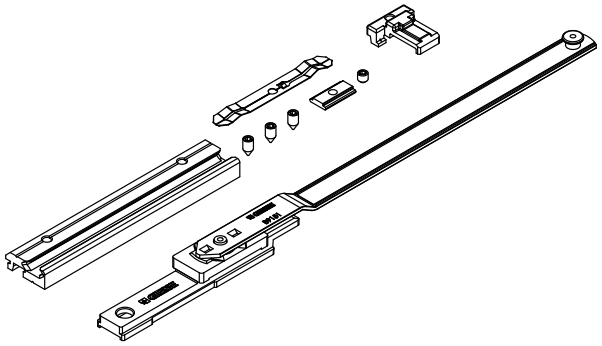
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism.

Online data sheet

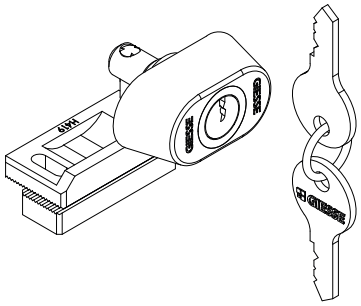
04017K



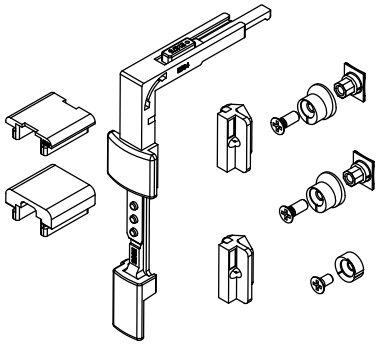
04308K



04311

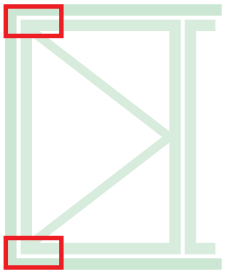


04648K



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04017K	FUTURA CORNER DRIVE	C007		X				10
04308K	ADDITIONAL ARM FOR T/T	C007	W > 1000	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	X				10
04648K	VERT/HOR.ADD.FAST. GS999	C007	H > 1200 L > 1000	X				10

FUTURA 3D R SECONDARY SASH HINGE KIT



Online data sheet

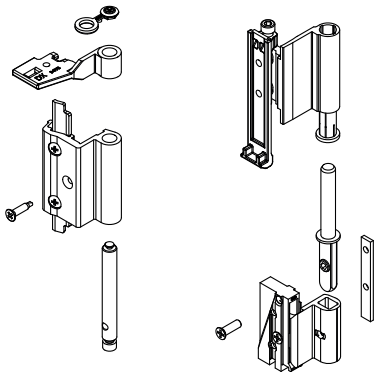
Functions

FUTURA 3D R features specific hinges for the secondary sash, with the same styling line and the same adjustments.

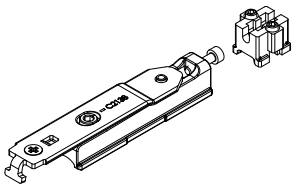
Materials

Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

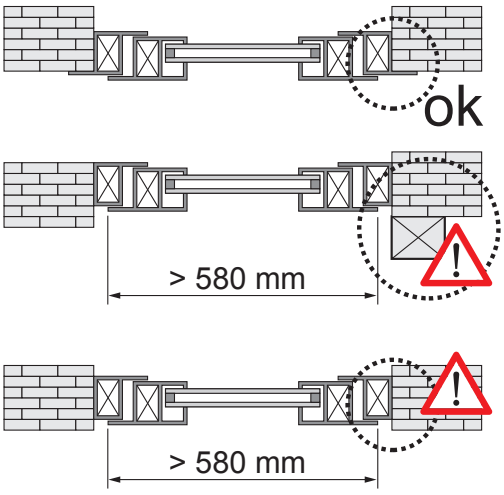
04721



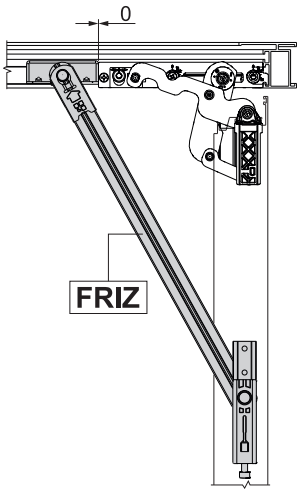
04423



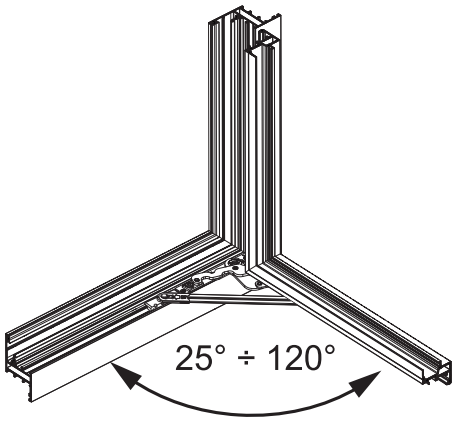
Mandatory to use the FRIZ arm



FRIZ arm positioning



Opening angle with FRIZ arm



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04721	HINGE T/T FUTURA 3D R	C007	X		X	X	10
04423	ERRE - SEC. SASH ADAPTER	C007	X				10

CONFIGURATION EXAMPLES

FUTURA 3D R

Basic configuration with Cremone

MAIN SASH			
Sash width	426 ÷ 580	581 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04766N	04766N	04766N
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Cremone	01039 - 01090K	01039 - 01090K	01039 - 01090K
SECONDARY SASH			
Hinges	04721	04721	04721
Adapter	04423	04423	04423
Two-way bolt	04231	04231	04231

Basic configuration with window handle

MAIN SASH			
Sash width	426 ÷ 580	581 ÷ 1000	1001 ÷ 1800
Hinges	04721	04721	04721
Mechanism	04767V	04767V	04767V
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH			
Hinges	04721	04721	04721
Adapter	04423	04423	04423
Two-way bolt	04231	04231	04231

Logica configuration with Cremone

MAIN SASH			
Sash width	426 ÷ 580	581 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04768N	04768N	04768N
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Cremone	01192 - 01193	01192 - 01193	01192 - 01193
SECONDARY SASH			
Hinges	04721	04721	04721
Adapter	04423	04423	04423
Two-way bolt	04231	04231	04231

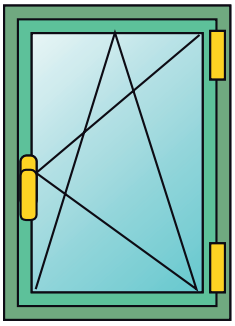
Logica configuration with window handle

MAIN SASH			
Sash width	426 ÷ 580	581 ÷ 1000	1001 ÷ 1700
Hinges	04721	04721	04721
Mechanism	04768N	04768N	04768N
Mechanism	01062	01062	01062
Arm	0422901	0423001	0423001
Additional arm	-	-	04308K
Window handle	02486	02486	02486
SECONDARY SASH			
Hinges	04721	04721	04721
Adapter	04423	04423	04423
Two-way bolt	04231	04231	04231

FUTURA 3D 80 ALUMINIUM WOOD

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 90 kg. Available in the standard, logic and microventilation versions.



FUTURA 3D 80 | FUTURA 3D 80 micro | FUTURA 3D 80 lgc | FUTURA 3D 80 micro lgc

Technical Features

Making a FUTURA 3D 80 Flush tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The FUTURA 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

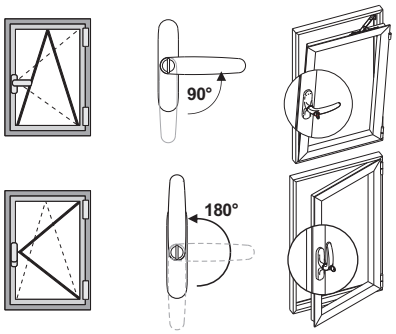
Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement. Available both as standard and with an additional device.

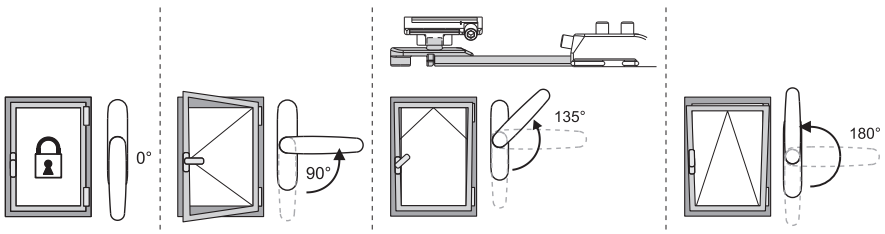
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

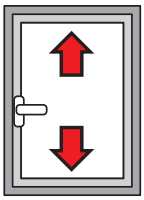
Logica mechanism operation



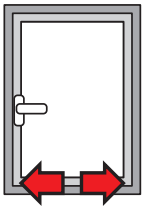
Standard microventilation



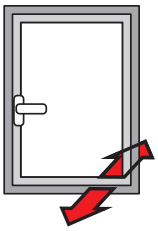
ADJUSTMENTS [mm]



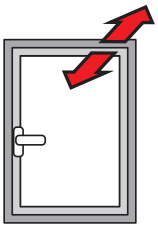
Height:
+1.5 / -0.5



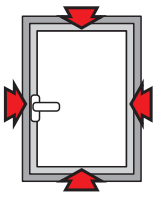
Side:
±1



Bottom hinge compression:
±0.3



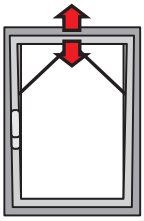
Top hinge compression:
±1.5



Striker compression:
±1.8



Sash fall:
+3.5 / -1.5



Micro-ventilation:
+3.6 / -1.8

Table of maximum glass thickness [mm]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	23	20	17	15	13	12	11	10	9	8	8	
2400	26	22	19	16	15	13	12	11	10	9	8	
2300	27	23	19	17	15	14	12	11	10	10	8	
2200	29	24	20	18	16	14	13	12	11	10	9	
2100	30	25	21	19	17	15	14	12	11	11	9	
2000	31	26	22	20	17	16	14	13	12	11	10	
1900	33	28	24	21	18	17	15	14	13	12	10	
1800	35	29	25	22	19	17	16	15	13	12	11	
1700	37	31	26	23	21	18	17	15	14	13	11	
1600	39	33	28	25	22	20	18	16	15	14	12	
1500	42	35	30	26	23	21	19	17	16	14	12	
1400	45	37	32	28	25	22	20	19	16	14	12	
1300	48	40	34	30	27	24	22	19	16	14	12	
1200	50	44	37	33	29	26	23	19	16	14		
1100	50	48	41	36	32	28	23	19	16			
1000	50	50	45	39	34	28	23	19				
900	50	50	50	43	34	28	23					
800	50	50	50	43	34	28						
700	50	50	50	43	34							
600												

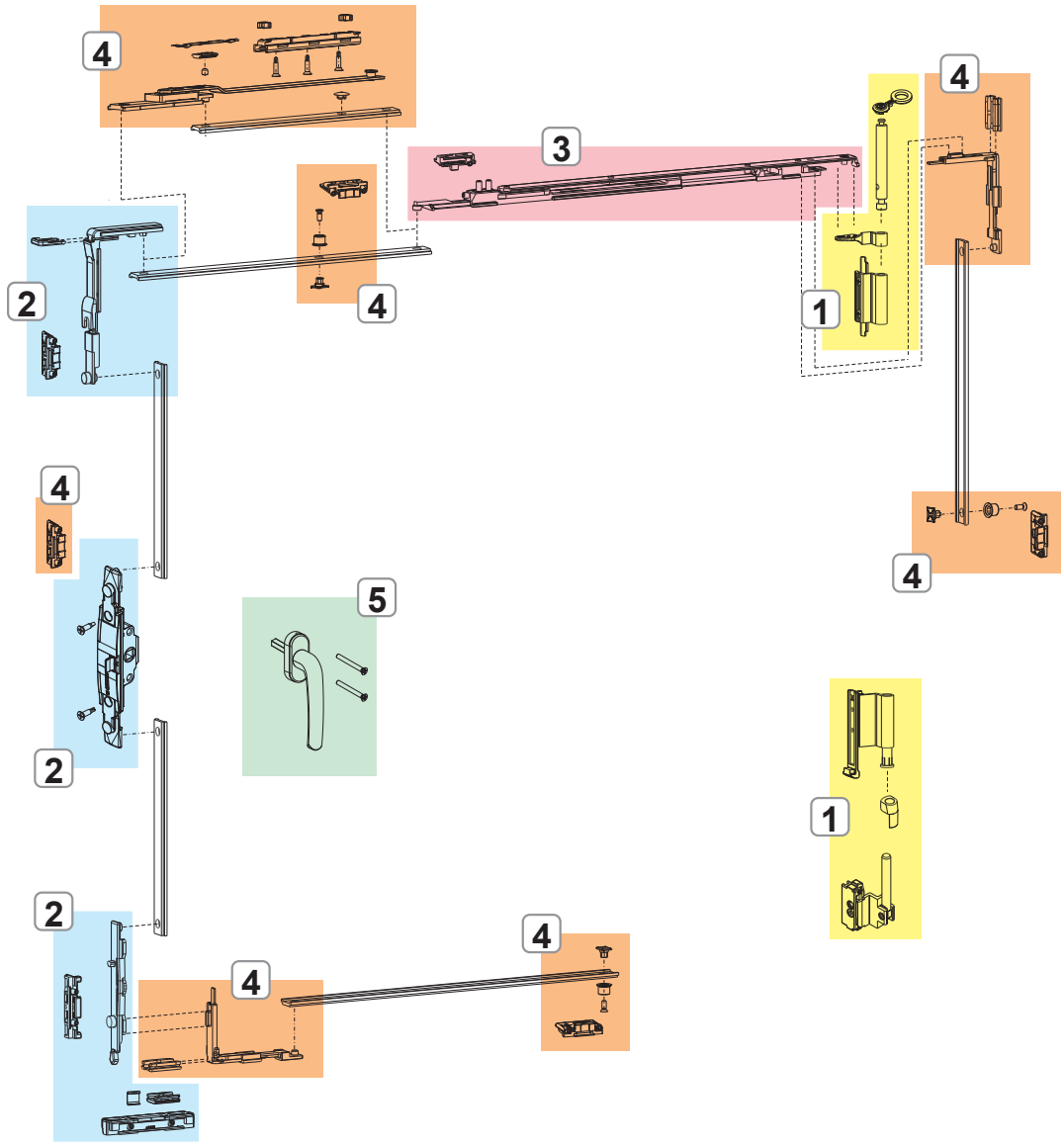
Table of maximum load capacity [kg]

	390	500	600	700	800	900	1000	1100	1200	1300	1400	1500
2500	75	75	75	75	75	75	75	75	75	75	75	
2400	80	80	80	80	80	80	80	80	80	80	75	
2300	80	80	80	80	80	80	80	80	80	80	75	
2200	80	80	80	80	80	80	80	80	80	80	75	
2100	80	80	80	80	80	80	80	80	80	80	75	
2000	80	80	80	80	80	80	80	80	80	80	75	
1900	80	80	80	80	80	80	80	80	80	80	75	
1800	80	80	80	80	80	80	80	80	80	80	75	
1700	80	80	80	80	80	80	80	80	80	80	75	
1600	80	80	80	80	80	80	80	80	80	80	75	
1500	80	80	80	80	80	80	80	80	80	75	70	
1400	80	80	80	80	80	80	80	80	76	70	66	
1300	80	80	80	80	80	80	80	76	70	65	61	
1200	80	80	80	80	80	80	77	70	65	60		
1100	80	80	80	80	80	77	70	65	60			
1000	80	80	80	80	78	70	64	59				
900	80	80	80	79	70	63	58					
800	80	80	80	70	63	56						
700	80	80	70	62	55							
600												

FUTURA 3D 80

FUTURA 3D 80 micro

Futura 3D 80 Aluminium Wood, traditional

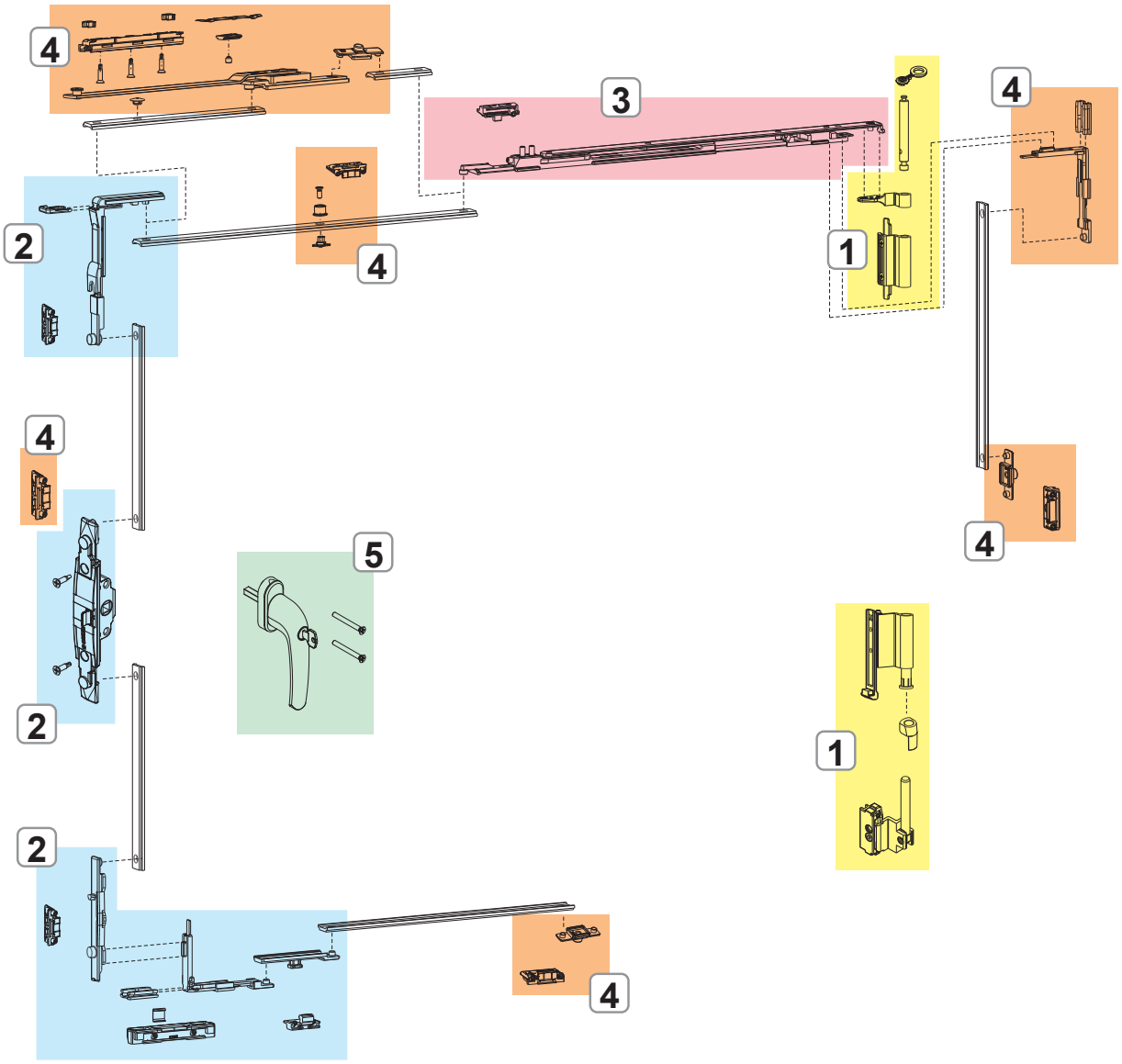


1. FUTURA 3D 80 ALUMINIUM WOOD HINGES
2. FUTURA 3D 80 ALUMINIUM WOOD FASTENING MECHANISMS
3. FUTURA 3D 80 ALUMINIUM WOOD ARMS
4. FUTURA 3D 80 ALUMINIUM WOOD ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. WINDOW HANDLES

FUTURA 3D 80 lgc

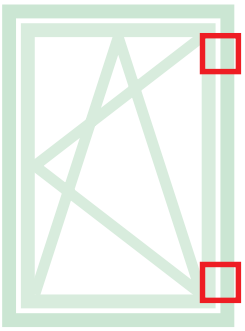
FUTURA 3D 80 micro lgc

Futura 3D 80 Aluminium Wood, logica



1. FUTURA 3D 80 ALUMINIUM WOOD HINGES
2. FUTURA 3D 80 ALUMINIUM WOOD FASTENING MECHANISMS
3. FUTURA 3D 80 ALUMINIUM WOOD ARMS
4. FUTURA 3D 80 ALUMINIUM WOOD ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. WINDOW HANDLES

FUTURA 3D 80 FLUSH ALUMINIUM-WOOD HINGES



Functions

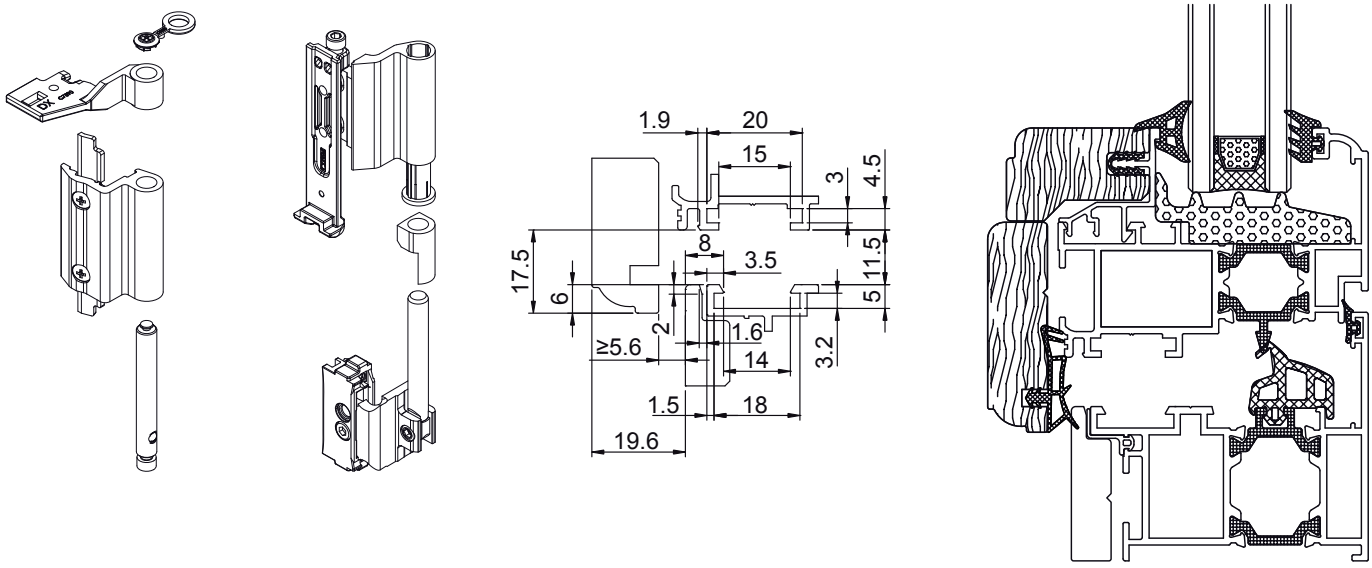
Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.

Materials

Body of hinges in extruded aluminium, stainless steel and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

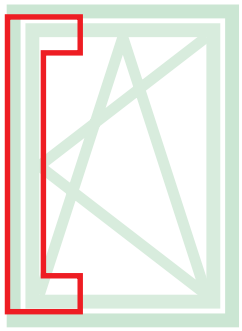
Online data sheet

04709



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04709	FUTURA ALUMINIUM WOOD T/T HINGE	See quoted section			X	X	10

FUTURA 3D 80 ALUMINIUM-WOOD FASTENING MECHANISMS



Functions

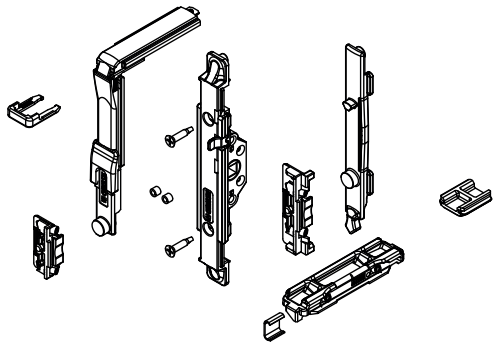
Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.

Materials

Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

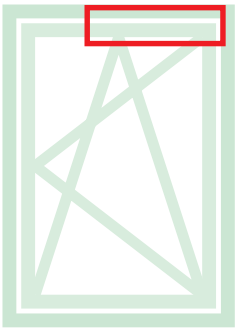
Online data sheet

04371



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10

FUTURA 3D 80 ALUMINIUM-WOOD ARMS



Functions

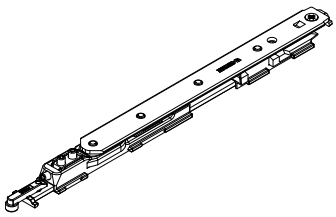
They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).

Materials

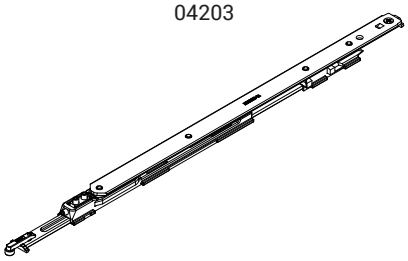
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance). Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

Online data sheet

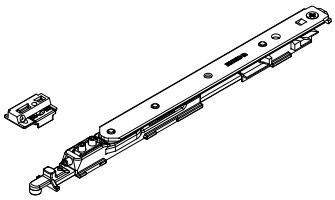
04202



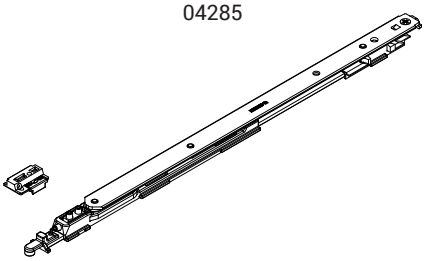
04203



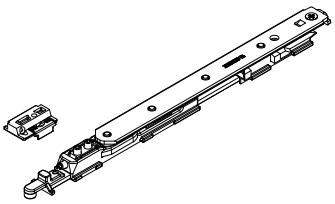
04284



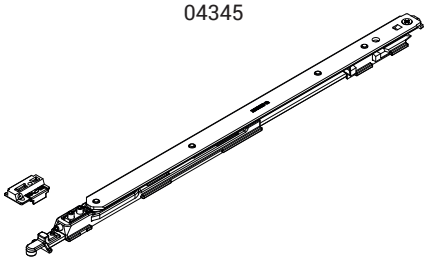
04285



04344

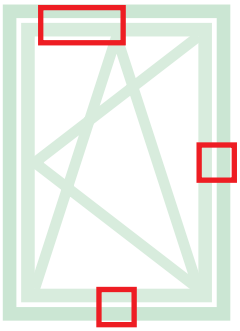


04345



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	A (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04202	ARM TYPE 1 T/T FUTURA LOGICA 130	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	W 390 ÷ 700	Logica	120					10
04203	ARM TYPE 2 T/T FUTURA LOGICA 130	C001-C002-C003-C005-C006-C013-C014-C015-C016-C017	W 701 ÷ 1800	Logica	175					10
04284	ARM T1 130 WITH MICROVENTI-LATION	C001-C002-C003-C015-C016-C017	W 410 ÷ 700	Micro	120					10
04285	ARM T2 130 WITH MICROVENTI-LATION	C001-C002-C003-C015-C016-C017	W 701 ÷ 1800	Micro	175					10
04344	ARM T1 130 MICROVENTILATION LOGIC	C001-C002-C003-C015-C016-C017	W 410 ÷ 700	Logica Micro	120					10
04345	ARM T2 130 MICROVENTILATION LOGIC	C001-C002-C003-C015-C016-C017	W 701 ÷ 1800	Logica Micro	175					10

FLUSH FUTURA 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

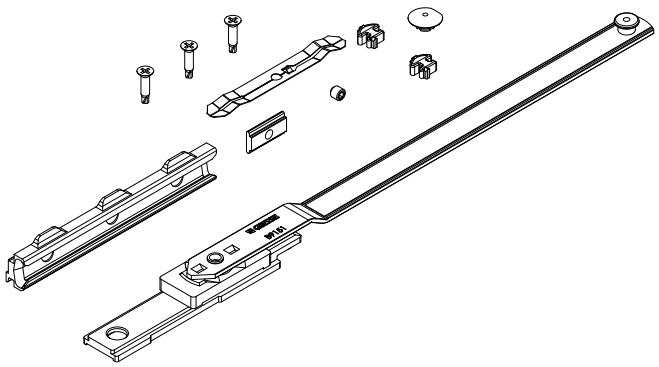


Functions

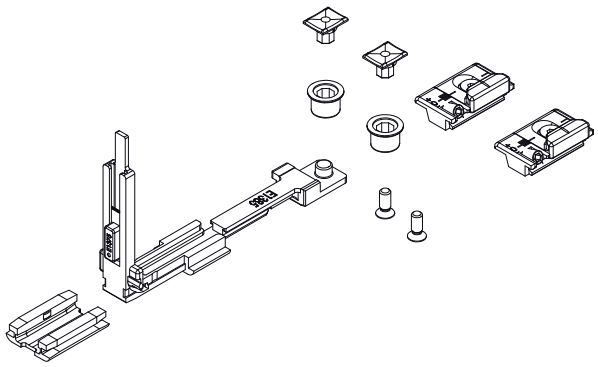
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm) are to be used in combination with this mechanism

Online data sheet

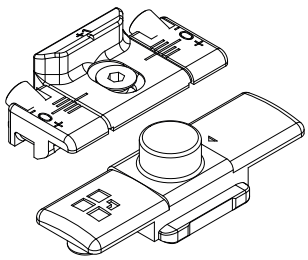
04301K



04770K

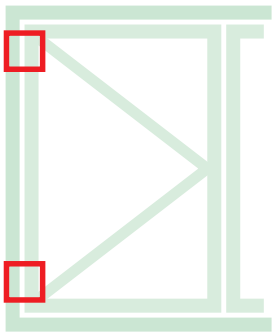


04777K



Item code	Description	Interface type	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04770K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	-	X				10
04777K	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 1200 L > 1000	Logica	X				50

FUTURA 3D 80 ALUMINIUM-WOOD SECONDARY SASH



Online data sheet

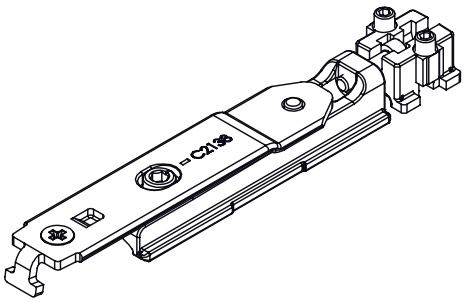
Functions

FUTURA 3D 80 ALUMINIUM-WOOD features specific hinges for the secondary sash, with the same styling line and the same adjustments.

Materials

Body of hinges in extruded aluminium and brass.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

04728

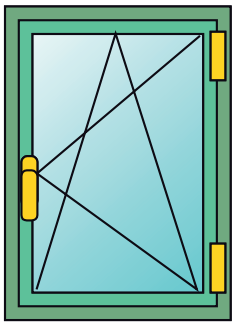


Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04728	FUTURA 3D 130 SECONDARY SASH ADAPTER	C001-C002-C003-C004-C005-C006	X				10

CLASSIC 3D 80

Functions

Complete system for the construction of tilt-and-turn windows with load capacities of up to 80 kg.
Available in the standard, logic and microventilation versions.



Technical Features

Making a CLASSIC 3D 80 tilt-and-turn window mechanism requires:
- Hinge kit
- Set of fastening mechanisms for Cremones and window handles
- Arms, available in three versions (standard, micro-ventilation and logic)
- Cremone or window handle (available in different models to choose from in the specific catalogue section)

Adjustments

The CLASSIC 3D tilt-and-turn window enables micrometric adjustment in every direction, ideal after installing the casement.

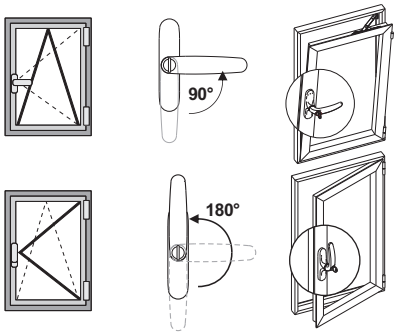
Micro-ventilation

Microventilation enables having simultaneously both the tilt-and-turn position and micro-ventilation (precision opening of the sash) on the casement.

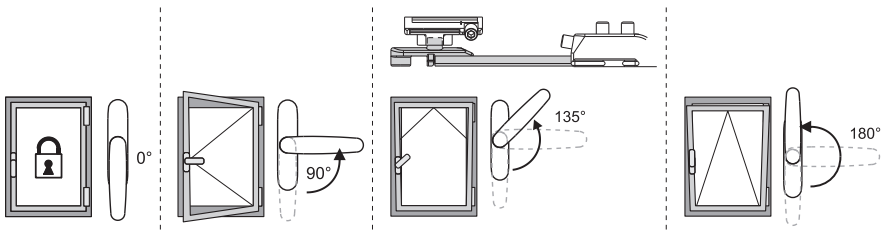
Logica

The logical operation consists in first tilt-and-turn opening (with the cremone at 90°) and secondly side-hung opening (with the cremone at 180°). Its use is particularly recommended in public buildings (schools, hospitals, etc.) in combination with a cremone with a key in order to have only tilt-and-turn window opening for safety reasons and to allow full opening only for staff with the key.

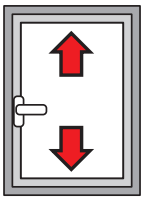
Logica mechanism operation



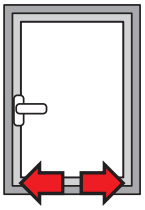
Standard microventilation



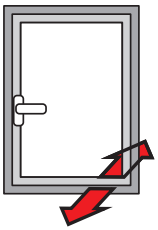
ADJUSTMENTS [mm]



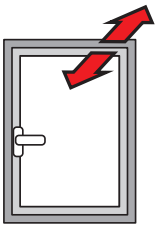
Height:
+1.5 / -0.5



Side:
±1



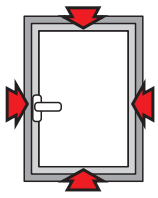
Bottom hinge compression:
±0.3



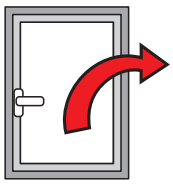
Top hinge compression:
±1.5

Table of maximum glass thickness [mm]

	350	500	600	700	800	900	1000	1100	1200	1300
2500	25	21	18	16	14	13	11	10	10	
2400	26	22	19	16	15	13	12	11	10	
2300	27	23	19	17	15	14	12	11	10	
2200	29	24	20	18	16	14	13	12	11	
2100	30	25	21	19	17	15	14	12	11	
2000	31	26	22	20	17	16	14	13	12	
1900	33	28	24	21	18	17	15	14	13	
1800	35	29	25	22	19	17	16	15	13	
1700	37	31	26	23	21	18	17	15	14	
1600	39	33	28	25	22	20	18	16	15	
1500	42	35	30	26	23	21	19	17	16	
1400	45	37	32	28	25	22	20	19	17	
1300	48	40	34	30	27	24	22	20	17	
1200	50	44	37	33	29	26	24	20	17	
1100	50	48	41	36	32	29	24	20		
1000	50	50	45	39	35	29	24			
900	50	50	50	44	35	29				
800	50	50	50	45	35					
700	50	50	50	45						
600										



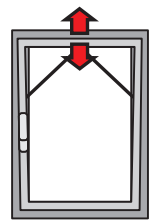
Striker compression:
±1.8



Sash fall:
+3.5 / -1.5

Table of maximum load capacity [kg]

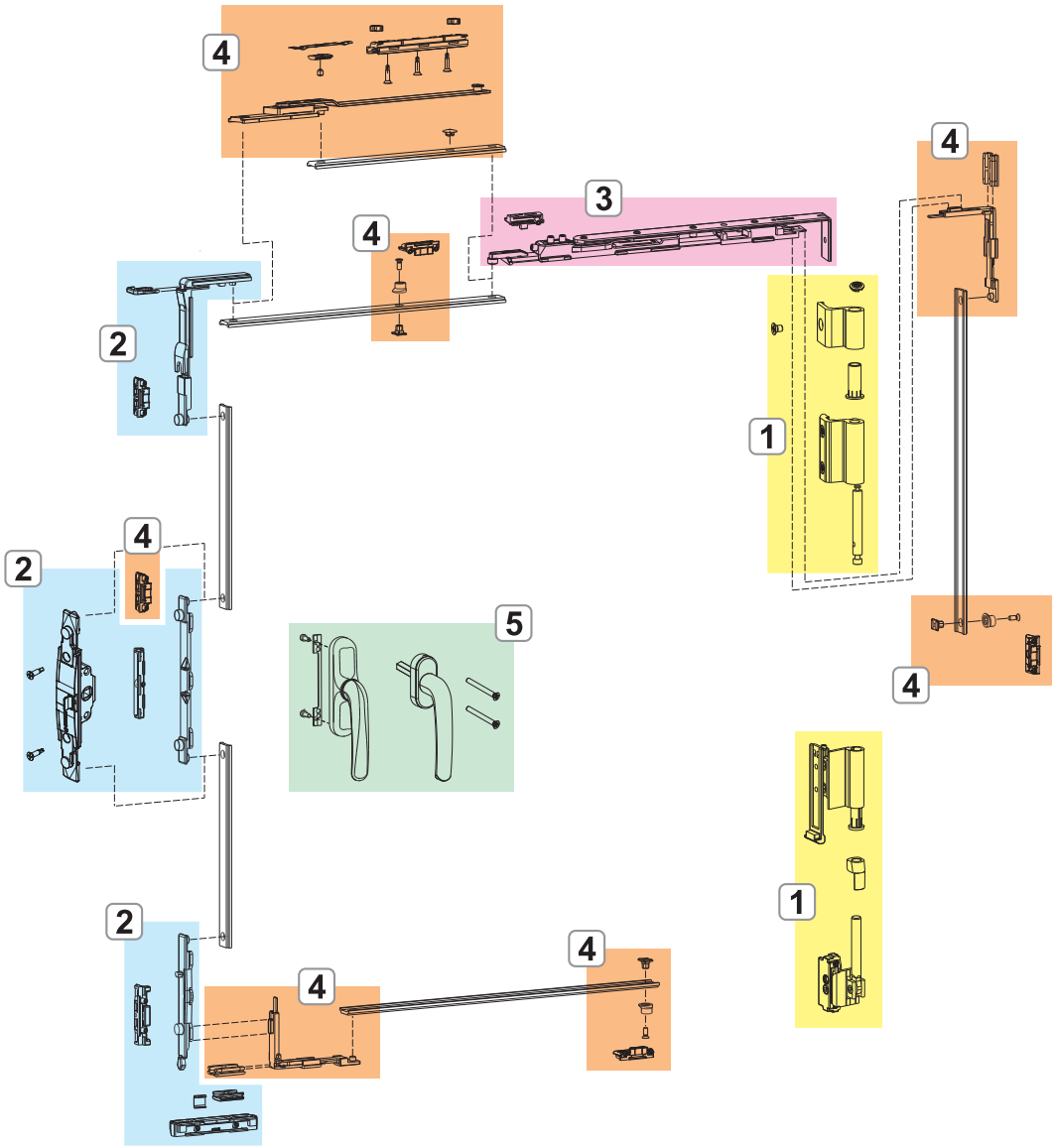
	350	500	600	700	800	900	1000	1100	1200	1300
2500	80	80	80	80	80	80	80	80	80	
2400	80	80	80	80	80	80	80	80	80	
2300	80	80	80	80	80	80	80	80	80	
2200	80	80	80	80	80	80	80	80	80	
2100	80	80	80	80	80	80	80	80	80	
2000	80	80	80	80	80	80	80	80	80	
1900	80	80	80	80	80	80	80	80	80	
1800	80	80	80	80	80	80	80	80	80	
1700	80	80	80	80	80	80	80	80	80	
1600	80	80	80	80	80	80	80	80	80	
1500	80	80	80	80	80	80	80	80	80	
1400	80	80	80	80	80	80	80	80	78	
1300	80	80	80	80	80	80	80	79	73	
1200	80	80	80	80	80	80	79	73	67	
1100	80	80	80	80	80	80	73	67		
1000	80	80	80	80	80	73	66			
900	80	80	80	80	73	66				
800	80	80	80	73	65					
700	80	80	73	64						
600										



Micro-ventilation:
+3.6 / -1.8

CLASSIC 3D
80 micro

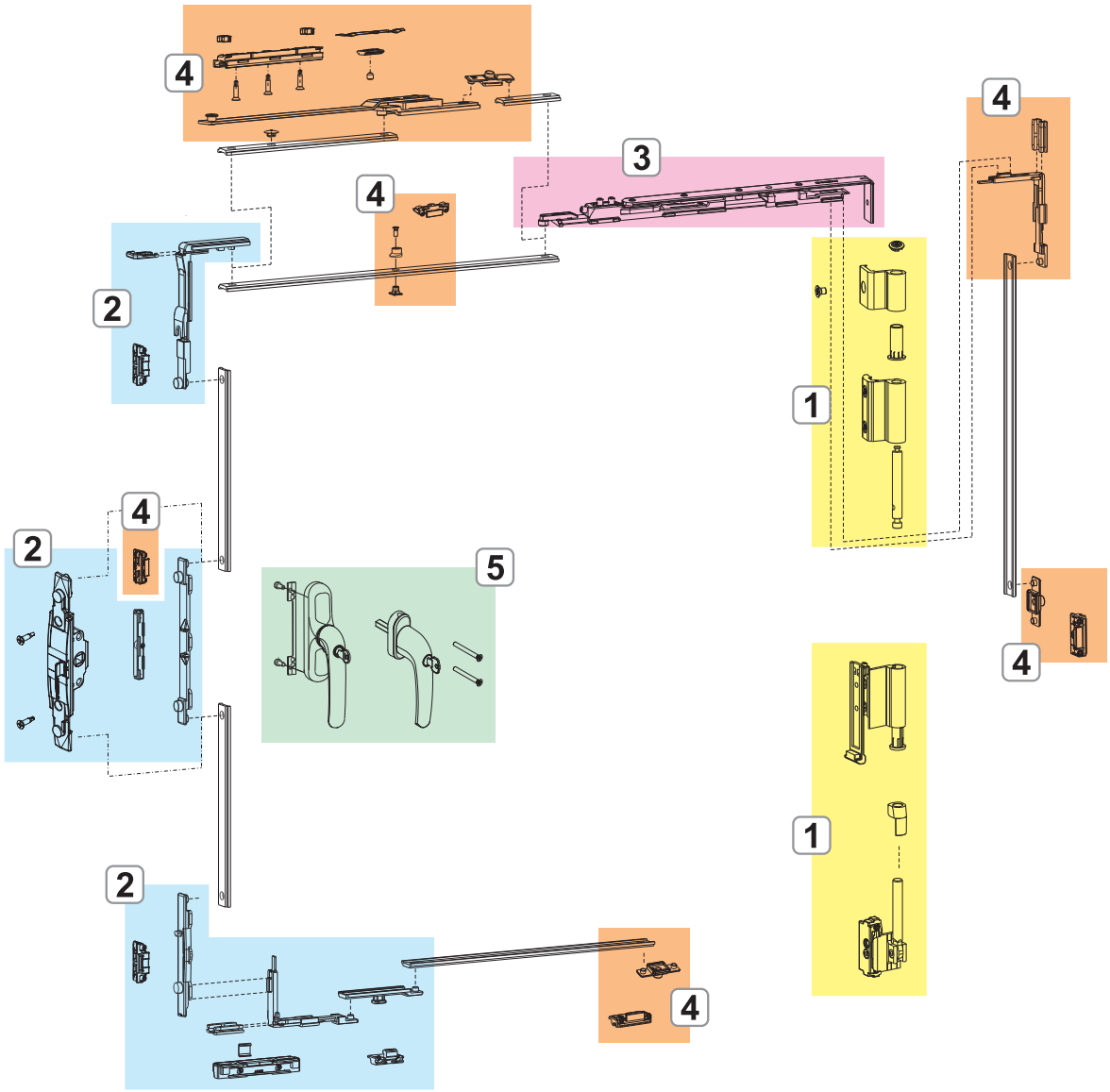
Classic 3D 80 traditional



1. CLASSIC 3D 80 HINGES
2. CLASSIC 3D 80 FASTENING MECHANISMS
3. CLASSIC 3D 80 ARMS
4. CLASSIC 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

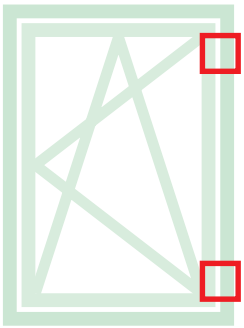
CLASSIC 3D
80 lgc

Classic 3D 80 logica



1. CLASSIC 3D 80 HINGES
2. CLASSIC 3D 80 FASTENING MECHANISMS
3. CLASSIC 3D 80 ARMS
4. CLASSIC 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
5. CREMONES AND WINDOW HANDLES

CLASSIC 3D 80 HINGES



Functions

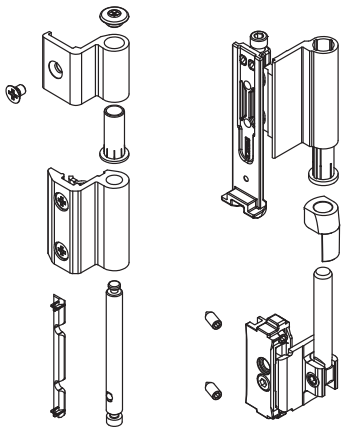
Hinge set (upper and lower), completely pre-assembled and ready to be installed on the profile.

Materials

Extruded aluminium hinge body.
Supports in zamak with GS Silver Plus finish (up to 500 hr corrosion resistance).
Pins, screws and grub screws in stainless steel.

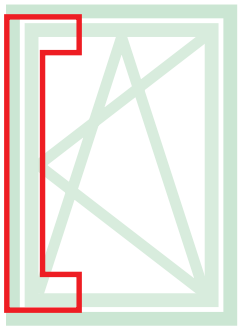
Online data sheet

04739



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04739	HINGE T/T CLASSIC 80	C001-C002-C003-C005	X	X	X		10

CLASSIC 3D 80 FASTENING MECHANISMS



Functions

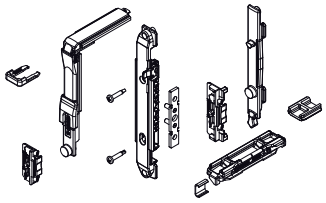
Tilt-and-turn window fastening mechanisms for cremone or window handle, available in Base and Logica versions.

Materials

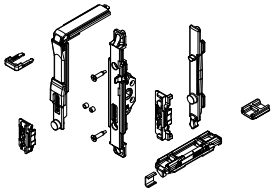
Drive, drive rod, mechanism bolt tip and strikers in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance).
Screws and grub screws in stainless steel.
Polyamide raiser.

Online data sheet

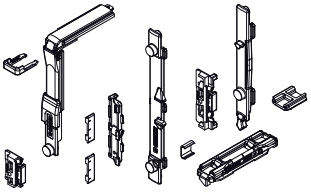
0395501



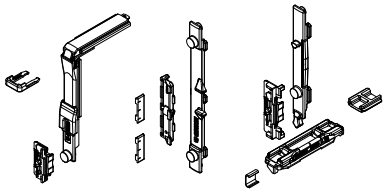
04371



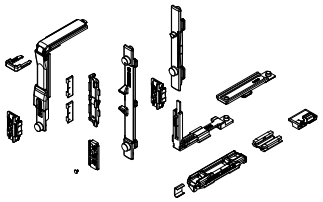
04704



04704010

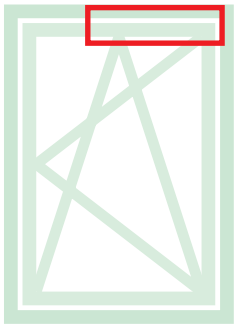


04706N



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0395501	T/T FASTENING MECHANISM	C001-C002-C003-C005-C006-C013-C014-C015-C017	NP SUPRA	-	X				10
04371	FASTENING MECHANISM T/T MOVEMENT M 180	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Window handle	-	X				10
04704	T/T FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	-	X				10
04704010	T/T FASTENING MECHANISM	C003	Cremone	-	X				10
04706N	T/T LOGICA FASTENING MECHANISM	C001-C002-C004-C005-C006-C013-C014-C015-C016-C017	Cremone	Logica	X				10

CLASSIC 3D 80 ARMS



Functions

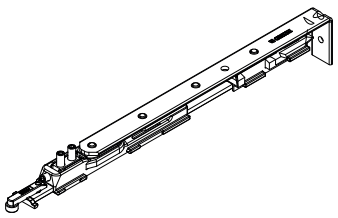
They enable tilt-and-turn opening in conjunction with the mechanisms and are available in three versions (standard, microventilation and logic).

Materials

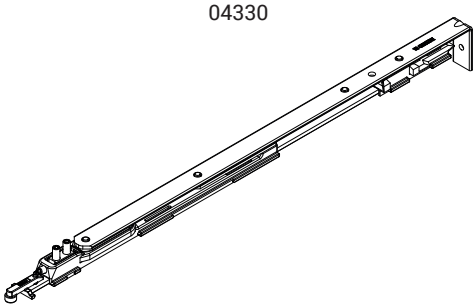
Body, fixing block and slider in zamak with GS Silver Plus finish (up to 500 h of corrosion resistance). Rod, connecting bracket, grub screws and screws in stainless steel. Stop disk in polyamide.

Online data sheet

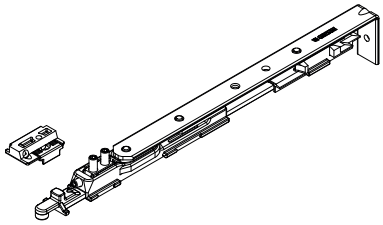
04329



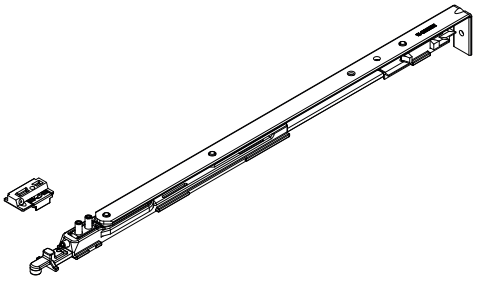
04330



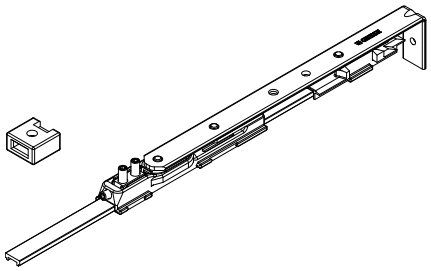
04339



04340

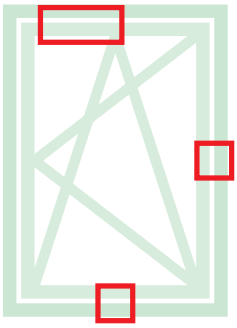


04352



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04329	ARM TYPE 1 T/T CLASSIC 3D 80 LOGICA	C001-C002-C003-C005	W 390 ÷ 1300	Logica	X				10
04330	ARM TYPE 2 T/T CLASSIC 3D 80 LOGICA	C001-C002-C003-C005	W 550 ÷ 1700	Logica	X				10
04339	ARM TYPE 1 T/T CLASSIC 3D 80 MICRO	C001-C002-C003-C005	W 410 ÷ 1300	Micro	X				10
04340	ARM TYPE 2 T/T CLASSIC 3D 80 MICRO	C001-C002-C003-C005	W 550 ÷ 1700	Micro	X				10
04352	ARM TYPE 0 T/T CLASSIC 80	C001-C002-C003-C005	W 350 ÷ 410	-	X				10

CLASSIC 3D 80 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES

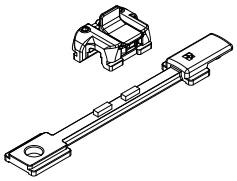


Functions

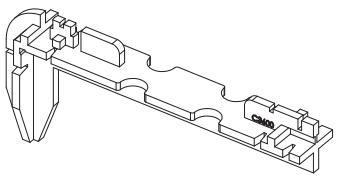
The additional fasteners make it possible to add further fastening elements that either increase the dimensions of the casement or that can be used when locking points are needed on the cross beams or hinge-side upright.
On the basis of the dimensions of the casement, additional fasteners (for H>1200 mm and W>1000 mm) and the additional arm (which is mandatory for W>1000 mm if the sash weighs more than 60 kg) are to be used in combination with this mechanism.

Online data sheet

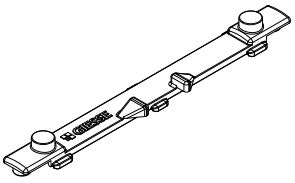
01299



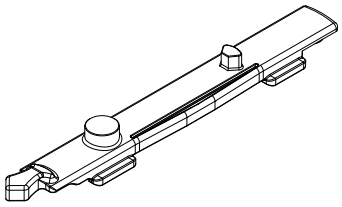
03528



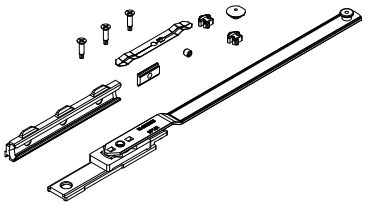
04014K



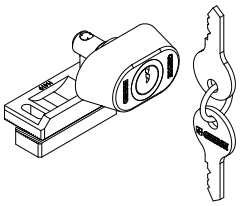
04026K



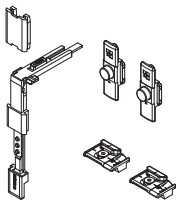
04301K



04311

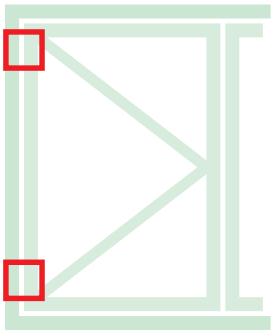


04778



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01299	INCORRECT MOVEMENT SAFETY DEVICE	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	H > 620 HC > 250	-	X				10
03528	TEMPLATE	C001-C002-C003-C004-C005-C006	-	-	X				20
04014K	FUTURA T/T DRIVE ROD	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04026K	FUTURA T/T BOLT TIP	C001-C002-C003-C004-C005-C006-C013-C014-C015-C016-C017	-	-	X				10
04301K	T/T FUTURA ADDITIONAL ARM	C001-C002-C003-C004-C005-C006	W > 1000	-	X				5
04311	SASH OPENING BLOCK LOCK	C001-C002-C003-C004-C005-C006-C007-C013-C014-C015-C016-C017	-	-	X				10
04778	FUTURA ADDITIONAL FASTENING MECHANISM	C001-C002-C003-C005	H > 1200 L > 1000	-	X				10

CLASSIC 80 SECONDARY SASH



Functions

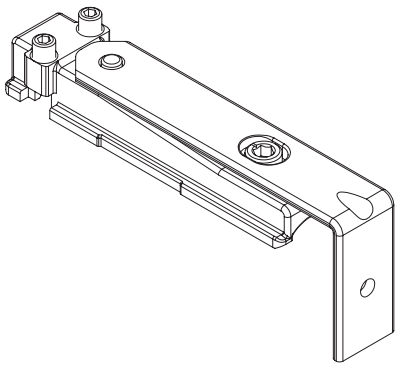
Adapter for CLASSIC 3D 80 tilt-and-turn secondary sash hinges.
The adapter lets you turn the set of tilt-and-turn hinges into hinges for a secondary sash, keeping the same design, adjustments, dimensions and capacities achievable with a main sash.

Materials

Grub screws and false arm rod made of steel
Support in zamak

Online data sheet

04727



Item code	Description	PROFILE CROSS - SECTION	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04727	CLASSIC 3D 80 SECONDARY SASH ADAPTER	C001-C002-C003-C005	X				10

CONFIGURATION EXAMPLES

CLASSIC 3D 80

Micro configuration with Cremone

MAIN SASH		
Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04704	04704
Arm	04339	04339
Additional arm	-	04301K*
Cremone	01039 - 01094	-
SECONDARY SASH		
Hinges	04739	04739
Adapter	04727	04727
Adjustable bolt	02168K	02168K
Striker	01348	01348

* Capacity > 60 kg

Micro configuration with window handle

MAIN SASH		
Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	0470501	0470501
Arm	04339	04339
Additional arm	-	04301K*
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997
SECONDARY SASH		
Hinges	04739	04739
Adapter	04727	04727
Adjustable bolt	02168K	02168K
Striker	01348	01348

* Capacity > 60 kg

Micro configuration with NP Supra

MAIN SASH		
Sash width	410 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	0395501	0395501
Arm	04339	04339
Additional arm	-	04301K*
NP Supra	03962 - 03963	03962 - 03963
SECONDARY SASH		
Hinges	04739	04739
Adapter	04727	04727
Adjustable bolt	02168K	02168K
Striker	01348	01348

* Capacity > 60 kg

Logica configuration with Cremone

MAIN SASH		
Sash width	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	04706N	04706N
Arm	04329	04329
Additional arm	-	04301K*
Cremone	01192 - 01193	-
SECONDARY SASH		
Hinges	04739	04739
Adapter	04727	04727
Adjustable bolt	02168K	02168K
Striker	01348	01348

* Capacity > 60 kg

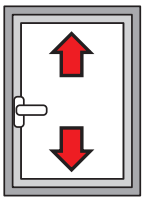
Logica configuration with window handle

MAIN SASH		
Sash width	390 ÷ 1000	1001 ÷ 1300
Hinges	04739	04739
Mechanism	0470701	0470701
Arm	04329	04329
Additional arm	-	04301K*
Window handle	02486	02486
SECONDARY SASH		
Hinges	04739	04739
Adapter	04727	04727
Adjustable bolt	02168K	02168K
Striker	01348	01348

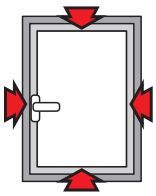
* Capacity > 60 kg

GS990

ADJUSTMENTS [mm]



Height:
+1.5 / -0.5



Striker compression:
±0,9



Sash fall:
+3.5 / -1.5

GS990

Functions

Complete system for the construction of GS990 tilt-and-turn windows.

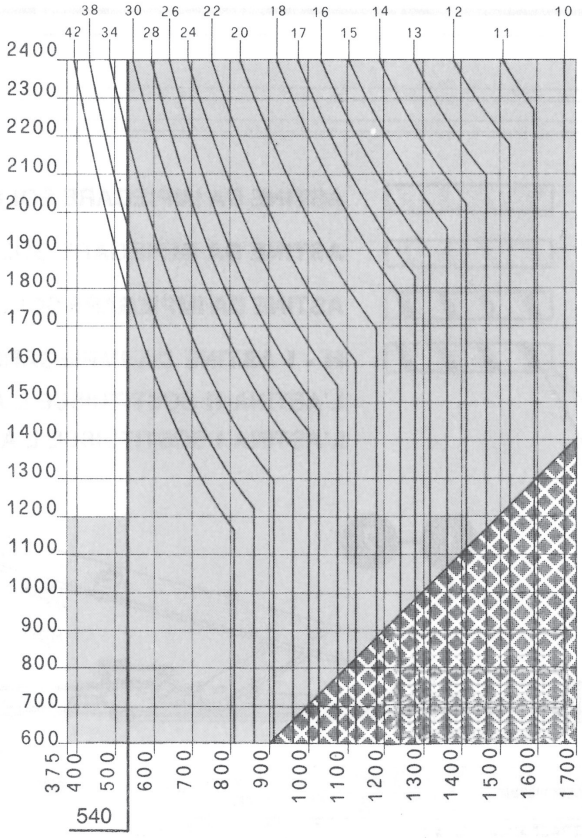
Technical Features

The GS990 tilt-and-turn window is composed of:
- T/T GS990 STANDARD FASTENING MECHANISMS
- ARMS, available in two versions depending on the width of the sash
- Cremone or window handle (available in various models)

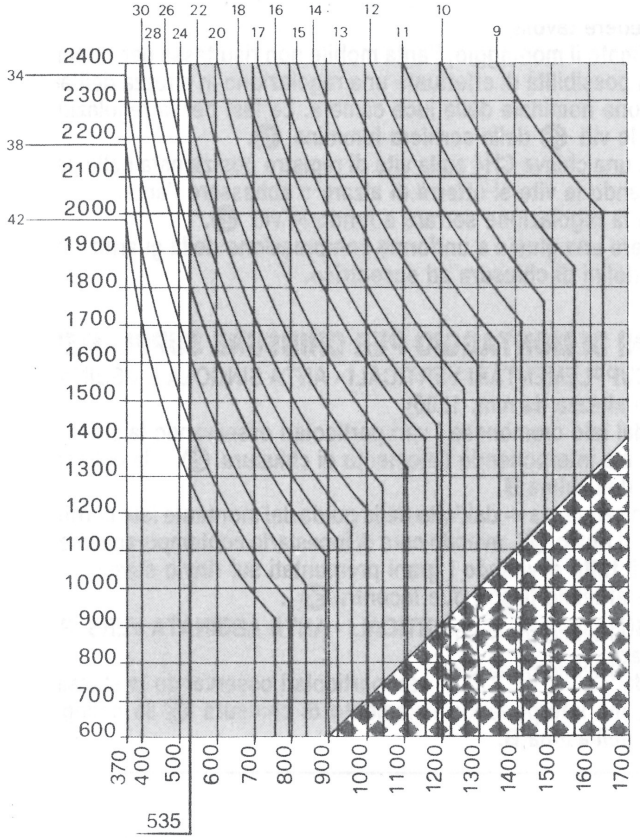
Adjustments

The adjustments are micrometric and indipendent.

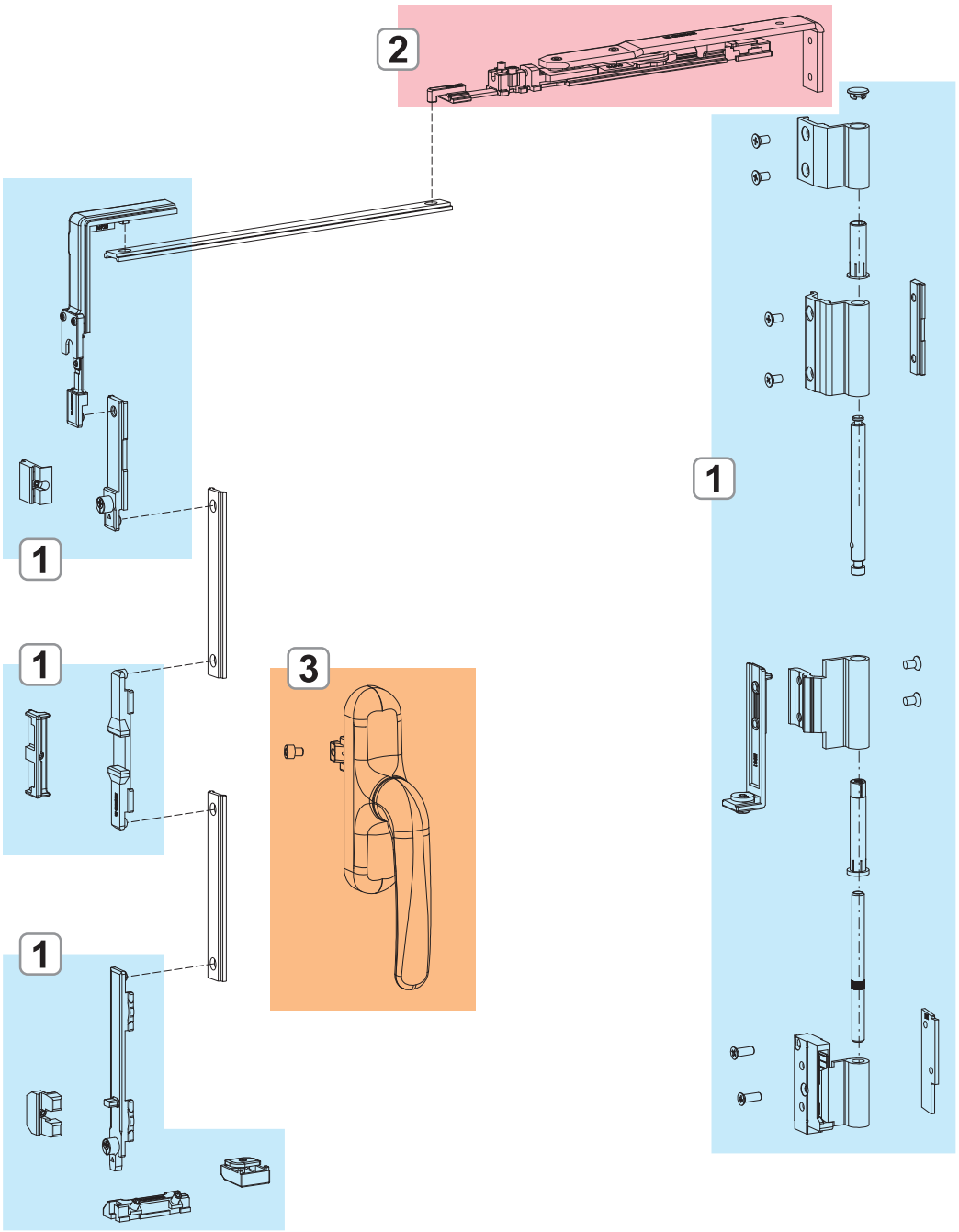
Graph of sizes and load capacities for art.: 04507, 04529



Graph of sizes and load capacities for art.: 04516, 04518

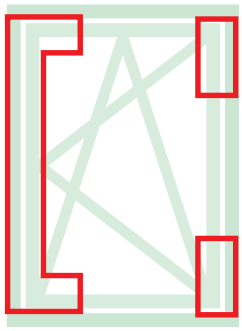


GS990



1. GS990 BASIC MECHANISM
2. GS990 ARMS
3. GS990 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES
4. CREMONES

GS990 BASIC MECHANISM



Functions

Complete system for the construction of GS990 tilt-and-turn windows

Technical Features

Mechanisms including hinges and hardware: available in various finishes. The hinges are supplied completely pre-assembled and ready to be installed on the profile, the hardware consists of ready-assembled accessories that make installation easy and instant

Materials: Hinges

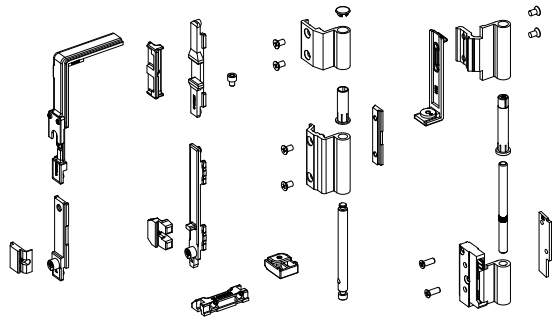
Body of hinges in extruded aluminium and zamak supports.
Pins, screws and grub screws in stainless steel.

Materials: Mechanism

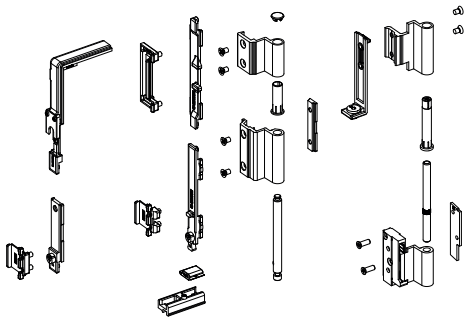
Drive, drive rod, mechanism bolt tip and strikers in zamak.
Screws and grub screws in stainless steel.
Polyamide raiser.

Online data sheet

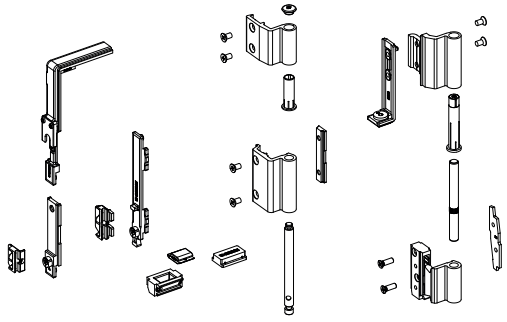
0450701



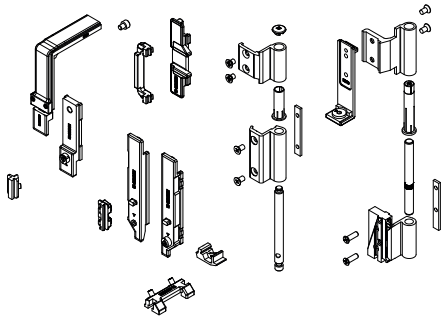
0451601



0451801

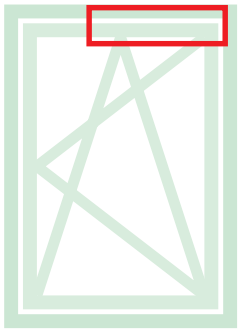


0452901



Item code	Description	PROFILE CROSS - SECTION	Mechanism	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0450701	AR GS990 BASIC MECHANISM	C009	Cremone	X	X	X	X	5
0451601	AR GS990 BASIC MECHANISM	C010	Cremone		X	X	X	5
0451801	AR GS990 BASIC MECHANISM	C011	Window handle		X		X	5
0452901	AR GS990 BASIC MECHANISM	C008	Cremone	X	X	X	X	5

GS990 ARMS



Functions

Complete system for the construction of GS990 tilt-and-turn windows

Technical Features

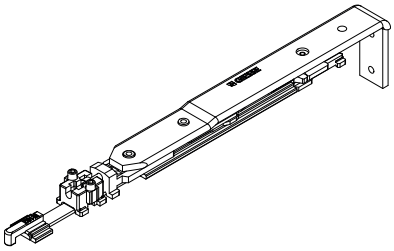
Mechanisms including hinges and hardware: available in various finishes. The hinges are supplied completely pre-assembled and ready to be installed on the profile, the hardware consists of ready-assembled accessories that make installation easy and instant

Materials

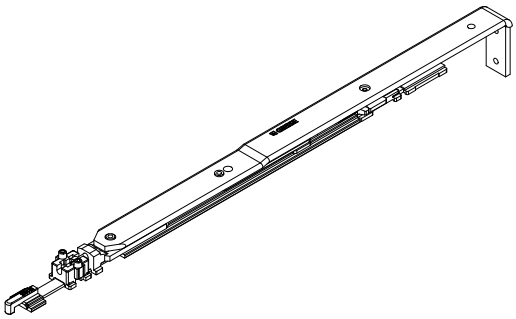
Body, fixing block and slider in zamak, mechanism rod in aluminium.
Arm rod, connecting bracket, grub screws and screws in stainless steel.
Stop disk in polyamide.

Online data sheet

ARM T1 GS990

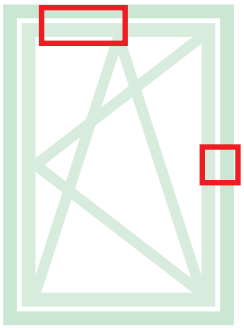


ARM T2 GS990



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0421101	ARM T1 GS990	C010-C011	W 370 ÷ 535	X				5
0421701	ARM T1 GS990	C009	W 375 ÷ 540	X				5
0422101	ARM T1 GS990	C010-C011	W 536 ÷ 1700	X				5
0422301	ARM T2 GS990	C010-C011	W 536 ÷ 1700	X				5
0422701	ARM T2 GS990	C009	W 541 ÷ 1700	X				5

GS990 ADDITIONAL FASTENING MECHANISMS AND ACCESSORIES



Functions

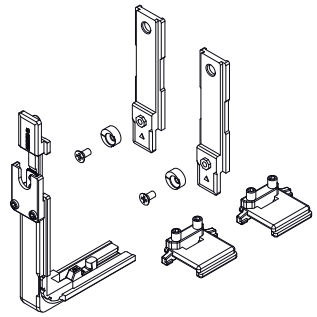
Arm that allows the bottom-hung opening in combination with the GS990 tilt-and-turn mechanisms.

Technical Features

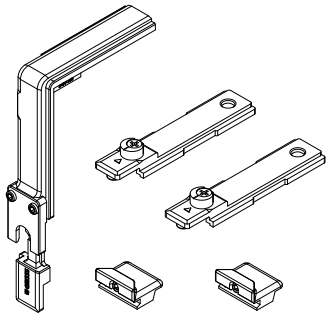
They enable tilt-and-turn opening in conjunction with the mechanisms and are available in two versions depending on the width of the sash.

Online data sheet

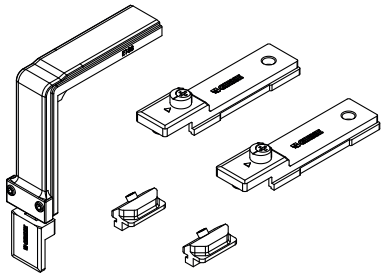
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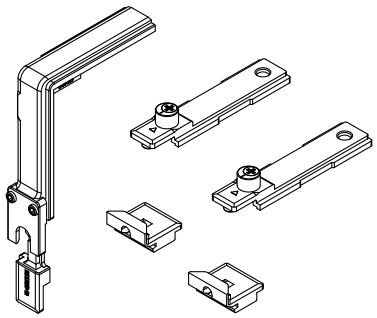
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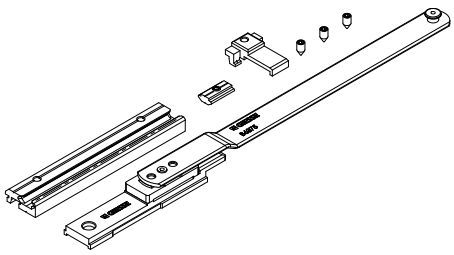
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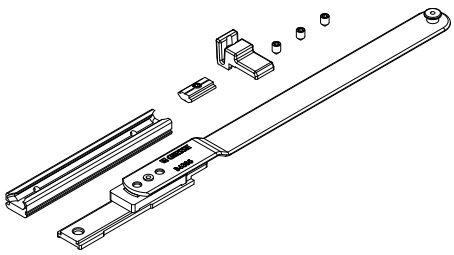
0424701



0460601



0430701



Item code	Description	PROFILE CROSS - SECTION	Range (mm)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0424001	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C010	H > 1200	X				10
0424101	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C011	H > 1200	X				10
0424601	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C008	H > 1200	X				10
0424701	VERTICAL ADDITIONAL FASTENING MECHANISM GS990	C009	H > 1200	X				10
0430601	ADDITIONAL ARM	C008	W > 1000	X				5
0430701	ADDITIONAL ARM	C009	W > 1000	X				5

CONFIGURATION EXAMPLES

GS990

Basic configuration with Cremone
(profile cross-sections type 8 and 9)

MAIN SASH		
Sash width	375 ÷ 540	541 ÷ 1700
Mechanism	0452901 - 0450701	0452901 - 0450701
Arm	0421701	0422701
Additional arm	-	0430601 - 0430701
Cremone	01039 - 01090K	01039 - 01090K

Basic configuration with window handle
(profile cross-section type 11)

MAIN SASH		
Sash width	370 ÷ 535	536 ÷ 1700
Mechanism	0451801	0451801
Arm	0421101	0422301
Additional arm	-	04301K
Window handle	02476 - 02415 - 00997	02476 - 02415 - 00997

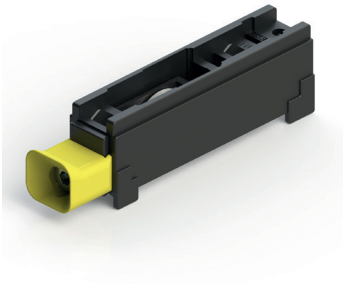
Basic configuration with Cremone
(profile cross-section type 10)

MAIN SASH		
Sash width	370 ÷ 535	536 ÷ 1700
Mechanism	0451601	0451601
Arm	0421101	0422301
Additional arm	-	04301K
Cremone	01039 - 01090K	01039 - 01090K

GIESSE
TYMAN group

ACCESSORIES AND FASTENING MECHANISMS FOR SLIDERS





ADJUSTABLE CARRERA 1 PULLEYS

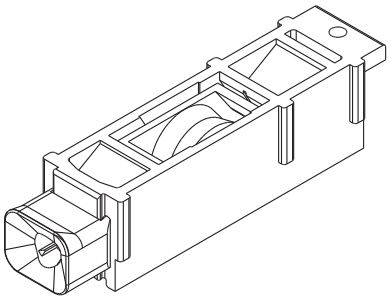
Functions
Adjustable pulley with one wheel for doors and windows in aluminium.

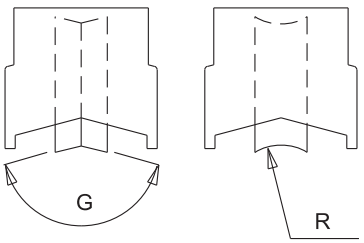
Online data sheet

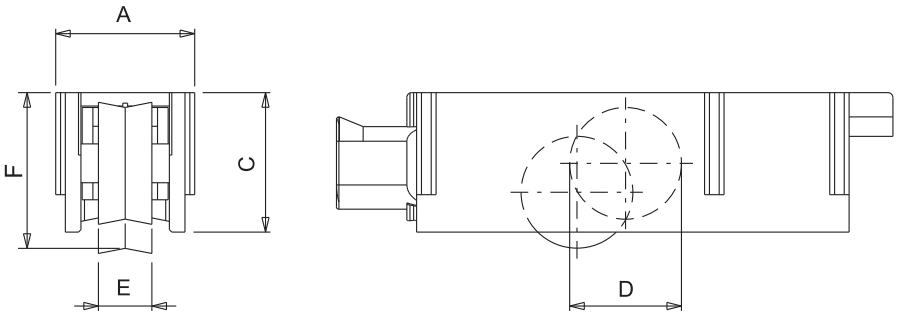
Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
Micrometrically adjustable, it enables moving the sash vertically in an overall range of on average 4 mm (see adjustment column in the table).
Adjustment is easy since the adjustment screw is located inside the yellow centring element which facilitates insertion of the key. The adjustment can also be made with the sash already mounted and installed.
The wheels are mounted on ball bearings or needle bearings depending on the model and can be removed together with the support without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

Materials
External support in grey polyamide
Yellow polyamide centring element
Wheel internal support in Silver Plus zamak or polyamide depending on the version (see table)
Wheel with bearing in steel and neutral reinforced polyamide cover
Mounting grubscrew and adjustment screw in stainless steel

Capacities
see table







Item code	Description	Note	Pulley Load Capacity [kg]	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°] R [mm]	Bearing type	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02633	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	30	20,5	29,3	19	8	27,1	+2.2/ -2.6	150°	Balls	Polyam-ide	Zamak	X				40
02914	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	40	25,5	26,1	27	11	29,7	+2.5/- 2.5	5 mm	Balls	Polyam-ide	Zamak	X				100
03104	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	27,4	23,4	19	8	26,6	+2,6/ -2,3	150°	Balls	Polyam-ide	Zamak	X				100
03146N	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	55	28	30	28,8	12	32	+2.4/ -3.4	156°	Balls	Polyam-ide	Zamak	X				200
03147N	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	55	28	30	27,3	11	30,2	+2.2/ -2.8	10.1 mm	Balls	Polyam-ide	Zamak	X				200
03148N	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	24,5	23,6	21,7	9	26,9	+4.7/ -2.1	150°	Balls	Polyam-ide	Zamak	X				200
03290	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	22,7	25,8	20,4	8	24,6	+2.7/ -2.1	150°	Roller	Polyam-ide	Zamak	X				40
03297	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	25	28	30	28,6	11	32	+2.4/ -3.4	156°	Balls	Polyam-ide	Zamak	X				200
03324	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	25,5	28,8	19	12	26	+3/ -2.2	150°	Roller	Polyam-ide	Zamak	X				200
03398	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	22,7	25,8	19	8	23,7	+2.7/ -2.1	150°	Balls	Polyam-ide	Zamak	X				100
03473	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	55	27,7	30	26	11	30,6	+3.3/ -2.5	4 mm	Balls	Polyam-ide	Zamak	X				200
04560	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	22,7	25	19	8	24,5	+/ -2.3	150°	Balls	Polyam-ide	Zamak	X				100
06504	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	40	22,2	23	19	8	23	+2.1/ -2.7	5 mm	Balls	Polyam-ide	Zamak	X				100
06955	CARRERA 1 ADJUSTABLE PULLEY	Bulk packag-ing	45	22,7	25,8	19	8	24,6	+2.7/ -2.1	150°	Balls	Polyam-ide	Zamak	X				40
00806	CARRERA 1 ADJUSTABLE PULLEY	Set of 4 pcs.	45	22,7	25,8	19	8	23,7	+2.7/ -2.1	150°	Balls	Polyam-ide	Zamak	X				16
03178	CARRERA 1 ADJUSTABLE PULLEY	Set of 4 pcs.	45	22,7	25	19	8	24,5	+/ -2.3	150°	Balls	Polyam-ide	Zamak	X				50



ADJUSTABLE CARRERA 2 PULLEYS

Functions
Adjustable pulley with two wheels for doors and windows in aluminium.

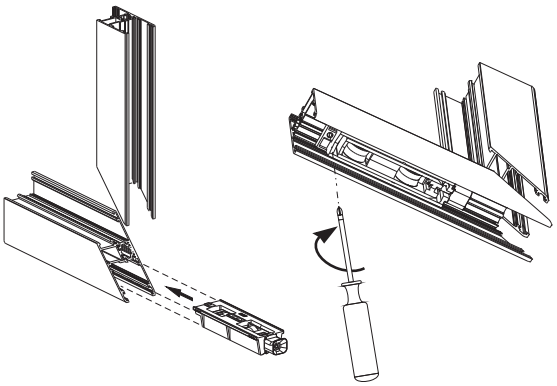
Online data sheet

Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
Micrometrically adjustable, it enables moving the sash vertically in an overall range of on average 4 mm (see adjustment column in the table).
Adjustment is easy since the adjustment screw is located inside the yellow centring element which facilitates insertion of the key. The adjustment can also be made with the sash already mounted and installed.
The wheels are normally mounted on ball bearings or needle bearings depending on the model and can be removed together with the support without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

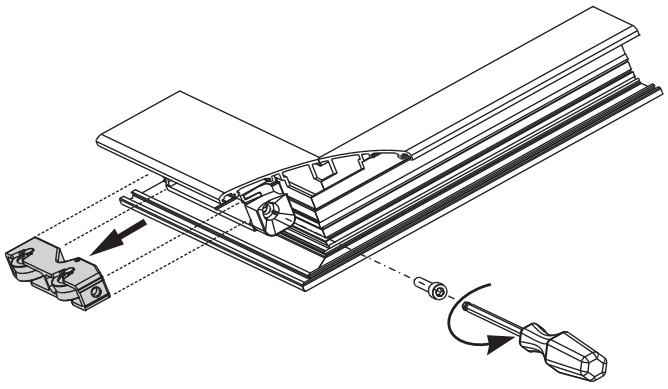
Materials
Support in grey polyamide
Yellow polyamide centring element
Wheel support in Silver Plus zamak
Wheel with bearing in steel and neutral reinforced polyamide cover
Mounting grubscrew and adjustment screw in stainless steel

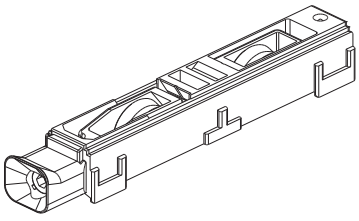
Capacities
see table

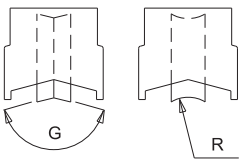
Pulley fixing

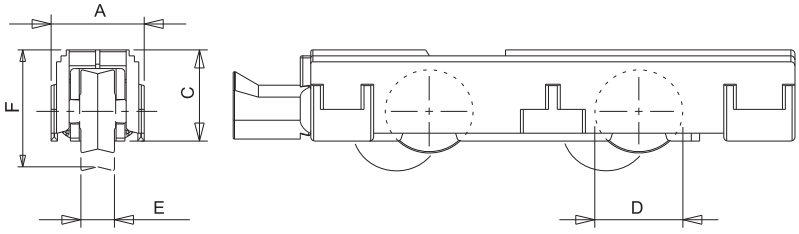


Wheel replacement

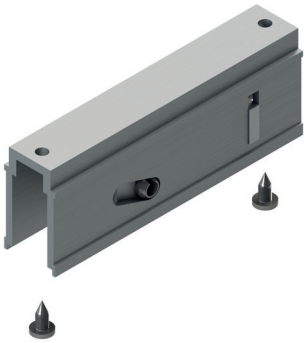








Item code	Description	Note	Pulley Load Capacity [kg]	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°] R [mm]	Bearing type	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02915	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	80	25,5	26,1	27	11	29,7	+2.5/-2.5	5 mm	Balls	Polyam-ide	Zamak	X				100
03105	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	27,4	23,6	19	8	26,6	+2,6/-2,3	150°	Balls	Polyam-ide	Zamak	X				100
03136N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28	30	28,8	12	31,3	+2.6/-2.8	156°	Balls	Polyam-ide	Zamak	X				200
03137N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28	30	27,3	11	29,4	+3.3/-1.7	10.1 mm	Balls	Polyam-ide	Zamak	X				200
03141N	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	24,5	23,6	21,7	9	27	+2.3/ -3	150°	Balls	Polyam-ide	Zamak	X				200
03291	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	22,7	25,8	19	8	24,6	+2.8/-2.1	150°	Roller	Polyam-ide	Zamak	X				40
03298	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	50	17,7	30	27	11	31,3	+2.6/-2.8	156°	Balls	Polyam-ide	Zamak	X				200
03325	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	25,5	28,8	19	12	26	+3/ -2.2	150°	Roller	Polyam-ide	Zamak	X				200
03390	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	27,7	22,4	19,2	9	26,3	+2.6/-2.2	120°	Balls	Polyam-ide	Zamak	X				100
03397	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	19	23,2	19	8	23,7	+1.4/-2.3	150°	Balls	Polyam-ide	Zamak	X				100
03471	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	36	28,7	24,4	11	28,5	+2.9/-2.5	158°	Balls	Polyam-ide	Zamak	X				200
03472	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	27,7	30	26	11	29	+3.5/ -1	4 mm	Balls	Polyam-ide	Zamak	X				200
03534	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	60	31,5	22	22,5	9	25,3	+2.5/-2.5	2.6 mm	Balls	Polyam-ide	Zamak	X				100
03557	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	31,5	23,2	20	9	26,3	+2.3/ -3	160°	Balls	Polyam-ide	Zamak	X				50
04542	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	22,2	21	19	8	21,5	+3.5/ -1	150°	Balls	Polyam-ide	Zamak	X				100
04546	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	22,2	23	19	8	22,5	+2.6/-2.2	150°	Balls	Polyam-ide	Zamak	X				100
04549	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	110	28,5	23,2	20	9	26,3	+2.3/ -3	156°	Balls	Polyam-ide	Zamak	X				100
04563	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	28,5	23,2	20	9	25,6	+2.6/-2.4	150°	Balls	Polyam-ide	Zamak	X				100
04572	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	70	24,6	32	18,4	8	30,5	+2.5/-2.2	140°	Balls	Polyam-ide	Zamak	X				100
04600	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	90	38,2	19,5	20	9	25	+3.5/-1.7	156°	Balls	Polyam-ide	Zamak	X				100
06512	CARRERA 2 ADJUSTABLE PULLEY	Bulk pack-aging	80	22,2	23	19	8	19,3	+2.1/-2.7	2.6 mm	Balls	Polyam-ide	Zamak	X				100
00801	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	19	23,2	19	8	27,7	+1.4/-2.3	150°	Balls	Polyam-ide	Zamak	X				22
02985	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	21	18	12	22	+2.6/-2.2	120°	Balls	Polyam-ide	Zamak	X				50
03116	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	31,5	23,2	20	9	26,3	+2.3/-2.9	156°	Balls	Polyam-ide	Zamak	X				50
03118	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	28,5	23,2	20	9	26,3	+2.3/-2.9	156°	Balls	Polyam-ide	Zamak	X				50
03120	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	21	19	8	21,5	+3.5/ -1	150°	Balls	Polyam-ide	Zamak	X				50
03125	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	23	19	8	22,5	+2.6/-2.2	150°	Balls	Polyam-ide	Zamak	X				50
03133	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	110	28,5	23,2	20	9	26,3	+2.3/ -3	156°	Balls	Polyam-ide	Zamak	X				50
03139	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	22,2	23	19	8	22,5	+2.6/-2.2	150°	Balls	Polyam-ide	Zamak	X				50
03183	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	37,8	22	19	12	23,3	+3/ -1.3	160°	Roller	Polyam-ide	Polyam-ide	X				20
03289	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	90	29,4	22,5	19	12	22,5	+2.5/-1.5	150°	Roller	Polyam-ide	Polyam-ide	X				50
06503	CARRERA 2 ADJUSTABLE PULLEY	Set of 4 pcs.	80	22,2	23	19	8	23	+2.1/-2.7	5 mm	Balls	Polyam-ide	Zamak	X				50



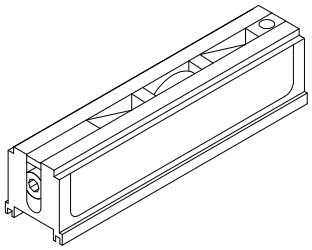
ADJUSTABLE PULLEYS 1 WHEEL

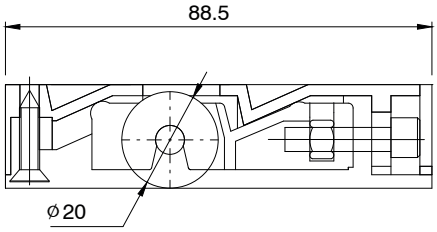
Functions

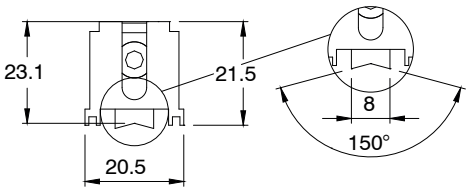
Adjustable pulley with one wheel for doors and windows in aluminium.

Online data sheet

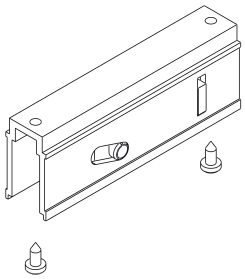
00859

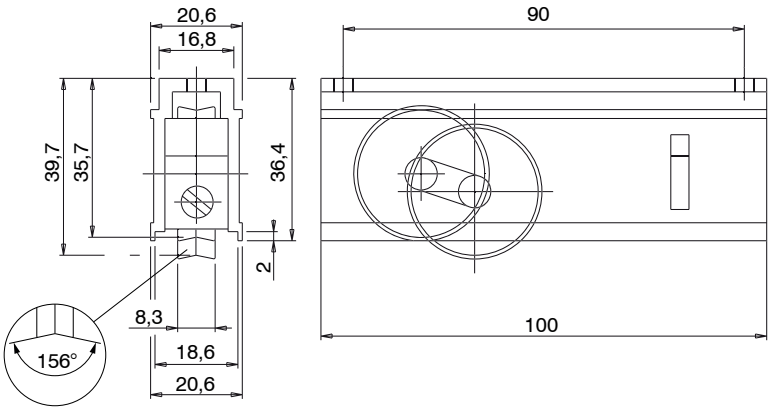




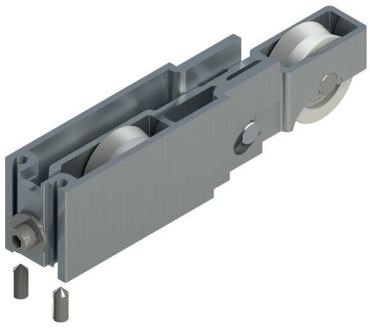


03122





Item code	Description	Note	Pulley Load Capacity [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
00859	ADJUSTABLE 1 WHEEL PULLEY	set of 4 pieces	20	X				16
03122	ADJUSTABLE 1 WHEEL PULLEY	set of 4 pieces	35	X				40



ADJUSTABLE PULLEYS 2 WHEELS

Functions

Pulley in extruded aluminium, adjustable, with two wheels, for windows and sliding doors in aluminium.

Online data sheet

Technical Features

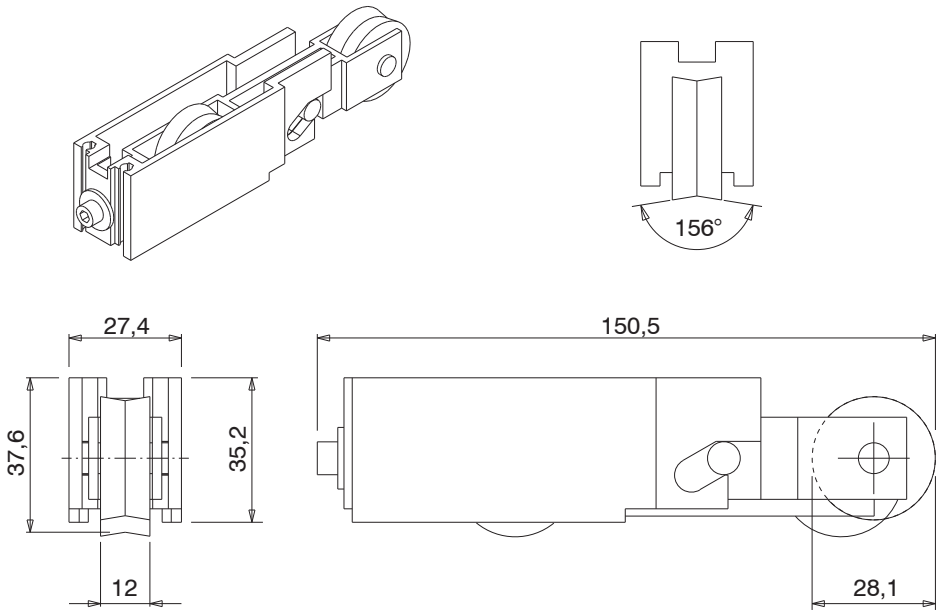
The pulley is micro-adjustable and allows vertical movement of the sash through a range of 4 mm.
Its special feature is that it can be inspected without having to disassemble the sash, by screwing in the adjustment screw.
The wheels are mounted on ball bearings.

Materials

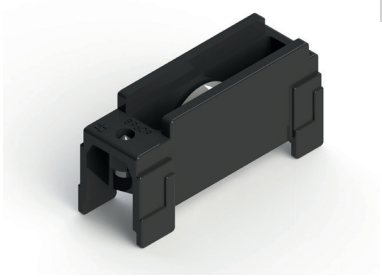
Extruded aluminium supports
Wheels with bearing in steel and reinforced polyamide cover
Self-braking plug in fibreglass reinforced polyamide
Screws and grub screws in stainless steel

Capacities

kg. 240 with 2 pulleys



Item code	Description	Note	Pulley Load Capacity [kg]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0315202	2-WHEEL ADJUSTABLE PULLEY	set of 4 pieces	120	X				10



FIXED CARRERA 1 PULLEYS

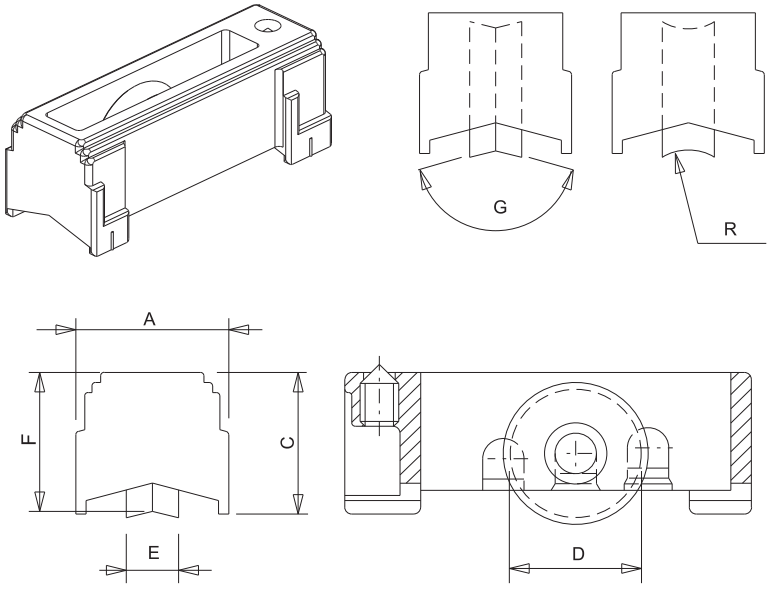
Functions
Fixed pulley with one wheel for doors and windows in aluminium.

Online data sheet

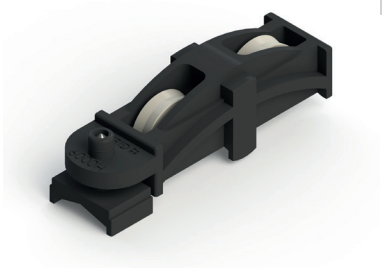
Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
The pulley does not allow micrometric adjustment of the sash. It is in any case possible to vary the position of the wheel with a range that on average varies from +1 to -1 mm (in fixed positions). This adjustment is achieved by moving the wheel into different locations inside the pulley body.
The wheels are normally mounted on ball bearings or needle bearings depending on the model and can be removed without having to disassemble the pulley.
The wheels with bearings are shielded to keep the grease inside them.

Materials
Support in grey polyamide
Wheel with bearing or rollers in steel and neutral reinforced polyamide cover.
Stainless steel mounting grubscrew

Capacities
see table



Item code	Description	Note	Load capacity (kg)	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Adjust-ment [mm]	G [°]	Bearing	External support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02632	FIXED CARRERA 1 PULLEY	Bulk packag-ing	50	19,6	29,3	21	8	27,1	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				40
02636	FIXED CARRERA 1 PULLEY	Bulk packag-ing	20	22,5	21,1	19	8	21,5	+0.8/-0.8	150°	-	Polyam-ide with fiberglass	X				100
02638	FIXED CARRERA 1 PULLEY	Bulk packag-ing	15	22,7	23	19	8	22,5	+0.8/-0.8	150°	-	Polyam-ide with fiberglass	X				100
03319	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	15,9	21	19	8	21,9	+1/-1	150°	Ball	Polyam-ide with fiberglass	X				100
03391	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	22,7	25	19	8	24,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				100
04538	FIXED CARRERA 1 PULLEY	Bulk packag-ing	55	31,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				100
04545	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	22,7	23	19	8	22,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				100
04548	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	28,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				100
04561	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	28,5	23	20	9	26,3	+2/-1	150°	Ball	Polyam-ide with fiberglass	X				100
06956	FIXED CARRERA 1 PULLEY	Bulk packag-ing	45	23	25,8	19	8	24,6	-	150°	Ball	Polyam-ide with fiberglass	X				40
03079	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	25	21	20	11,5	24,7	+1/-1	150°	Ball	Polyam-ide with fiberglass	X				200
03115	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	55	31,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				50
03119X	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,5	21,1	19	8	21,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				50
03123	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,7	23	19	8	22,5	+0.8/-0.8	150°	Ball	Polyam-ide with fiberglass	X				50
03132	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	28,5	23	20	9	26,3	+2/-1	156°	Ball	Polyam-ide with fiberglass	X				50
03138	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	45	22,8	23	19	8	22,5	+/-0,8	150°	Ball	Polyam-ide with fiberglass	X				50
03556	FIXED CARRERA 1 PULLEY	Set of 4 pcs.	55	31,5	23	20	9	26,3	+2/-1	160°	Ball	Polyam-ide with fiberglass	X				50



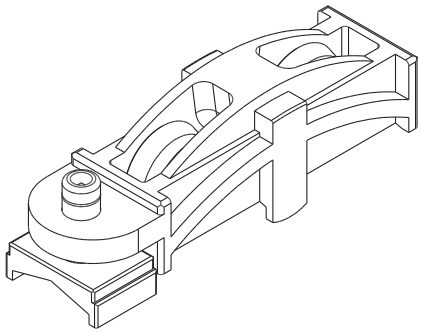
FIXED CARRERA 2 PULLEYS

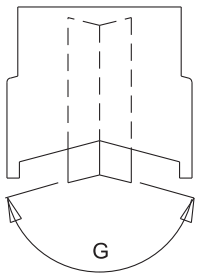
Functions
Fixed pulley with two wheels for doors and windows in aluminium.

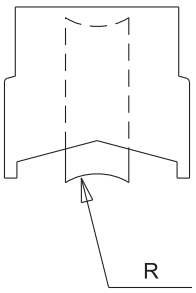
Online data sheet

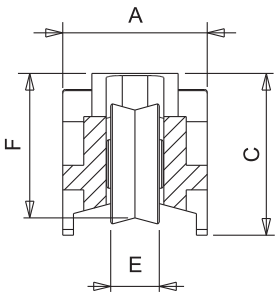
Technical Features
The pulley is fixed with a clamping grub screw, without requiring specific machining.
The wheels are mounted on ball bearings and are shielded to keep the grease inside them.

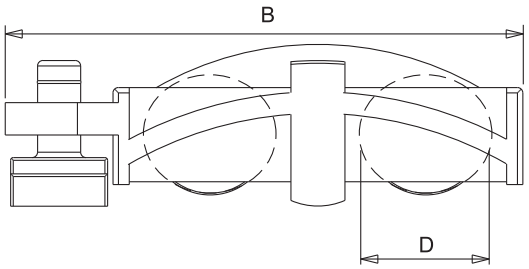
Materials
Support in grey polyamide.
Wheels with bearing in steel and neutral reinforced polyamide cover.
Stainless steel mounting grubscrew.











Item code	Description	Note	Load capacity (kg)	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [°]	Bearing	External support	Internal support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04559	CARRERA 2 FIXED PULLEY	Bulk packaging	90	26,8	30	19	9	26.8 (pivoting)	150°	Balls	Polyam-ide	-	X				100
06954	CARRERA 2 FIXED PULLEY	Bulk packaging	90	23	25,8	20	8	-	150°	Balls	Polyam-ide	zamak	X				40



FIXED PULLEYS 1 WHEEL

Functions

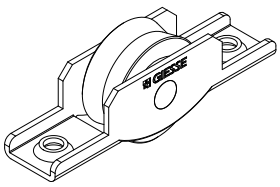
Pulley in extruded aluminium with one wheel for windows or sliding doors in aluminium.

Online data sheet

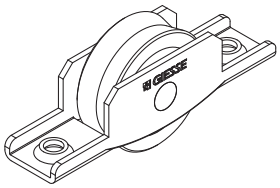
Technical Features

The wheel is mounted on a ball bearing.
Its special feature is that it can be inspected without having to disassemble the sash, by removing the fixing screws.

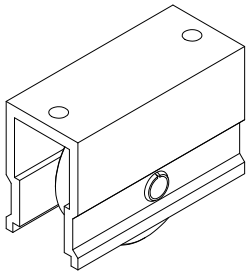
03529



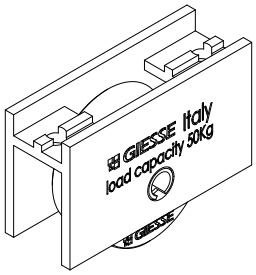
03539

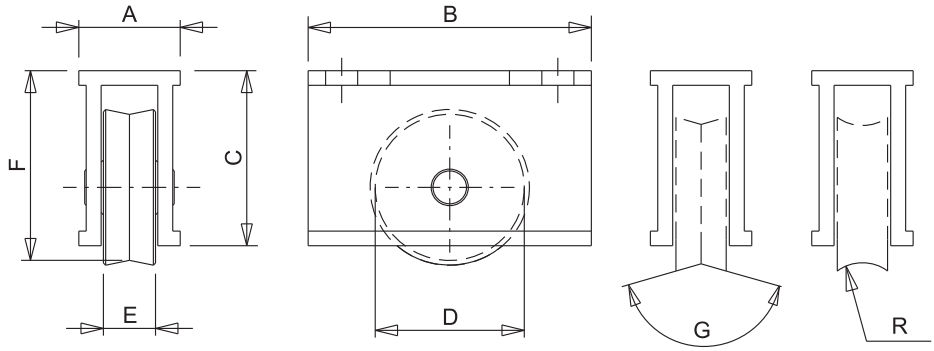


03121



03151N





Item code	Description	Note	Load capacity (kg)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [°]	Bearing	External support	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03529	FIXED PULLEY 1 WHEEL	Bulk packaging	50	16	70	15,6	24	11	/	156°	Balls	Steel	X				200
03539	FIXED PULLEY 1 WHEEL	Bulk packaging	50	16	70	18	28	11	-	156°	Balls	Steel	X				200
03121	FIXED PULLEY 1 WHEEL	Set of 4 pcs.	60	21,5	50	33	28	12	38,5	156°	Balls	Aluminium	X				50
03151N	FIXED PULLEY 1 WHEEL	Set of 4 pcs.	50	17,8	50	29,2	28	12	35,25	156°	Balls	Aluminium	X				100



FIXED PULLEYS 2 WHEELS

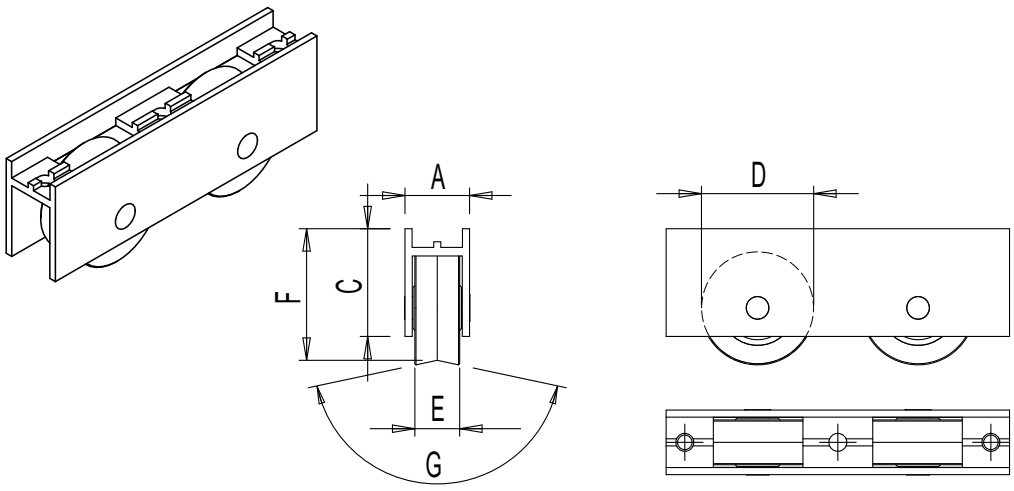
Functions
Fixed double-wheel pulleys for aluminium sliding doors and windows.

Online data sheet

Technical Features
The pulley can be removed without disassembling the sash.
It is fixed with 2 self-tapping screws
The wheels are mounted on ball bearings.

Materials
Pulley external support in extruded aluminium
Reinforced polyamide wheel on steel ball bearings

Capacities
Max. 200 kg with 2 pulleys



Item code	Description	Note	Load capacity (kg)	A [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [°]	Bearing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03041	DOUBLE WHEEL PULLEY	set of 4 pieces	100	17,3	28,9	28	12	35,3	156°	Balls	X				25



BRIO EVO HANDLE

Functions

Reversible recessed handle, with the possibility of manual mode operation (for door) or automatic operation (for window), to enable side locking of sliding sashes.

Online data sheet

Technical Features

The Brio Evo handle allows crossing and overlapping of the two sashes and it is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot and then pressing down the top part.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Evo handle is fitted with an antilifting system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The product is preset as standard for automatic operation (for window); for manual mode operation (for door) the pre-assembled spring on the product must be eliminated. The screw supplied must be screwed onto the nib carrier if the handle has to perform the burglar-proof function in manual mode operation.
The product is available in two different styles: rounded design and square design. Each style is available with 2-teeth or 1-tooth spring fixing, a solution to be chosen based on the type of sash profile used.

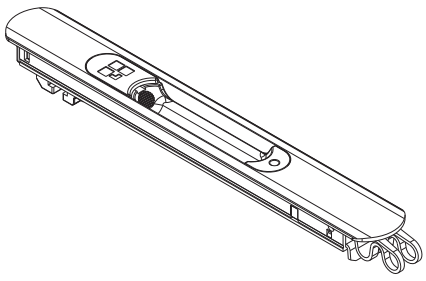
Materials

Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Polyamide recess handle
Stainless steel grub screw
Harmonic steel spring for automatic operation
Bottom fixing spring in C70 Geomet steel

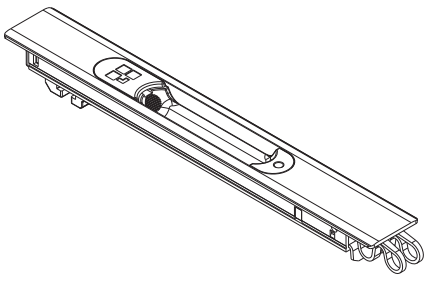
Parts

1 screw for burglar-proof function

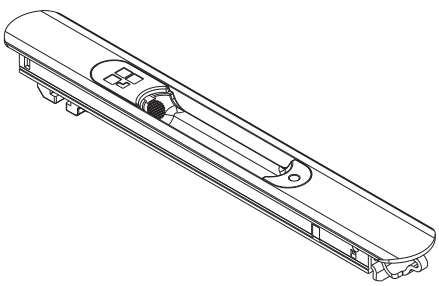
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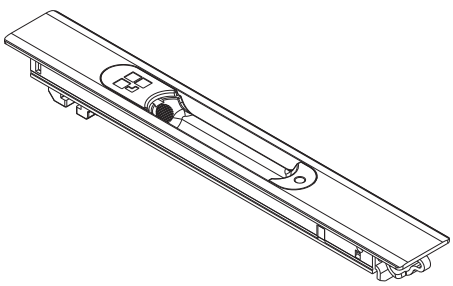
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0298201

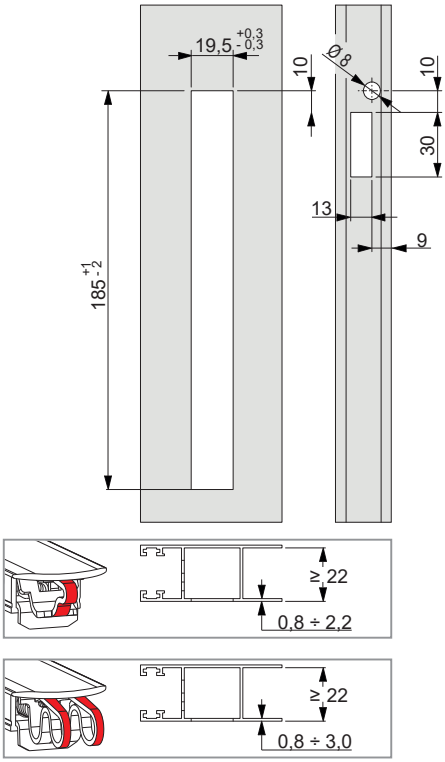


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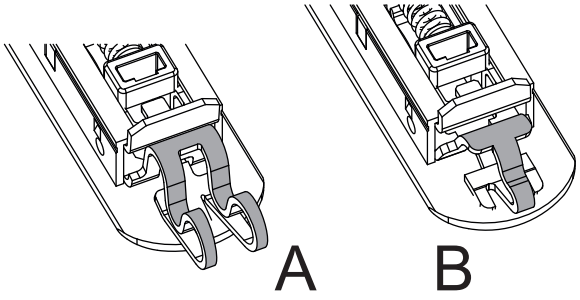


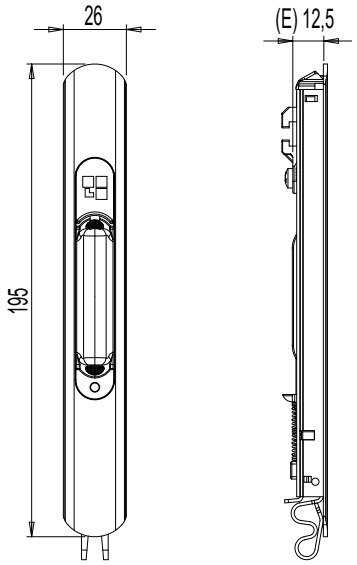
RECESSED HANDLES

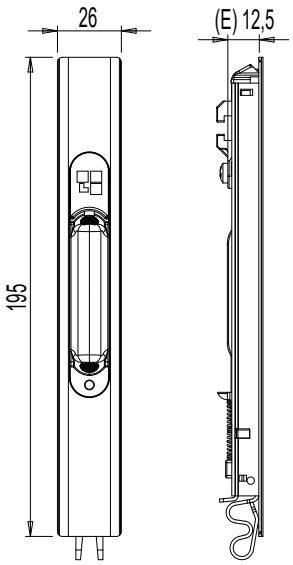
Machining on profile



A: 2-teeth spring - B: 1-tooth spring







Item code	Description	Design	Backset E [mm]	Fixing spring	Matching handles (Inside)	Matching handles (Outside)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0298201	BRIO EVO MD HANDLE	Rounded	12,5	1-tooth (B)	03043 - 03050 - 03064	02966N - 02967V - 02996	X		X		20
0299202	BRIO EVO HANDLE	Rounded	12,5	2 teeth (A)	03043 - 03050 - 03064	02966N - 02967V - 02996	X	X	X	X	20
06004	BRIO EVO HANDLE	Square	12,5	2 teeth (A)	03043 - 03050 - 03064	-	X		X	X	20
06006	BRIO EVO MD HANDLE	Square	12,5	1-tooth (B)	03043 - 03050 - 03064	-	X		X	X	20



BRIO EVO KEY HANDLE

Functions

Reversible recessed handle, with manual mode operation (for door) enabling side locking of sliding sashes.

Online data sheet

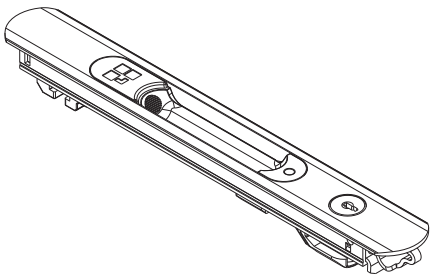
Technical Features

The Brio Evo Key handle allows crossing and overlapping of the two sashes and the end-user can lock the handle in the closed or open position by means of the special key supplied.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Evo Key handle is fitted with an antilifting system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The product is available in two different styles: rounded design and square design. Each style is available with 2-teeth or 1-tooth spring fixing, a solution to be chosen based on the type of sash profile used.
The cylinder is provided with the same keys, on request you can have different keys with 50 different combinations.

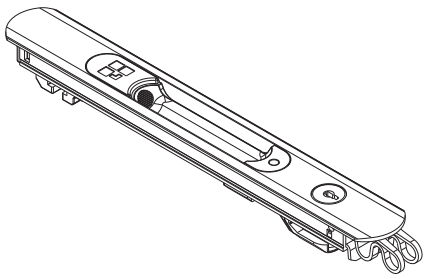
Materials

Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Polyamide recess handle
Zinc plated steel keys
Zamak key cylinder
Stainless steel grub screw
Harmonic steel spring for automatic operation
Bottom fixing spring in C70 Geomet steel

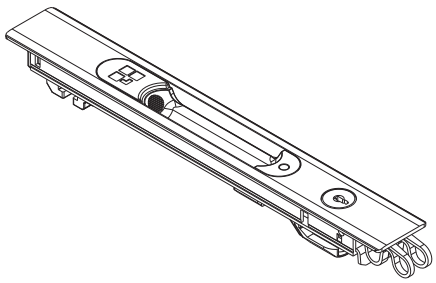
0288201



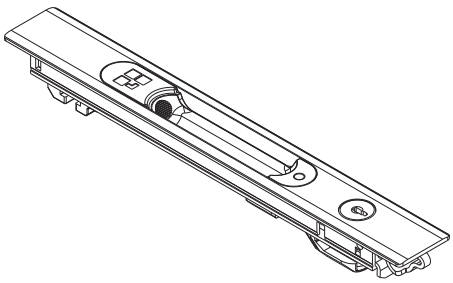
0289201



06005

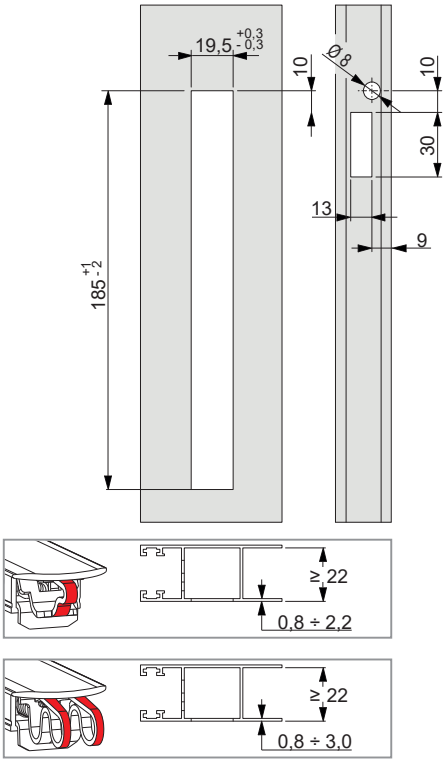


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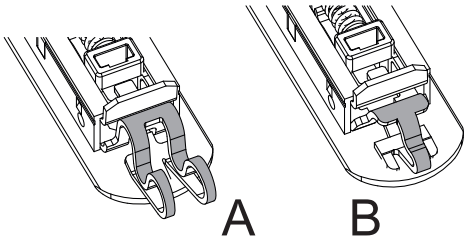


RECESSED HANDLES

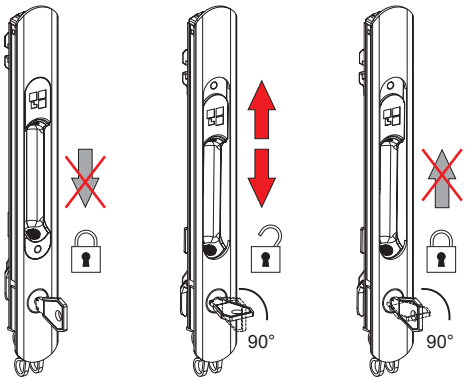
Machining on profile

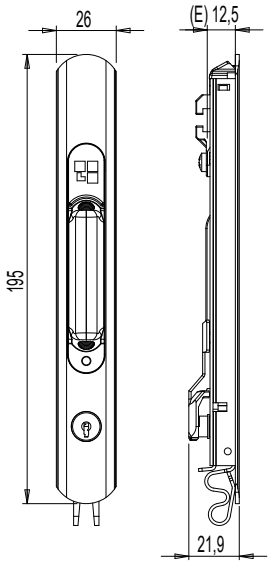


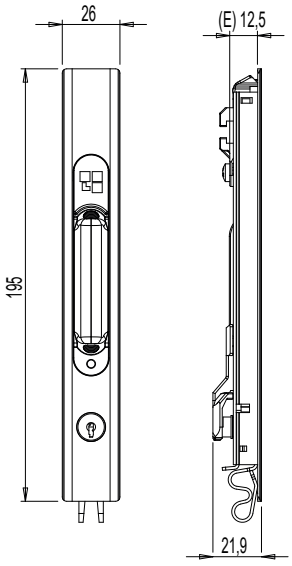
A: 2-teeth spring - B: 1-tooth spring



Block on closing and opening







Item code	Description	Design	Backset E [mm]	Fixing spring	Matching handles (Inside)	Matching handles (Outside)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0288201	BRIO EVO KEY MD HANDLE	Rounded	12,5	1-tooth (B)	03043 - 03050 - 03064	02966N	X		X		5
0289201	BRIO EVO KEY HANDLE	Rounded	12,5	2 teeth (A)	03043 - 03050 - 03064	02966N	X		X		5
06005	BRIO EVO KEY HANDLE	Square	12,5	2 teeth (A)	03043 - 03050 - 03064	02966N	X		X	X	5
06007	BRIO EVO KEY MD HANDLE	Square	12,5	1-tooth (B)	03043 - 03050 - 03064	02966N	X		X		5



BRIO KEY DRIVE HANDLE WITH BRIO EVO

Functions

Recessed Brio Evo handle with snap coupling, with external security key-lock handle for side closure of the sashes of an aluminium sliding door.

Online data sheet

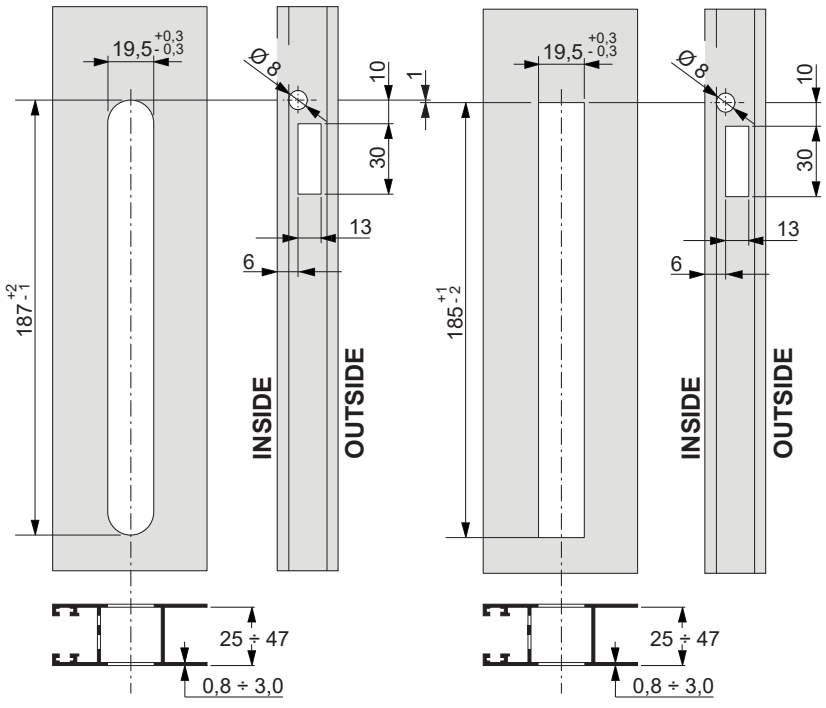
Technical Features

The handle's slider on the inside of the sash can be operated externally with a key to open or close the sash. From inside, the sash's lock can be made by directly using the slider.
The product features a different key (KD) lock, on request it is possible to have the product in the same key (KA) version.
Sash profile width: min. 25 mm max. 47 mm.
Fitting is quick, accurate and easy.
Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash stile.

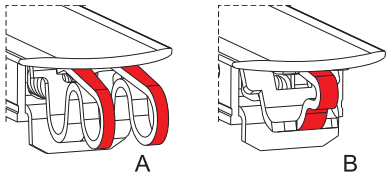
Materials

Recessed handle - inside:
- Extruded aluminium body
- Slider in white die-cast zinc plated Zamak
- Recess handle in nylon
- Stainless steel grub screw
- White zinc plated steel spring for automatic operation
- Fixing spring in harmonic steel

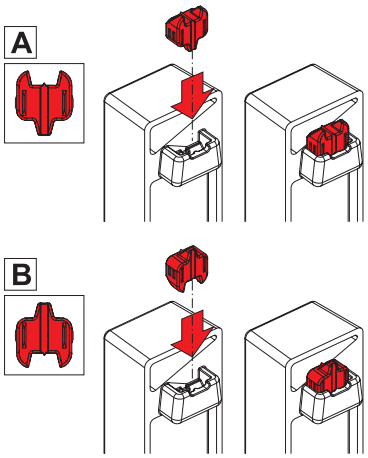
External handle with key - outside:
- Body in die-cast zamak
- Upper and lower fork in white zinc plated zamak
- Lower fixing HSCH screw M5x10 in stainless steel
- Nickel-plated brass cylinder



A: 2-teeth spring - B: 1-tooth spring

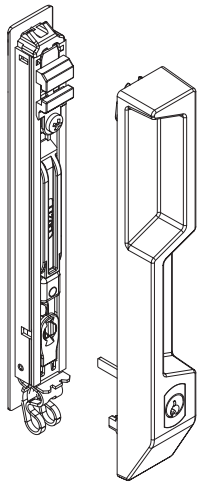


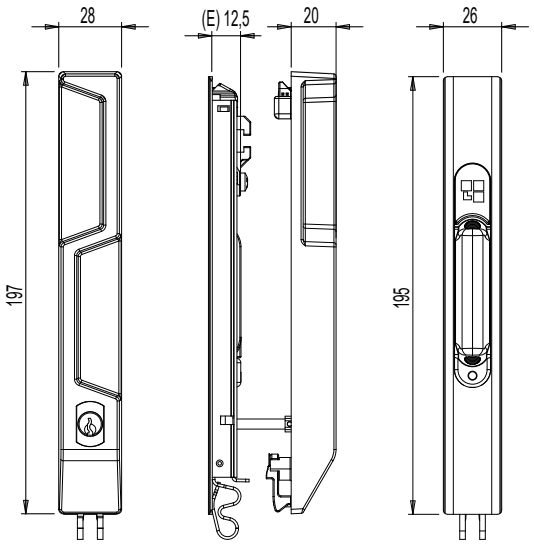
Handle setup - A: 2 teeth - B: 1 tooth



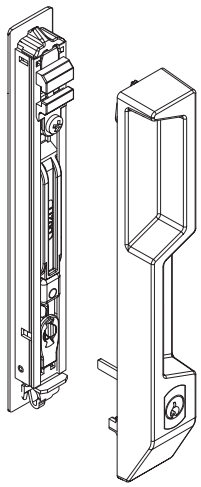
RECESSED HANDLES

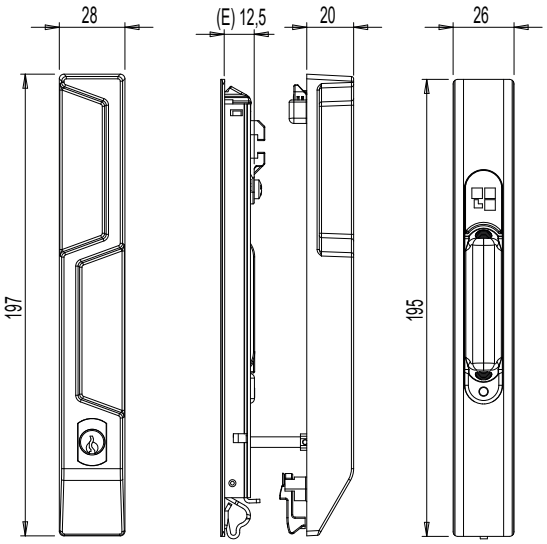
06037





06052





Item code	Description	Backset E [mm]	Design	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06037	SQUARE BRIO EVO EXTERNAL HANDLE WITH KEY	12,5	Square	2 teeth (A)	X		X		5
06052	SQUARE BRIO EVO MD EXTERNAL HANDLE WITH KEY	12,5	Square	1-tooth (B)	X		X		5



BRIO KEY RECESSED HANDLE WITH BRIO EVO

Functions

Recessed Brio Evo handle with snap coupling, with external security key-lock recess handle for side closure of the sashes of an aluminium sliding door.

Online data sheet

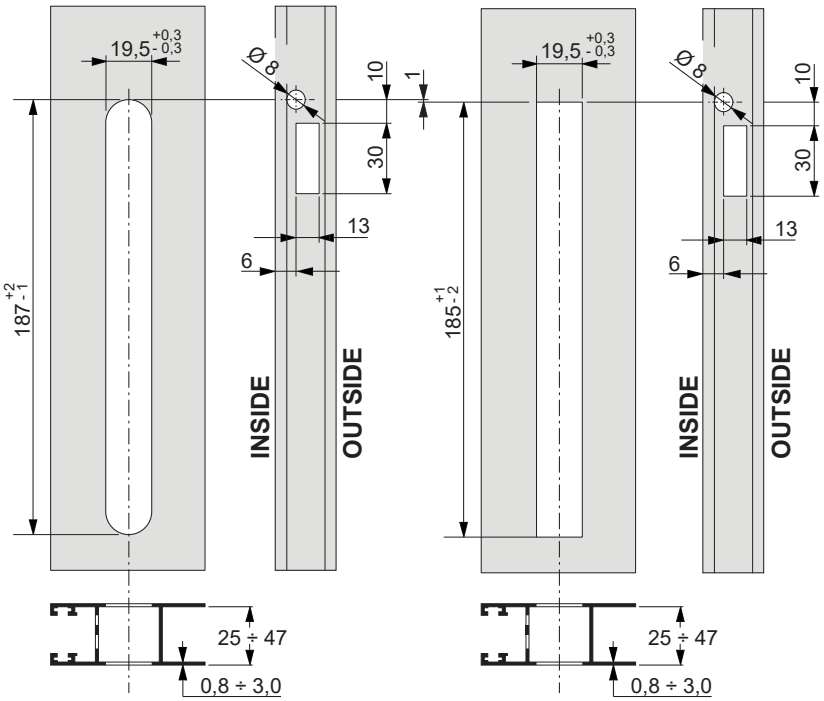
Technical Features

The handle's slider on the inside of the sash can be operated externally with a key to open or close the sash.
From inside, the sash's lock can be made by directly using the recessed handle slider.
The product features a same key (KA) lock.
Sash profile width: minimum 25 mm - maximum 55 mm.
Fitting is quick, accurate and easy.
Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash stile.

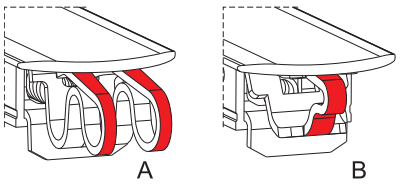
Materials

Recessed handle - inside:
- Extruded aluminium body
- Slider in white die-cast zinc plated Zamak
- Recess handle in nylon
- Stainless steel grub screw
- White zinc plated steel spring for automatic operation
- Fixing spring in harmonic steel

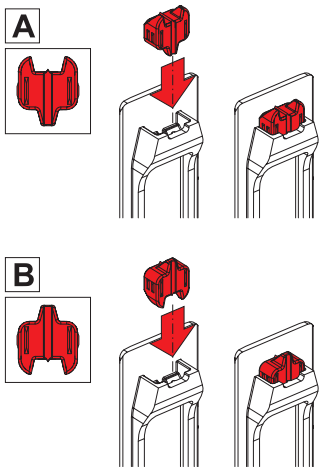
Recessed handle with key - outside:
- Body in die-cast zamak
- Upper and lower fork in white zinc plated zamak
- Lower fixing HSCH screw M5x8 in stainless steel
- Nickel-plated brass cylinder



A: 2-teeth spring - B: 1-tooth spring

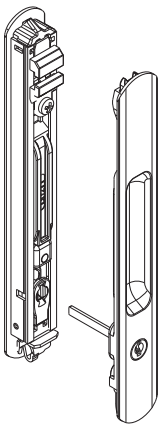


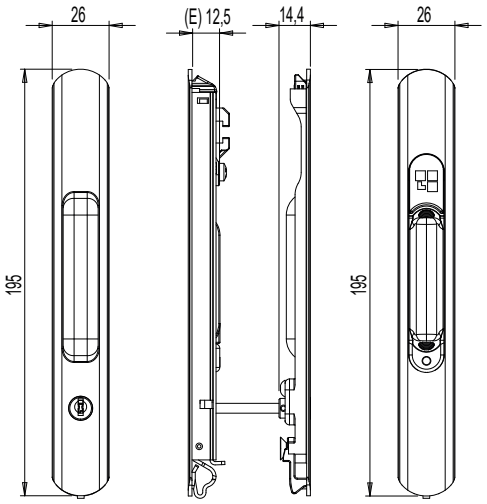
Handle setup - A: 2 teeth - B: 1 tooth



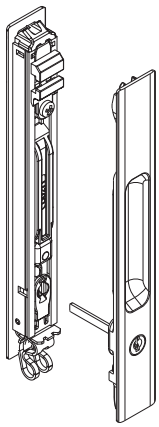
RECESSED HANDLES

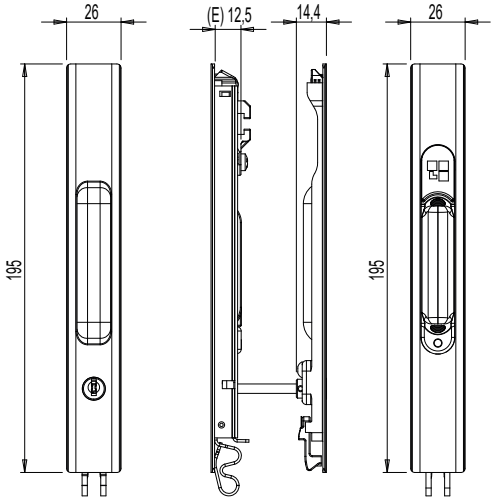
06019



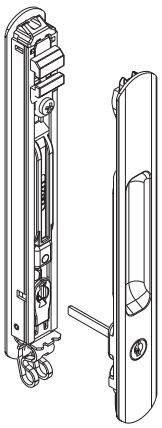


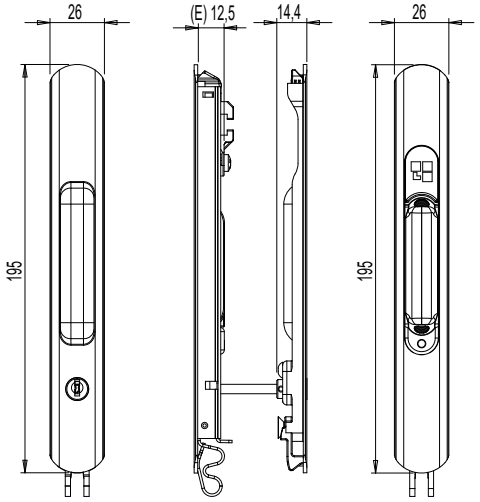
06039





06054





Item code	Description	Backset E [mm]	Design	Fixing spring	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06019	ROUNDED BRIO EVO MD EXTERNAL RECESSED HANDLE WITH KEY	12,5	Rounded	1-tooth (B)	X		X		5
06039	SQUARED BRIO EVO EXTERNAL RECESS HANDLE WITH KEY	12,5	Square	2 teeth (A)	X		X		5
06054	ROUNDED BRIO EVO EXTERNAL RECESS HANDLE WITH KEY	12,5	Rounded	2 teeth (A)	X		X		5



BRIO MINI EVO HANDLE

Functions

Reversible recessed handle, with automatic operation (for window) to enable side locking of sliding sashes.

Online data sheet

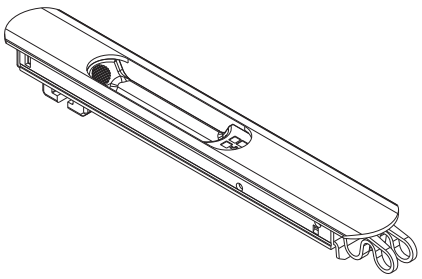
Technical Features

The Brio Mini Evo handle allows crossing and overlapping of the two sashes and is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot, then pressing down the top part.
After setting the optimal position of the nib (and thus the lock) it is secured by means of a grub screw on its front, while holding the polyamide recess handle down.
The product is available in two different styles: rounded design and square design. Each style is available with 2-teeth or 1-tooth spring fixing, a solution to be chosen based on the type of sash profile used.

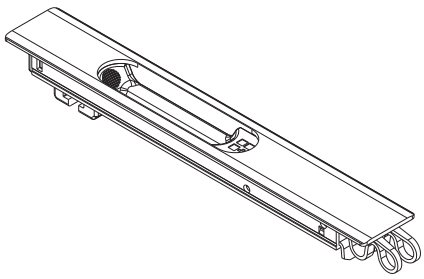
Materials

Body in extruded aluminium
Polyamide control slider
Polyamide recess handle
Upper fixing component and nib-holder in zinc plated zamak
Stainless steel grub screw
Harmonic steel spring for automatic operation
Bottom fixing spring in C70 Geomet steel

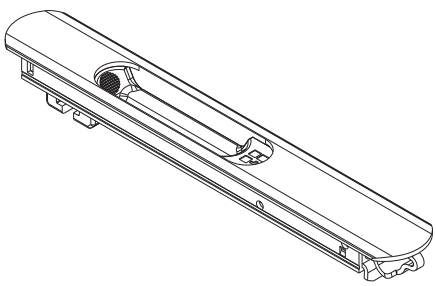
0298802



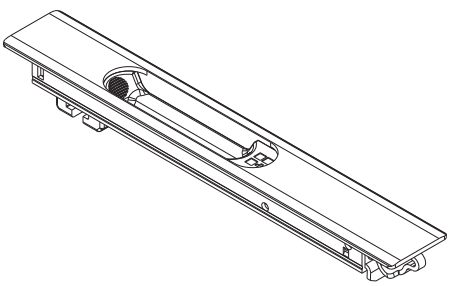
06038



0297801

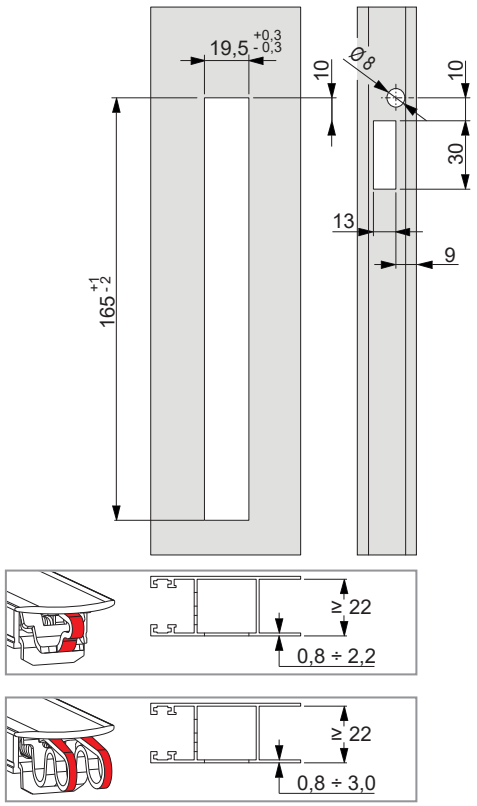


06018

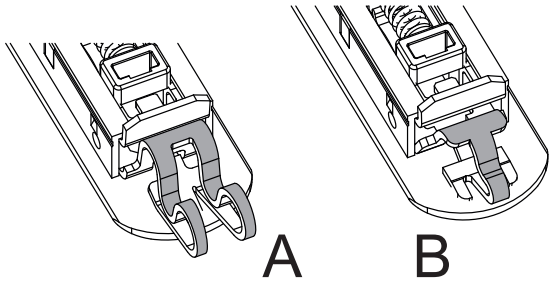


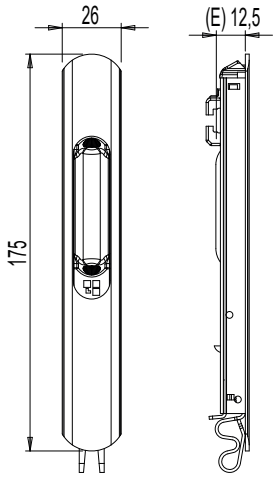
RECESSED HANDLES

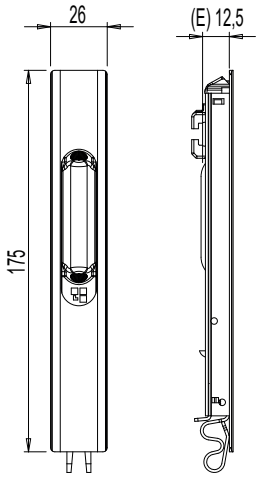
Machining on profile



A: 2-teeth spring - B: 1-tooth spring







Item code	Description	Design	Backset E [mm]	Fixing spring	Matching handles (Inside)	Matching handles (Outside)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0297802	BRIO MINI EVO MD HANDLE	Rounded	12,5	1-tooth (B)	03043 - 03050 - 03064	-	X		X		20
0298802	BRIO MINI EVO HANDLE	Rounded	12,5	2 teeth (A)	03043 - 03050 - 03064	-	X	X	X	X	20
0601801	BRIO MINI EVO MD HANDLE	Square	12,5	1-tooth (B)	03043 - 03050 - 03064	-	X		X		20
0603801	BRIO MINI EVO HANDLE	Square	12,5	2 teeth (A)	03043 - 03050 - 03064	-	X		X		20



BRIO EVO L HANDLE

Functions

Reversible recessed handle, with the possibility of manual mode operation (for door) or automatic operation (for window), to enable side locking of sliding sashes.

Online data sheet

Technical Features

The Brio Evo L handle allows crossing and overlapping of the two sashes and it is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot and then pressing down the top part.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
A distinctive feature of Brio Evo L is the nib carrier depth of 18.8 mm (compared to 12.5 in the standard Brio Evo version) which, in the case of particularly wide sash profiles, makes it possible to reduce the nib anchoring.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Evo handle is fitted with an antilifting system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The product is preset as standard for automatic operation (for window); for manual operation (for door) the pre-assembled spring on the product must be eliminated.
The screw supplied must be screwed onto the nib carrier if the handle has to perform the burglar-proof function in manual mode operation.
Brio Evo L is available in two different styles: rounded design and square design, with two-teeth fixing spring.

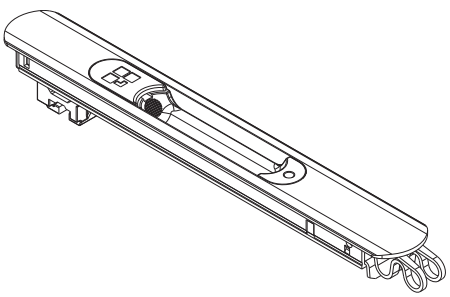
Materials

Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Polyamide recess handle
Stainless steel grub screw
Harmonic steel spring for automatic operation
Bottom fixing spring in C70 Geomet steel

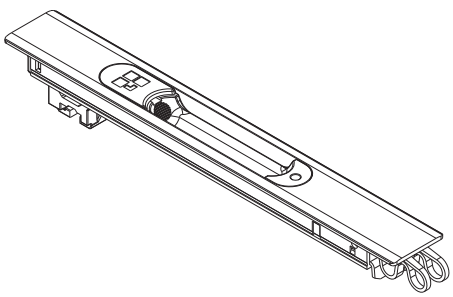
Parts

1 screw for burglar-proof function

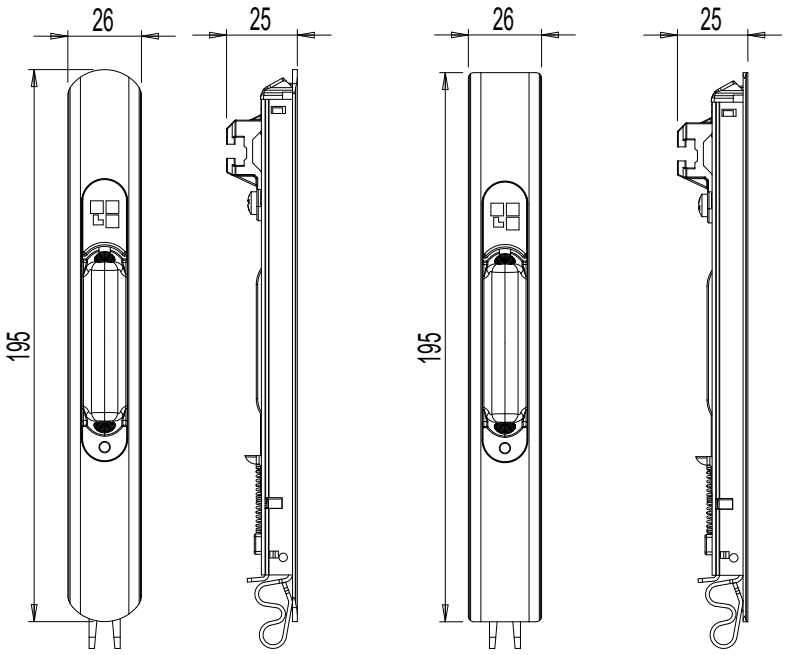
0289401

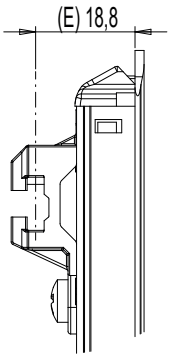


06008

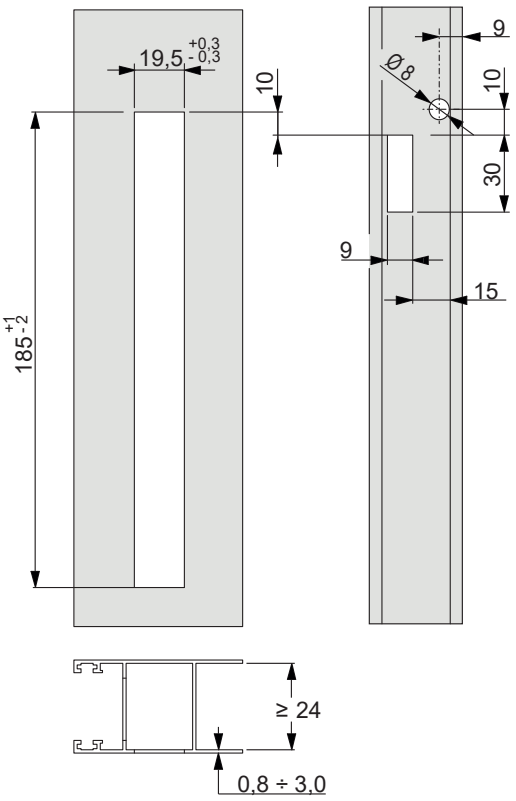


RECESSED HANDLES





Machining on profile



Item code	Description	Design	Backset E [mm]	Fixing spring	Matching handles (Inside)	Matching handles (Outside)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0289401	BRIO EVO L HANDLE	Rounded	18,8	2 teeth (A)	03043 - 03050 - 03064	02966N	X		X		20
06008	BRIO EVO L HANDLE	Square	18,8	2 teeth (A)	03043 - 03050 - 03064	02966N	X	X	X	X	20



BRIO EVO XL HANDLE

Functions

Reversible recessed handle, with the possibility of manual mode operation (for door) or automatic operation (for window), to enable side locking of sliding sashes.

Online data sheet

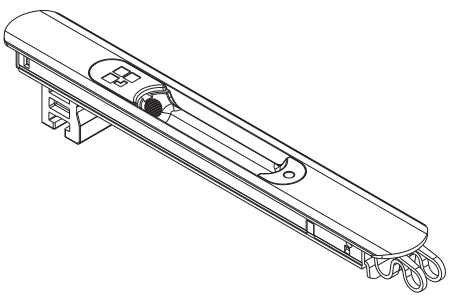
Technical Features

The Brio Evo XL handle allows crossing and overlapping of the two sashes and it is fixed to the profile quickly and precisely by inserting the bottom part of the handle in the slot and then pressing down the top part.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
A distinctive feature of Brio EVO XL is the nib carrier depth of 24.3 mm (compared to 12.5 in the standard Brio Evo version) which, in the case of particularly wide sash profiles, makes it possible to reduce the nib anchoring.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio Evo XL handle is fitted with an antilifting system to ensure that the casement can only be opened by moving the small polyamide recess handle on the interior.
The product is preset as standard for automatic operation (for window).
For manual operation (for door) the pre-assembled spring on the product must be eliminated.
BRIO XL is available in two different styles: rounded design and square design, with two-teeth fixing spring.

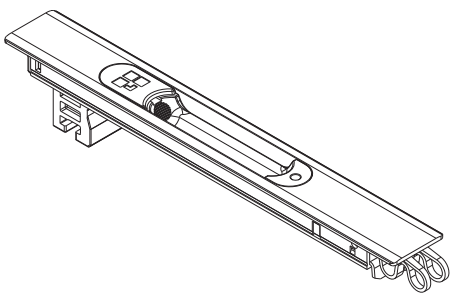
Materials

Body in extruded aluminium
Slider in white die-cast zinc plated Zamak
Polyamide recess handle
Stainless steel grub screw
Harmonic steel spring for automatic operation
Bottom fixing spring in C70 Geomet steel

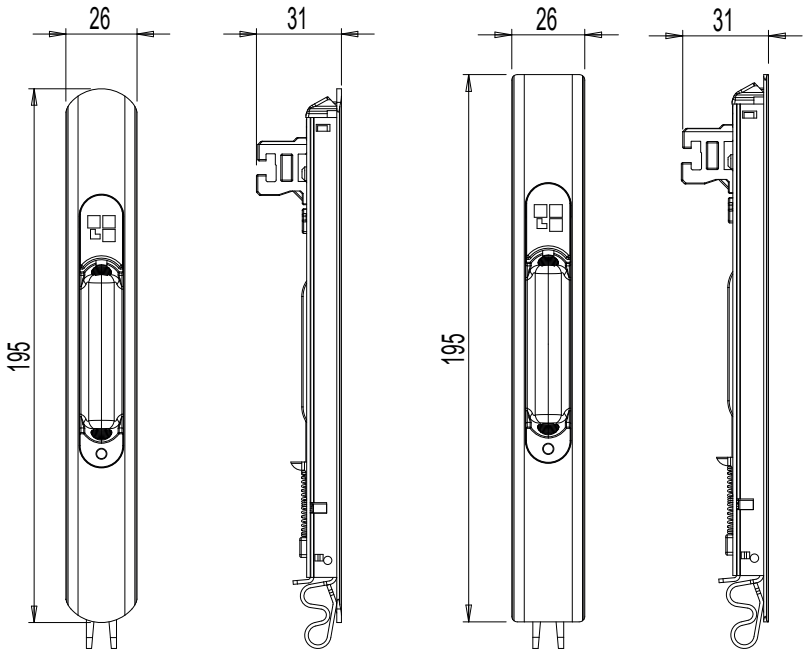
0087302



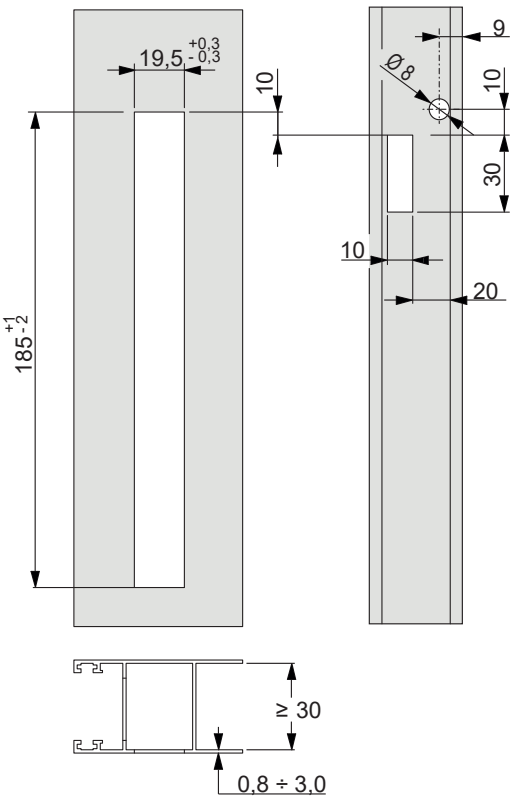
06009

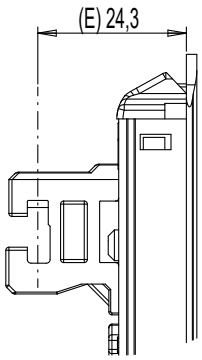


RECESSED HANDLES



Machining on profile





Item code	Description	Design	Backset E [mm]	Fixing spring	Matching handles (Inside)	Matching handles (Outside)	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0087302	BRIO EVO XL	Rounded	24,3	2 teeth (A)	03043 - 03050 - 03064	02966N	X		X		20
06009	BRIO EVO XL	Square	24,3	2 teeth (A)	03043 - 03050 - 03064	02966N	X		X		20



ROUNDED BRIO RAPID EVO HANDLE

Functions

Reversible recessed handle, with the possibility of manual operation (for doors) or automatic operation (for windows), to enable side locking of sliding sashes.

Online data sheet

Technical Features

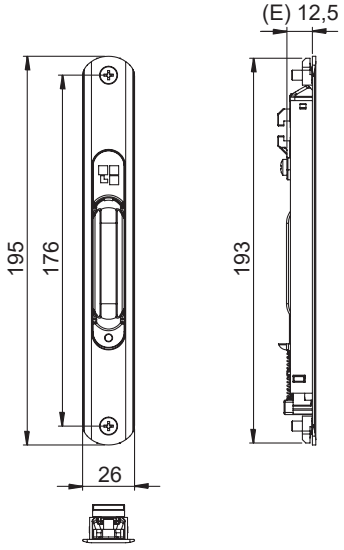
The Brio handle allows crossing and overlapping of the two sashes.
Prepared for the manual function, it is equipped with a spring that when installed enables the automatic function.
The Brio handle is secured by tightening the two screws which oppose two fixing plates.
After determining the optimum position of the nib (and therefore locking), it is secured with a grub screw, located under the covering cap.
The polyamide slider has two green and red surfaces that indicate respectively sash open and sash closed.
The Brio handle is equipped with an antilifting system that increases the security of the casement, preventing the nib from unhooking in the event the sash is lifted from its seat.
This system is active when the Brio handle is used on its own or when combined with the recess handle or with the external drive rod handle.
It is not active when the Brio is combined with the Brio external handle with key.

Materials

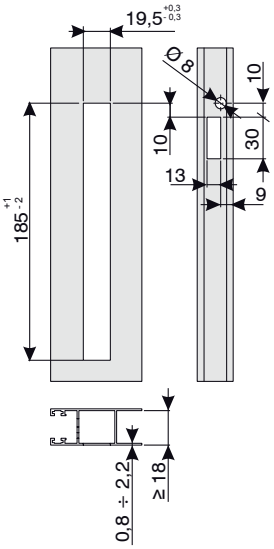
Body in extruded aluminium
Slider and fixing plates in die-cast zamak
Plug to enable automatic mode and recess handle in polyamide
Grub screws and screws in stainless steel
Steel spring for automatic operation

Parts

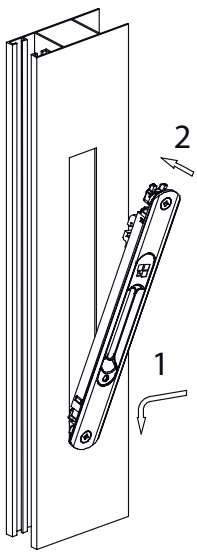
1 Spring for automatic function



Machining on profile



Assembly sequence



Item code	Description	Backset E [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0083101	ROUNDED BRIO RAPID EVO HANDLE	12,5	X		X		20



BLIND BRIO EVO HANDLE

Functions

The Brio Evo Cieca handle performs the simple function of driving a sliding rod in the case of 4-sash casements with opposing sashes.

Online data sheet

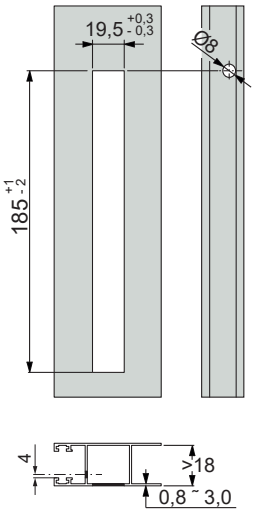
Technical Features

The product is fitted to the internal side of the casement with the function of driving a sliding sash.
This hardware is generally fitted to one of the 2 opposing sashes of a 4-sash sliding casement to obtain an aesthetic match with the main recessed handle that operates the window locking point.

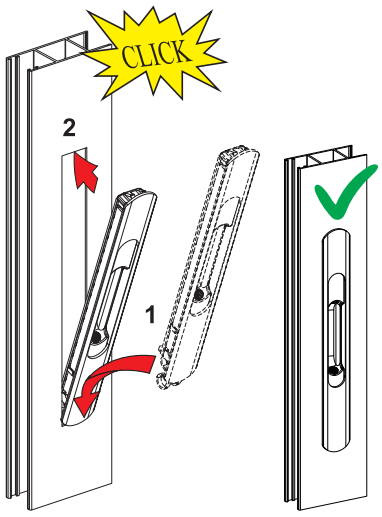
Materials

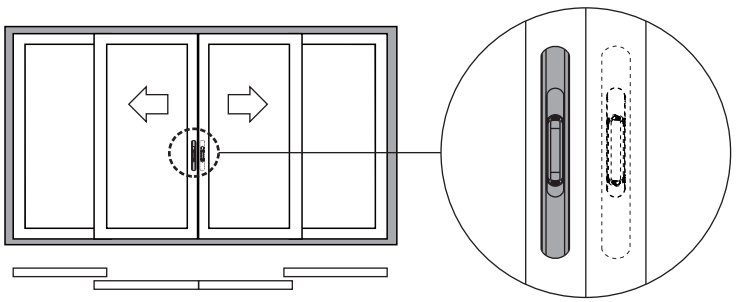
Body made of extruded aluminium
Recess handle in nylon
Lower fixing spring made of harmonic steel
Top fixing component made of galvanised zamak

Machining on profile



Assembly sequence





Item code	Description	Fixing type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0289501	BLIND BRIO EVO HANDLE	Snap-mounting	X	X	X	X	20



NADA HANDLE

Functions

Recessed reversible handle with automatic and manual locking for side closure and simultaneous overlap of the sashes of an aluminium sliding door/window.

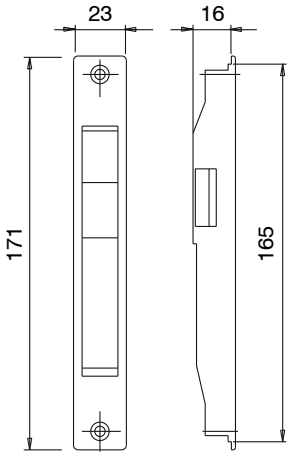
Online data sheet

Technical Features

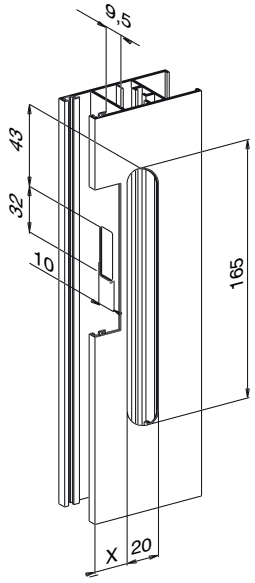
The handle is intended for automatic operation.
It may however be set for manual use by removing the spring at its rear.
The nib protrusion can be adjusted even with the handle mounted.
The nib is set with a grub screw located on the front of the slider.
The NADA handle features simple front fixing using pre-assembled brackets.

Materials

Black polyamide body.
Extruded aluminium control slider.
Zinc plated steel plates.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03000	NADA HANDLE	only finish 500		X	X		20



PRATIKA HANDLE

Functions

Reversible recessed handle with automatic and manual locking for side closure and simultaneous overlap of the sashes of an aluminium sliding door or window.

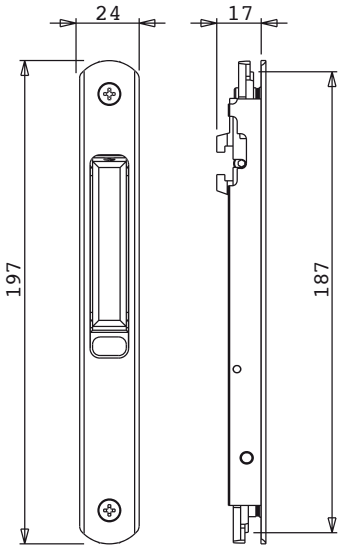
Online data sheet

Technical Features

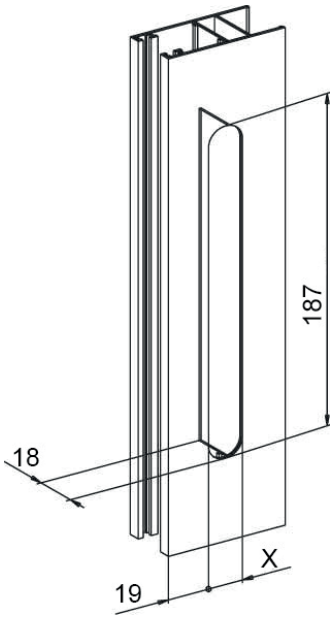
Locking can be manual or automatic.
Simply remove the surplus spring to select the type of operation desired.
The protrusion of the fixture kit nib can be adjusted precisely with the grub screw, which is accessible even with the handle already installed.
Once the optimal closure position has been determined, set it by tightening down the grub screw.
The slider has two coloured surfaces, green for handle open, red for handle closed.
The PRATIKA handle features simple front fixing using pre-assembled brackets.

Materials

Body in extruded aluminium
Slider, fixing plates and internal components in die-cast zamak.
Stainless steel grub screws and springs
Internal components in zinc plated Zamak



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03351	PRATIKA HANDLE	only painted finishes	X	X	X	X	20



PRATIKA DUO HANDLE

Functions

Recessed PRATIKA handle with manual locking, with external security key-lock for side closure and simultaneous overlap of the sashes of an aluminium sliding window, but more specifically for use on doors.

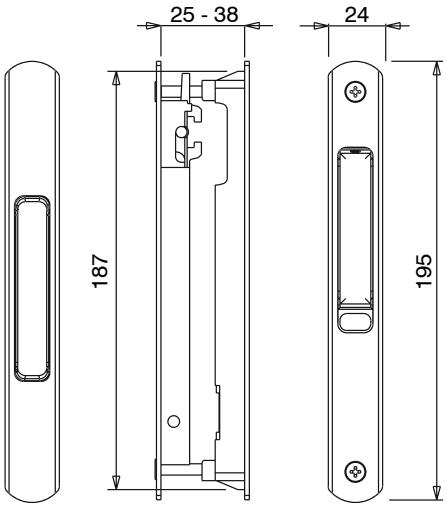
Online data sheet

Technical Features

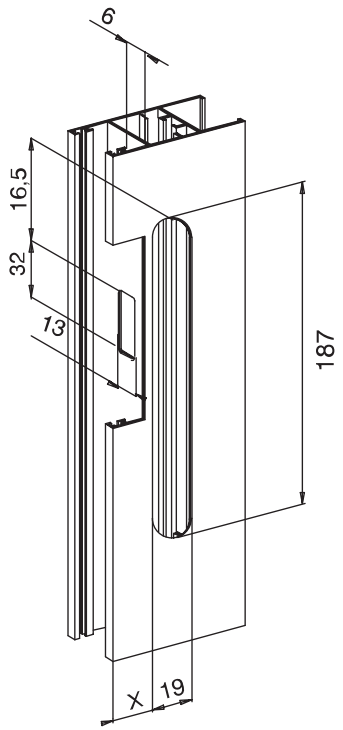
From inside, the sash's lock can be engaged or left unengaged with the slider. Externally, the recess functions solely to provide a better grip fro moving the sash.
The two housings are connected and secured with the supplied screws to ensure solid installation to the profile section.

Materials

Body in extruded aluminium.
Slider, fixing plate and internal components in die-cast zamak.
Stainless steel grub screws and spring.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03353	PRATIKA DUO HANDLE	only painted finishes	X	X	X	X	10



PRATIKA DUO KEY HANDLE

Functions

Recessed PRATIKA handle with manual locking, with external security key-lock for side closure and simultaneous overlap of the sashes of an aluminium sliding window, but more specifically for use on doors.

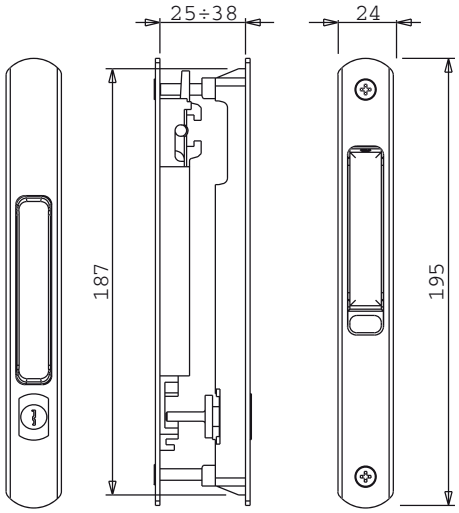
Online data sheet

Technical Features

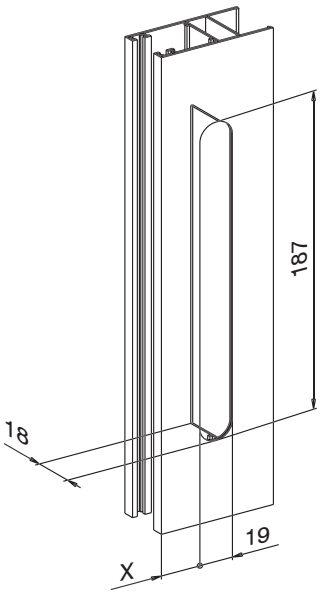
The handle's slider can be operated externally with a key to open or close the sash.
From inside, the sash's lock can be engaged or left unengaged with the slider.
The two housings are connected and secured with the supplied screws to ensure solid installation to the profile section.
The lock allows an excellent number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

Materials

Body in extruded aluminium.
Slider, fixing plates and internal components in die-cast zamak.
Stainless steel grub screws and spring.



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03352	PRATIKA DUO HANDLE + LOCK	only painted finishes	X	X	X	X	10



BRIO PULL HANDLES

Functions

The external Brio pull handle, combined with a Brio or Brio MD recessed handle, enables the end user to move the wing of a sliding door with ease.

Online data sheet

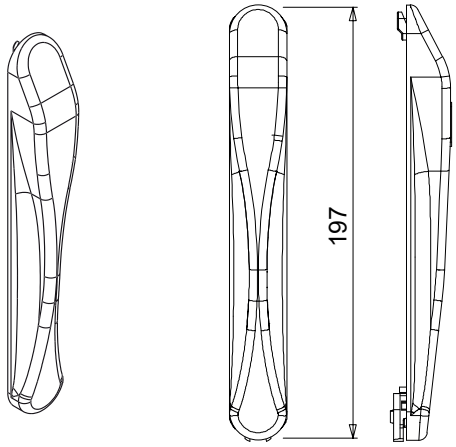
Technical Features

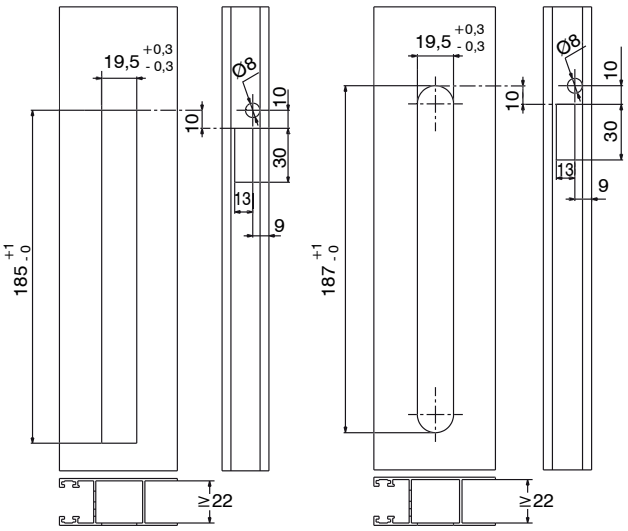
The special ergonomic shape of the Brio external pull handle allows easy handling of a sliding door from the exterior side.
This article must always be mounted in combination with a Brio or Brio MD recessed handle.
Assembly is quick and precise. Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash upright.

Materials

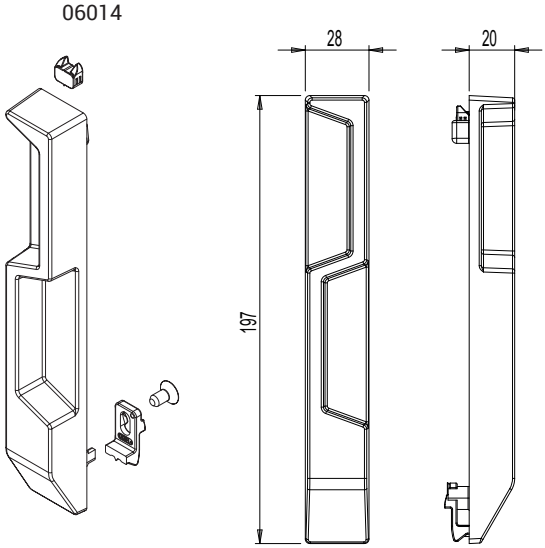
Body in die-cast zamak
Upper and lower fork in white zinc plated zamak
Upper and lower TSE M5x14 fixing screws in stainless steel

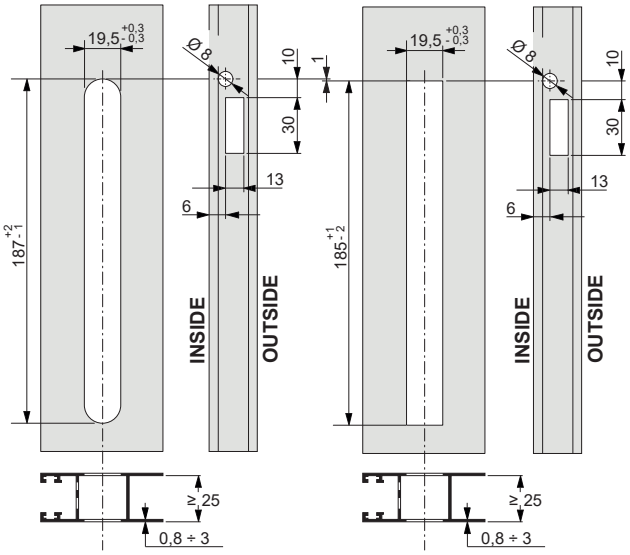
02966N





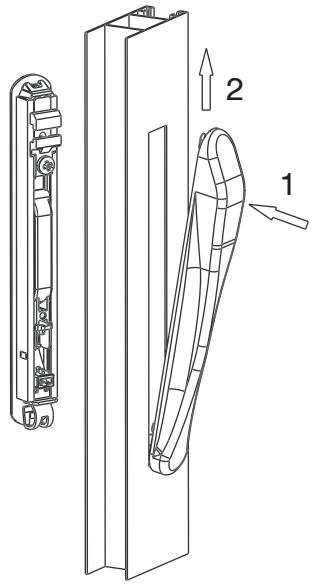
06014



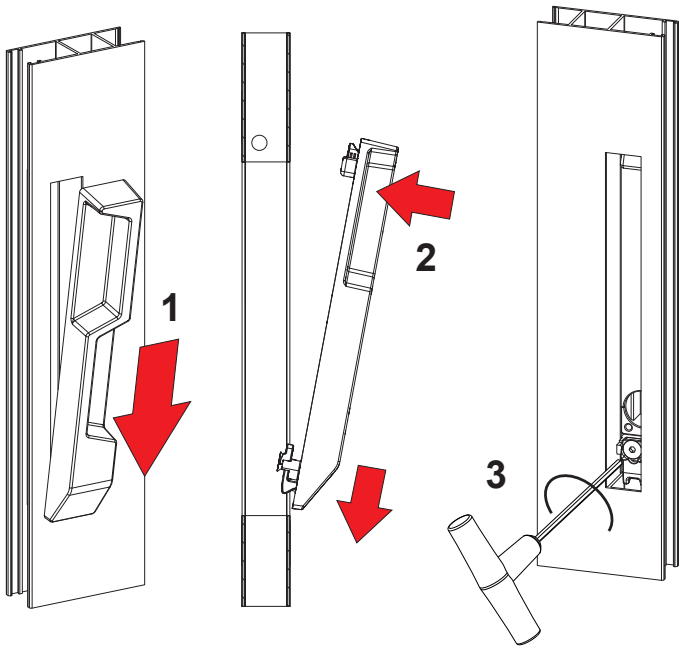


EXTERNAL PULL HANDLES

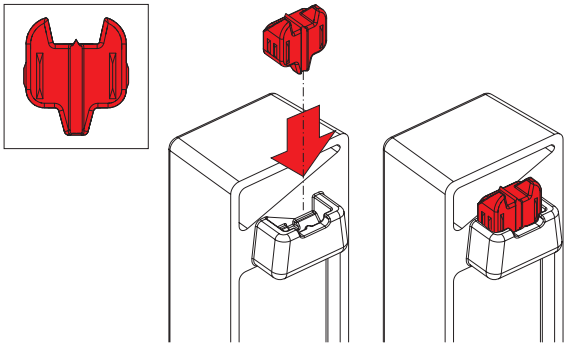
Assembly sequence art. 02966N



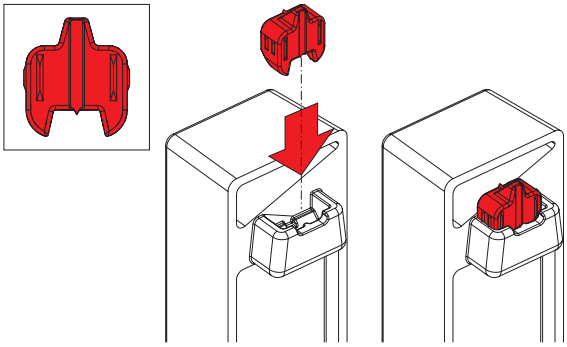
Assembly sequence art. 06014



Art. 06014: 2-teeth coupling



Art. 06014: 1-tooth coupling



Item code	Description	Design	Matching handles (Inside)	Matching handles	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02966N	BRIO EXTERNAL PULL HANDLE	Rounded	03043 - 03064	0288201 - 0289201 - 0298201 - 0299202	X		X		5
06014	SQUARE EXTERNAL HANDLE	Square	03050	06004 - 06005 - 06006 - 06008 - 06009	X		X		5



BRIO KEY DRIVE ROD

Functions

The external Brio Key pull handle, combined with a Brio Evo or Brio Evo MD recessed handle, enables the end user to open and close a sliding door safely and easily.

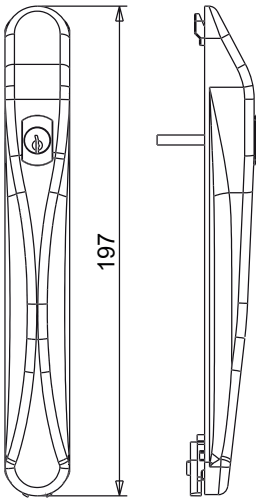
Online data sheet

Technical Features

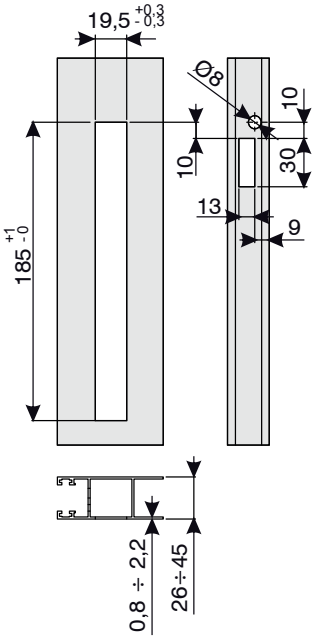
Available in two versions with European and Special cylinder (Giesse).
The special ergonomic shape of the Brio Key external pull handle allows easy handling of a sliding door.
On the external side, the key is used to activate the cylinder that opens and closes the sash. From inside, the sash's lock can be engaged or left unengaged by directly using the polyamide recess handle.
It should always be applied in combination with a Brio Evo or Brio Evo MD recessed handle, suitably prepared.
Assembly is quick and precise. Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash upright.
The lock allows a high number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

Materials

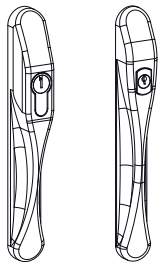
Body in die-cast zamak
Upper and lower fork and key bit in white zinc plated Zamak
Upper and lower TSE M5x14 fixing screws in stainless steel
Fibreglass reinforced polyamide shim
Fibreglass reinforced polyamide release element



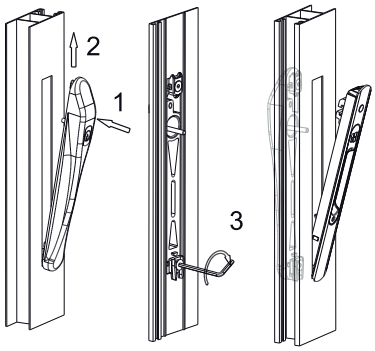
Machining on profile



Version with European cylinder and Special cylinder (Giesse)



Assembly sequence



Item code	Description	Cylinder	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02967V	BRIO KEY EXTERNAL PULL HANDLE	Special	X		X		5
02996	BRIO KEY EXTERNAL PULL HANDLE	European	X		X		5



BRIO EVO RECESSED HANDLES

Functions

The external Brio pull handle, combined with a Brio EVO and Brio Evo MD recessed handle, enables the end user to move the sash of a sliding door easily and effortlessly.

Online data sheet

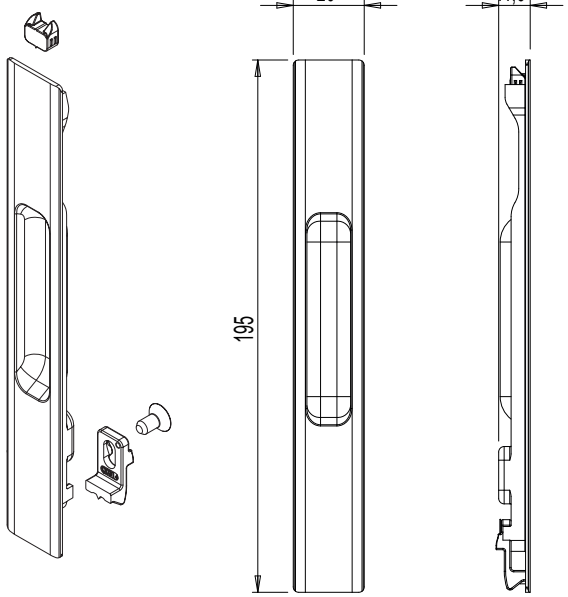
Technical Features

The Brio external flush-mounted pull handle allows easy handling of a sliding door from the exterior side.
The use of this product enables the overlap of the main and secondary sash.
It should always be combined with a Brio EVO and Brio EVO MD recessed handle.
Sash profile width: min. 25 mm, max with no limits.
Fitting is quick, accurate and easy.
Two slots must be made (187x19.5mm) in perfect alignment and of the same size on the sash stile.

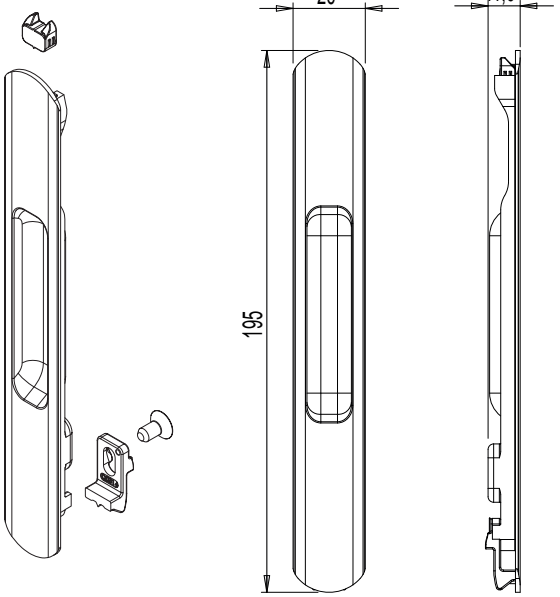
Materials

Body in die-cast zamak
Upper and lower fork in white zinc plated zamak
Lower fixing HSCH screw M5x8 in stainless steel

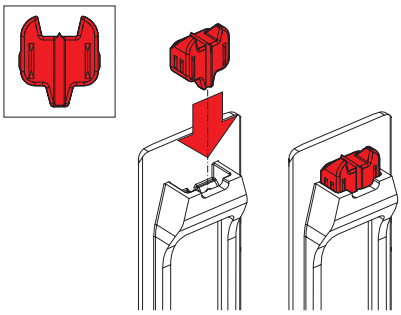
06010



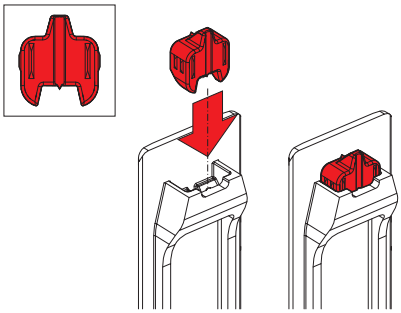
06011

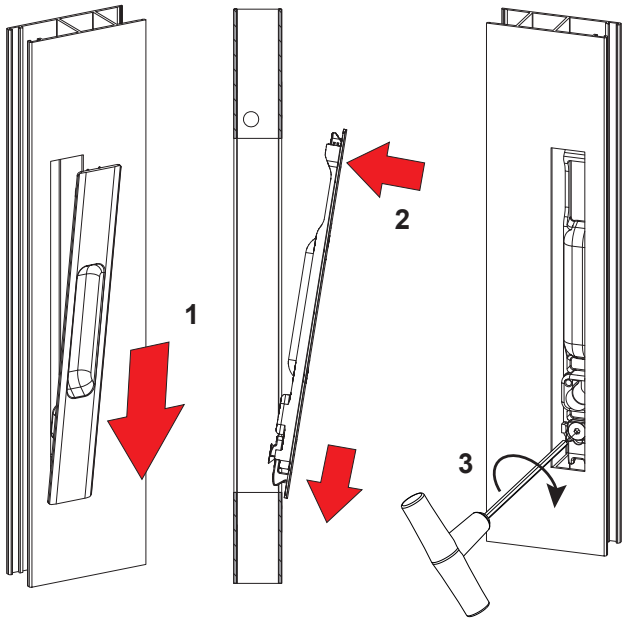


2-teeth coupling

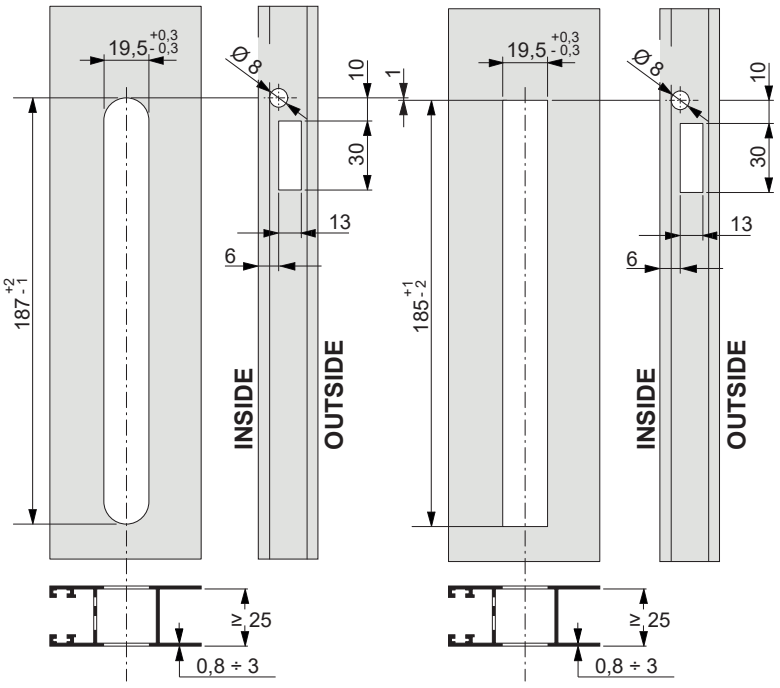


1-tooth coupling





Machining on profile



Item code	Description	Design	Matching handles (Inside)	Matching handles	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06010	SQUARE EXTERNAL RECESS PULL HANDLE	Square	03050	06004 - 06008 - 06009 - 06006 - 06005	X		X		5
06011	ROUNDED EXTERNAL RECESS PULL HANDLE	Rounded	03064 - 03034	0299202 - 0298201 - 0289401 - 0298201 - 0087302	X		X		5



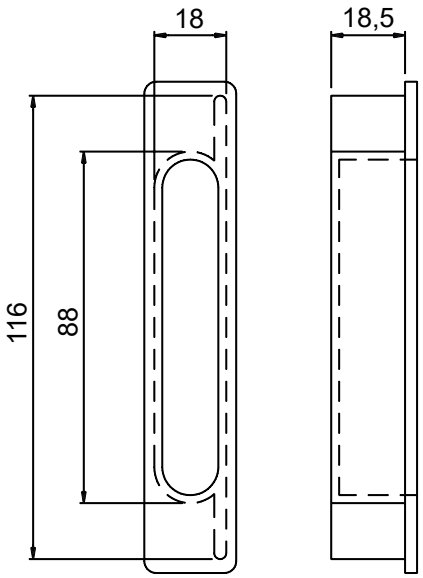
RECESSED HANDLES

Functions
Recessed carry handle to facilitate moving the sashes of a sliding door or window from the outside.

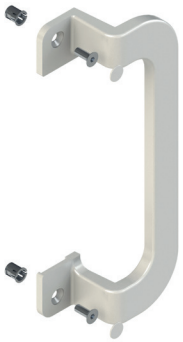
Online data sheet

Technical Features
It is applied with specific machining and fixed with 2 self-tapping screws that are screwed into the handle reinforcement wall.

Materials
Black polyamide



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02341	RECESSED CARRY HANDLE	black nylon	X				100



BRIO EVO SIDE DRIVE HANDLE

Functions

It is applied in combination with another Brio Evo recessed handle.
Recommended for use on heavy aluminium sliding doors/windows to facilitate handling of the sashes.

Online data sheet

Technical Features

The Brio Evo side drive handle has an ergonomic grip to facilitate handling of heavy doors and windows.
Available in two versions with fixing in axis with the handle and a version with offset fixing, especially useful in the case of particularly heavy sashes, to avoid bending the wall.
This article is designed to give unrestricted access to the recess of the recessed handle.
Assembly is particularly fast, ensuring maximum durability.

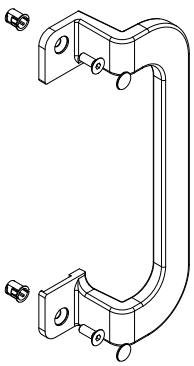
Materials

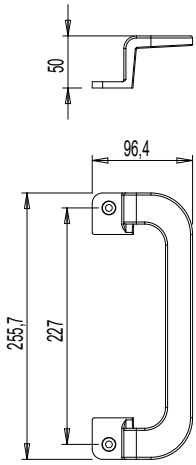
Handle made of die-cast aluminium
HSCH screws in stainless steel
Rapid inserts in zinc plated steel
Screw cover caps in polyamide

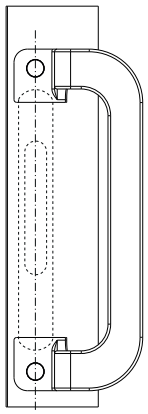
Parts

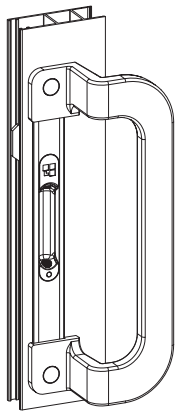
2 TSE 6x16 screws
2 Rapid Inserts
2 Screw cover plugs

03043

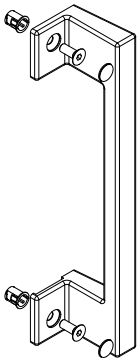


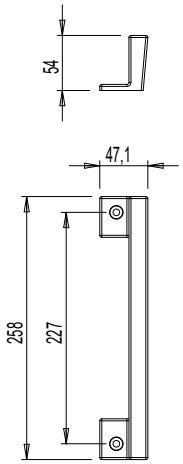


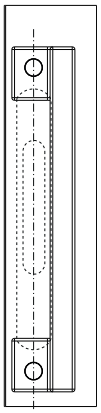


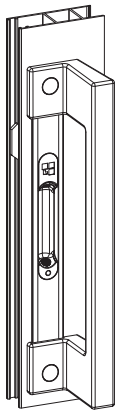


03050

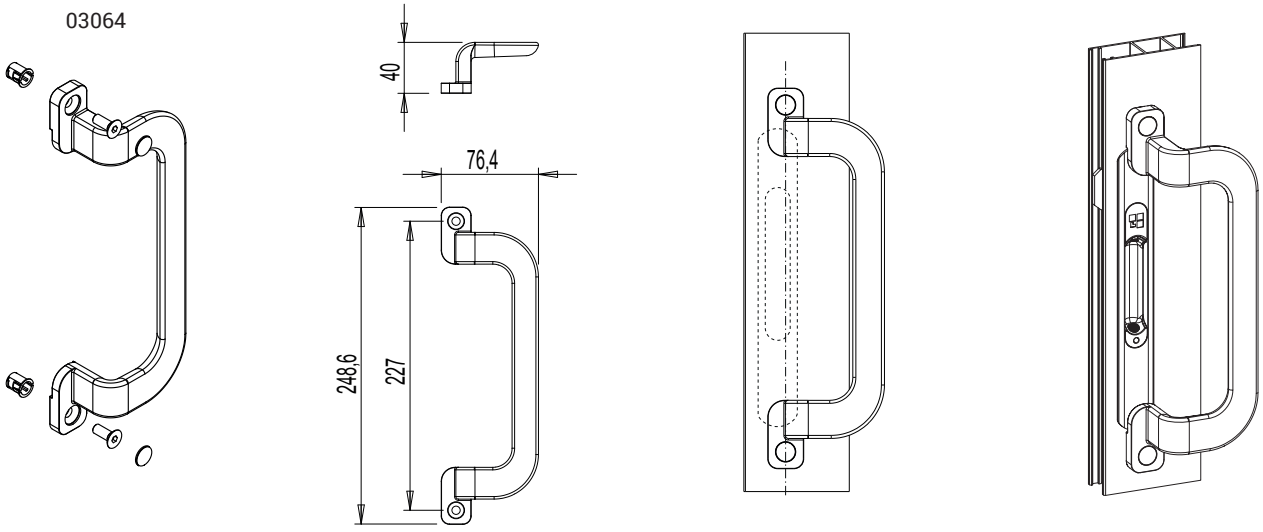


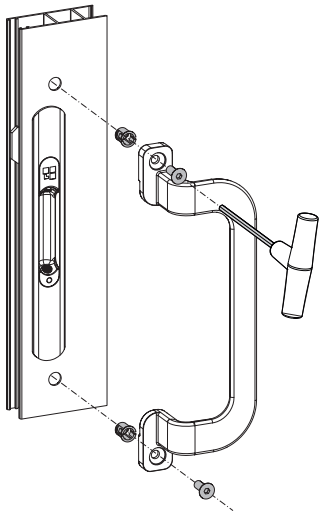






INTERNAL PULL HANDLES





Item code	Description	Fixing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03043	ROUNDED INTERNAL DRIVE HANDLE	centred	X		X	X	5
03050	SQUARE INTERNAL DRIVE HANDLE	centred	X		X	X	5
03064	SMALL ROUNDED INTERNAL DRIVE HANDLE	offset	X		X	X	5



PRATIKA SIDE PULL HANDLE

Functions

The product is applied in combination with another Pratika recessed handle.
Recommended for use on heavy aluminium sliding doors/windows to facilitate handling of the sashes.

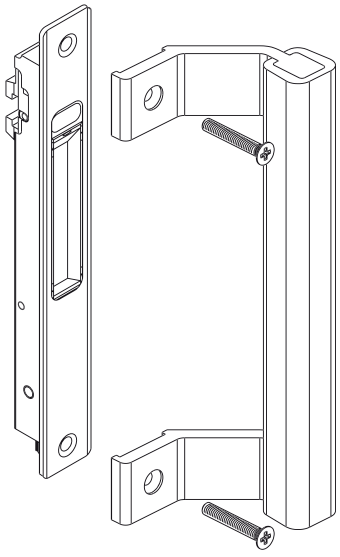
Online data sheet

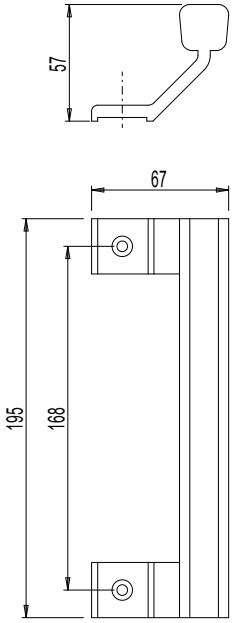
Technical Features

The Pratika side pull handle has an ergonomic grip to facilitate handling of heavy doors and windows.
This article is designed to give unrestricted access to the recess of the recessed handle.
Assembly is particularly fast, ensuring maximum durability.
Fixing is done with the same fixing plates as for the Pratika handle.

Materials

Body in extruded aluminium.
Nickel-plated brass HSCH screws





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03055	SIDE PULL HANDLE	only painted finishes standard RAL	X	X	X		5



CITY CREMONES

Functions

Complete system of cremones for closing and operating the internal sash of an aluminium sliding door or window.

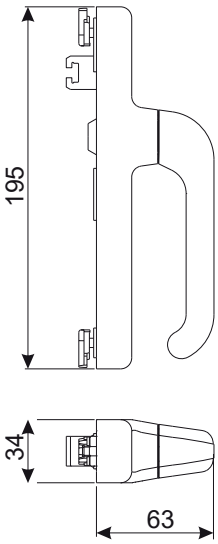
Online data sheet

Technical Features

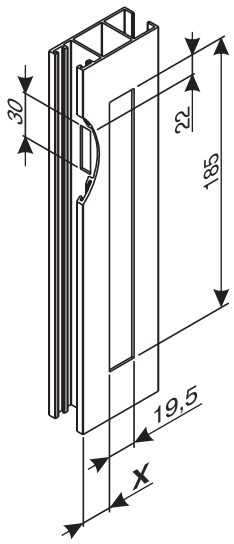
The City cremone allows an automatic or manual fastening mechanism depending on the needs of the window maker and end user.
The automatic fastening mechanism is typically used on sliding windows: when the sash is set ajar it closes, the pull handle can in any case remain locked in the open position.
The manual fastening mechanism is instead typically used on sliding doors: when the leaf is set ajar it does not close until the pull handle is turned into the vertical position.
With the manual function, the City Cremone is compatible with the Brio Top Security Multilock.
The CITY cremone has a Red/Green visual indicator to signal the Closed/Open status of the Sash even at a distance.
To create the fastening, the article requires a Brio Nib (sash side) and a counterplate (frame side).

Materials

Case and handle in die-cast aluminium
Slider and fixing plates in white zinc plated die-cast zamak
Mounting grubscrew and spring in stainless steel
Positioner in Hostaform
Pins and screws in stainless steel



The X dimension depends on the series used



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03018N	CITY CREMONE		X		X		5
03360V	CITY CREMONE		X		X		10



CITY KEY CREMONE

Functions

Reversible cremone handle, with key lockable pull handle, for drawing the internal sash of a sliding aluminium door or window.

Online data sheet

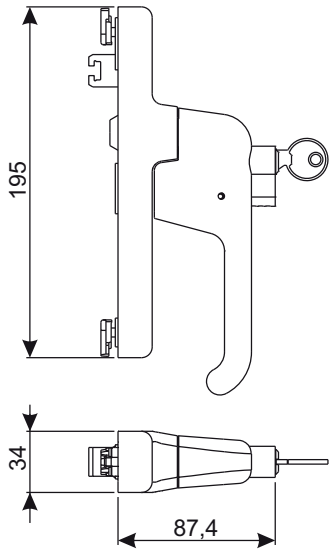
Technical Features

The City Key cremone allows an automatic or manual fastening mechanism depending on the needs of the window maker and end user.
The automatic fastening mechanism is typically used on sliding windows: when the sash is set ajar it closes, the pull handle can in any case remain locked in the open position.
The manual fastening mechanism is instead typically used on sliding doors: when the leaf is set ajar it does not close until the pull handle is turned into the vertical position.
With the manual function, the City Cremone is compatible with the Brio Top Security Multilock.
The CITY cremone has a Red/Green visual indicator to signal the Closed/Open status of the Sash even at a distance.
To create the fastening, the article requires a Brio nib (sash side) and a counterplate (frame side).
The key cylinder on the pull handle allows the mechanism to be locked in the close position.
City Key cremones with a small nib include a "Different keys" type of cylinder (with a maximum of 50 different codes). On request it is possible to have the version with "Same keys" or "Master key".
The cylinder used has standard European dimensions. When necessary you can replace the cylinder with a commercial item available on the market.
City Key cremones include a "Same keys" type of cylinder. On request it is possible to have the version with "Different keys" (with a maximum of 50 different codes).

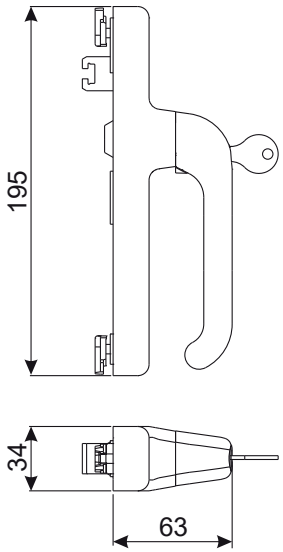
Materials

Case and handle in die-cast aluminium
Slider and fixing plates in white zinc plated die-cast zamak
Mounting grubscrew and spring in stainless steel
Positioner in Hostaform
Pins and screws in stainless steel

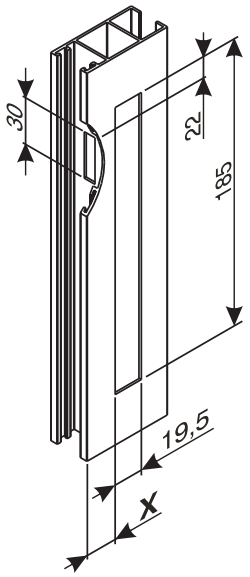
Art. 03361V



Art. 07057N

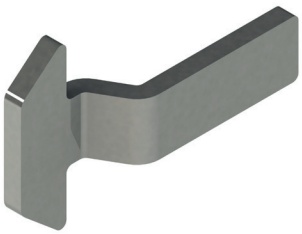


The X dimension depends on the series used



SLIDING SYSTEM CREMONES

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03361V	CITY KEY CREMONE W/ SMALL NIB		X		X		5
07057N	CITY KEY CREMONE				X		5



BRIO EVO BIG NIBS

Functions

Brio Evo Big nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.
The Brio Evo Big nibs can be used in combination with the entire Brio Evo range.

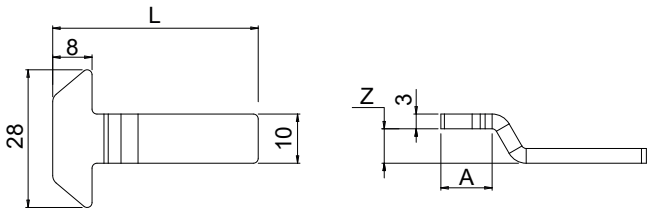
Online data sheet

Technical Features

Brio Evo Big nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counter-plate, and guarantee improved sealing and more range of adjustment of the lock point elements.
Brio Evo Big nibs can be combined with a great variety of Giesse counterplates (see relative section) depending on the series used.

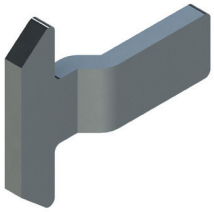
Materials

Stainless Steel



Item code	Description	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0259701	BRIO EVO BIG NIB	42	11	7	X				100
0333001	BRIO EVO BIG NIB	33	9,5	1	X				100
0333101	BRIO EVO BIG NIB	38	14,8	2,5	X				100
0333301	BRIO EVO BIG NIB	42	10	5	X				100
0453001	BRIO EVO BIG NIB	37	14,5	6	X				100
0457701	BRIO EVO BIG NIB	38,3	0	0	X				100
0457901	BRIO EVO BIG NIB	45,3	0	0	X				100
0458001	BRIO EVO BIG NIB	51	0	0	X				100
0458101	BRIO EVO BIG NIB	29	9,5	1,5	X				100
0458201	BRIO EVO BIG NIB	37,5	9,5	1,5	X				100
0458301	BRIO EVO BIG NIB	44,5	12,4	1,5	X				100
0458401	BRIO EVO BIG NIB	28,5	10,4	3,5	X				100
0458601	BRIO EVO BIG NIB	31,5	9,5	3,5	X				100
0458801	BRIO EVO BIG NIB	42	12,4	4	X				100
0458901	BRIO EVO BIG NIB	32	9	5	X				100
0459001	BRIO EVO BIG NIB	34,5	11,5	5	X				100
0459101	BRIO EVO BIG NIB	40,5	11,5	5	X				100
0459201	BRIO EVO BIG NIB	49,6	17	5	X				100
0459401	BRIO EVO BIG NIB	43	12,5	5,5	X				100
0469501	BRIO EVO BIG NIB	41	10,4	5,5	X				100
04865	BRIO EVO BIG NIB	33	9,3	1,5	X				100
0499002	BRIO EVO BIG NIB	36,3	0	0	X				100
0499101	BRIO EVO BIG NIB	44	14	3,5	X				100
0499202	BRIO EVO BIG NIB	38	14	3,5	X				100
0499902	BRIO EVO BIG NIB	46,5	14,6	2	X				100
0500401	BRIO EVO BIG NIB	42	14,6	2,5	X				100

BRIO SMALL NIBS



Functions

Brio Small nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.
Brio Small nibs can be used in combination with Brio mini Evo, Brio Rapid, City handles including Key versions.

Online data sheet

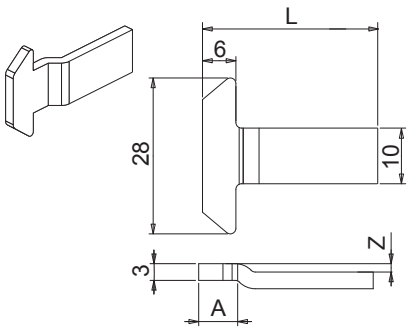
Technical Features

Brio Small nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counter-plate, and guarantee improved sealing and more range of adjustment of the lock point elements.
Brio Small nibs can be combined with a great variety of Giesse counterplates (see relative section) depending on the series used.

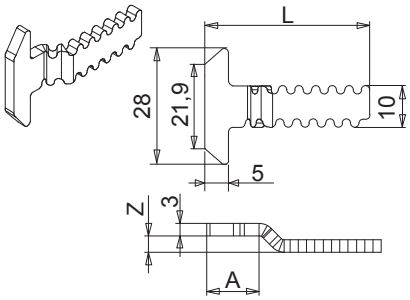
Materials

Stainless Steel

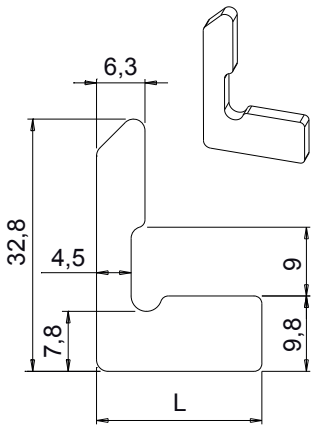
Type A



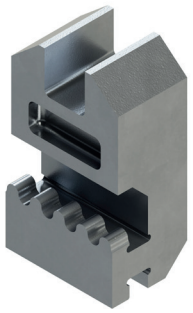
Type B



Type C



Item code	Description	Drawing	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02691	BRIO SMALL NIB	B	31	9	6	X				100
07373	BRIO SMALL NIB	B	34	9	3	X				100
07374	BRIO SMALL NIB	B	42	9	3	X				100
90049	BRIO SMALL NIB	A	41	10	4,5	X				100
90055	BRIO SMALL NIB	A	31	10	3	X				100
90056	BRIO SMALL NIB	A	37,2	0	0	X				100
90057	BRIO SMALL NIB	A	26	10	1,5	X				100
90058	BRIO SMALL NIB	A	39	10	4,5	X				100
90060	BRIO SMALL NIB	A	26	7	1,5	X				100
90061	BRIO SMALL NIB	A	36	10	3	X				100
90062	BRIO SMALL NIB	A	34,7	0	0	X				100
90063	BRIO SMALL NIB	A	29	0	0	X				100
90064	BRIO SMALL NIB	A	35	7	1,5	X				100
90066	BRIO SMALL NIB	A	30	10	4,5	X				100
90067	BRIO SMALL NIB	A	32	0	0	X				100
90068	BRIO SMALL NIB	A	32	10	1,5	X				100
90070	BRIO SMALL NIB	A	51	10	3	X				100
90075	BRIO SMALL NIB	A	42	7	1,5	X				100
90081	BRIO SMALL NIB	A	44	10	3	X				100
90082	BRIO SMALL NIB	A	38	10	3	X				100
90083	BRIO SMALL NIB	A	38	10	4,5	X				100
90084	BRIO SMALL NIB	A	50	10	4,5	X				100
90086	BRIO SMALL NIB	A	31	10	6	X				100
90088N	BRIO SMALL NIB	C	21	0	0	X				100



BRIO ZAMAK NIBS

Functions

Brio zamak nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.
Recommended for those series that have the handle fitted on the shoulder of the sash profile.

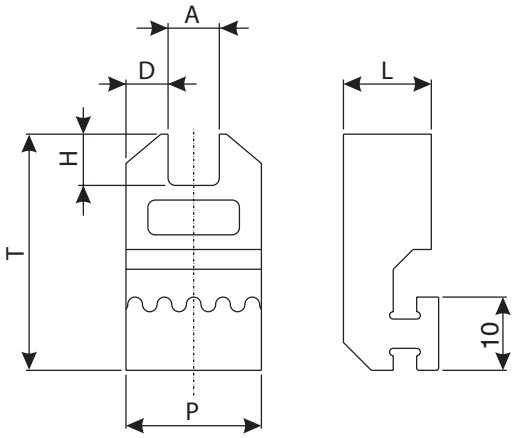
Online data sheet

Technical Features

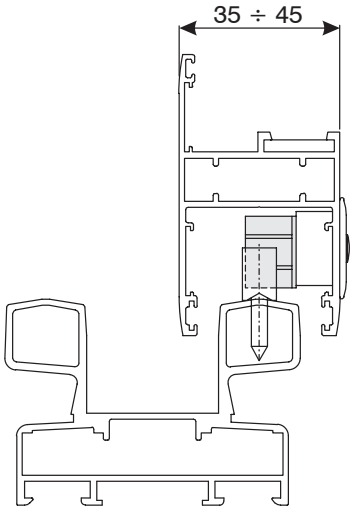
Brio zamak nibs can be used on all the handles of the Brio line in conjunction with the front counterplates.
They are fitted with oversized heads to enable efficient use on the counterplate, and guarantee improved sealing and more range of adjustment of the lock point elements.

Materials

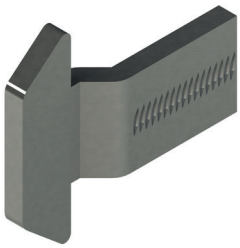
Zinc plated zamak



Example of application



Item code	Description	A [mm]	D [mm]	P [mm]	H [mm]	T [mm]	L [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
04598	BRIO NIB - ZAMAK	7,0	6,0	18,5	7,0	32,0	12,0	X				100
05011	BRIO NIB - ZAMAK	7,0	6,0	18,5	9,0	34,5	6,0	X				100
9008701	BRIO NIB - ZAMAK	7,0	4,0	15,0	5,0	32,0	10,0	X				100



PRATIKA/NADA NIBS

Functions

Pratika and Nada nibs, combined with a counterplate, enable making the fastening mechanism of sliding casements.

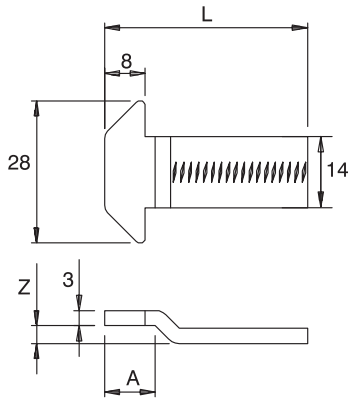
Online data sheet

Technical Features

Pratika and Nada nibs are made of stainless steel and are characterized by their exceptional strength.
They are fitted with oversized heads to enable efficient use on the counter-plate, and guarantee improved sealing and more range of adjustment of the lock point elements.
Pratika and Nada nibs can be combined with a great variety of Giesse counter-plates (see relative section) depending on the series used.

Materials

Stainless Steel



Item code	Description	L [mm]	A [mm]	Z [mm]	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02675	PRATIKA/NADA NIB	32	9,5	3,5	X				100
02676	PRATIKA/NADA NIB	38	0	0	X				100
02677	PRATIKA/NADA NIB	37,5	9,5	1,5	X				100
02679	PRATIKA/NADA NIB	44	14	3,5	X				100
02682	PRATIKA/NADA NIB	51	0	0	X				100



INSERTED COUNTERPLATES

Functions

The counterplate to be inserted, combined with a nib for a recessed handle, creates the fastener of a sliding sash.

Online data sheet

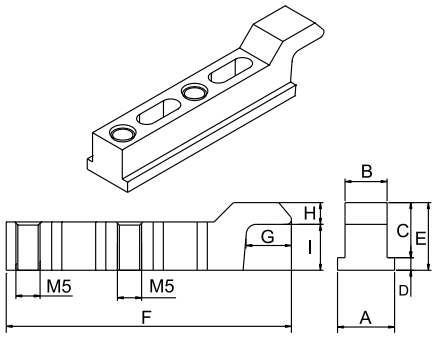
Technical Features

Inserted counterplates are to be inserted into the frame profile upright before assembly.
The counterplate is fixed to the frame by means of contrast grubscrews.
This type of counterplate has the advantage of being able to be height adjusted by simply loosening the grub screws and then repositioning them.
They feature high tear strength as they are held by the profile.

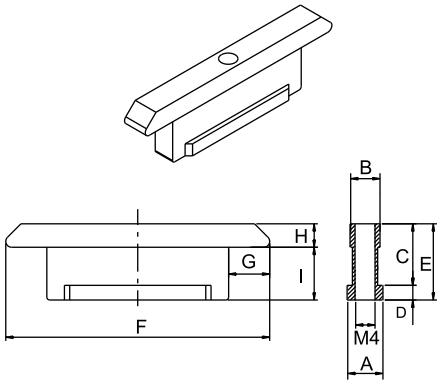
Materials

Zamak body (GS Silver Plus/GS500)
Stainless steel grub screws

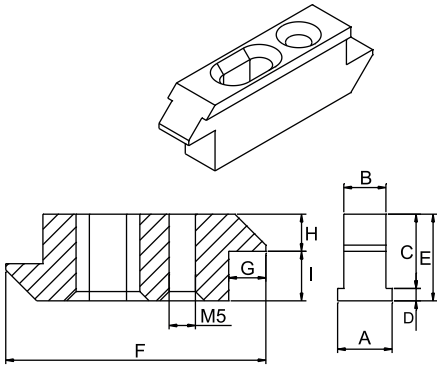
Type 1



Type 2



Type 3



Item code	Description	Type	A	B	C	D	E	F	G	H	I	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03326	INSERTED COUNTERPLATE	2	6	5	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
0332701	INSERTED COUNTERPLATE	2	10	8	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
0332801	INSERTED COUNTERPLATE	2	8	6	10,5	2,5	13	45	7	4	9	YES	YES	NO	X				100
03930	INSERTED COUNTERPLATE	3	10,5	8	11	3	14	42	6	4	10	YES	YES	NO	X				30
03947	INSERTED COUNTERPLATE	1	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	YES	YES	NO	X				30
03985	INSERTED COUNTERPLATE	1	8	7	11	3,5	14,5	37	5	4,5	10	YES	YES	NO	X				30
04685	INSERTED COUNTERPLATE	1	11,8	8,7	11,4	2,6	14	59	9,3	4,5	9,5	YES	YES	NO	X				100
9003001	INSERTED COUNTERPLATE	3	10,5	8	11	3	14	42	6	4	10	YES	YES	NO	X				100
9003301	INSERTED COUNTERPLATE	3	10	9	11	2	13	33	5,5	5,5	7,5	YES		NO	X				100
9003601	INSERTED COUNTERPLATE	3	7,8	6,8	9	1,5	10,5	42	6	4	6,5	YES		NO	X				100
90039	INSERTED COUNTERPLATE	3	8,8	6,8	12	2	14	42	6	6	8	YES		NO	X				100
90040	INSERTED COUNTERPLATE	1	12,1	8,7	11,4	2,6	14	59	9,3	4,5	9,5	YES	YES	NO	X				100
90044N	INSERTED COUNTERPLATE	1	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	YES	YES	NO	X				100
90077	INSERTED COUNTERPLATE	3	17,5	14,3	11,2	3,3	14,5	45	6	5	9,5	YES	YES	NO	X				100
90079	INSERTED COUNTERPLATE	1	8	7	11	3,5	14,5	37	5	4,5	10	YES	YES	NO	X				100
9008001	INSERTED COUNTERPLATE	1	10	7	10,5	3,5	14	35	9,5	4,5	9,5	YES	YES	NO	X				100



FRONT-MOUNTED COUNTERPLATES

Functions

The front application counterplate combined with a nib for a recessed handle creates the fastener of a sliding sash.

Online data sheet

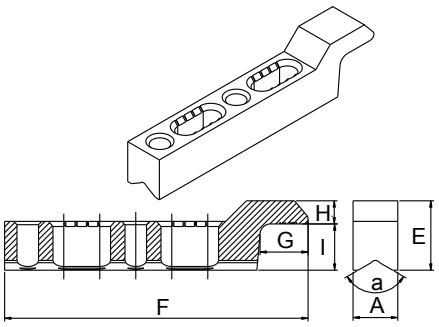
Technical Features

The front-mounting counterplates are fitted with the frame already assembled, on the frame upright usually with self-tapping screws.
This type of counterplate has the advantage of being able to be height adjusted thanks to the slots for accommodating screws, by simply loosening them and then repositioning the counterplate.
Available in different versions depending on the profile on which they are to be mounted.
For Type 1 counterplates there is also a cosmetic cover and an 8 mm shim.

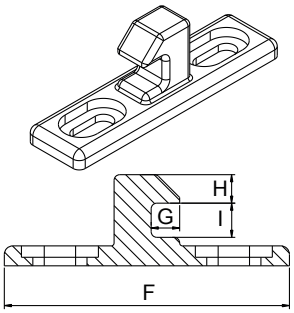
Materials

Zamak body (GS Silver Plus/GS500)
Stainless steel fixing screws

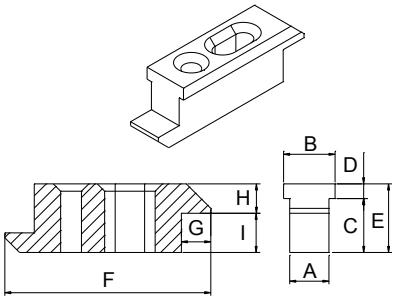
Type 1



Type 2



Type 3



Item code	Description	Type	Shims	A	B	C	D	E	F	G	H	I	a°	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02616	COVER FOR COUNTERPLATE TYPE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X				200
03337	FRONT-MOUNTED COUNTERPLATE	1	no	8,7	-	-	-	13,5	59	9,3	4,5	9	120°	YES	YES	YES	X				100
03338	FRONT-MOUNTED COUNTERPLATE	1	no	8,7	-	-	-	13,5	59	9,3	4,5	9	120°	YES	YES	YES	X				100
03389	FRONT-MOUNTED COUNTERPLATE	1	≤ 12.5 mm	8,7	-	-	-	13,5	59	9,3	-	-	120°	YES	YES	YES	X				20
9002901	FRONT-MOUNTED COUNTERPLATE	2	no	13	7,5	12,5	3,5	16	50	5	4	7	-	YES	NO	NO	X				100
90032	FRONT-MOUNTED COUNTERPLATE	3	no	6,8	8,8	2	12	14	42	6	6	8	-	YES	NO	NO	X				100
9003401	FRONT-MOUNTED COUNTERPLATE	3	no	8	10,5	3	11	14	42	6	6	8	-	YES	NO	NO	X				100
9003801	FRONT-MOUNTED COUNTERPLATE	1	no	10	-	-	-	14	43	5	6	8	120°	YES	NO	NO	X				100
9004201	FRONT-MOUNTED COUNTERPLATE	1	no	8,2	-	-	-	18,5	42	6	6	12,5	150°	YES	YES	YES	X				100
90047	FRONT-MOUNTED COUNTERPLATE	1	no	12,1	9,4	11,7	2,3	14	59	9,3	4,5	9,5	-	YES	YES	YES	X				100
90085	FRONT-MOUNTED COUNTERPLATE	1	no	8	6,2	11	3,5	14,5	37	5,1	4,5	10	-	YES	YES	YES	X				100



COUNTERPLATES FOR MILLED RAIL

Functions

The front application counterplate combined with a nib for a recessed handle creates the fastener of a sliding sash.

Online data sheet

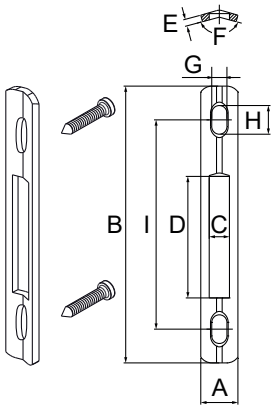
Technical Features

The counterplate is applied on the frame of a sliding casement by means of the self-threading screws supplied.
It is specific to those profiles that require the rail on the cross beam of the frame.
The slots on the counterplate body enable height adjustment in order to correctly position it for a better grip on the nib.
The base of the counterplate provides for an angle of 150° so that it can be applied on frames with rail and frames with flat slot.
The counterplate is compatible with Giesse Brio and Pratika line nibs.
Available in two versions without (type 1) and with shutter (type 2).
According to need, the version without a shutter can be combined with polyamide shims so that it can be moved away from the frame.

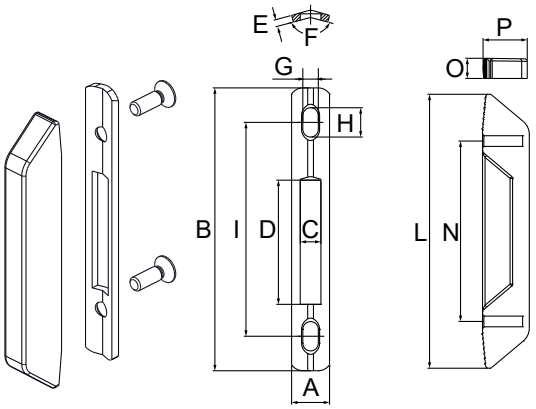
Materials

Corrosion-proof stainless steel counterplate
Zamak shutter (GS Silver Plus/GS500)
Stainless steel screws

Type 1



Type 2



Item code	Description	Type	A	B	C	D	E	F	G	H	I	L	N	O	P	Compatible with Brio Small nib	Compatible with Brio Big nib	Compatible with Brio Zamak nib	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03336	FRONT-MOUNTED COUNTERPLATE	1	11	82	6	36	2	150°	4,5	8,5	62	-	-	-	-	YES	YES	NO	X				100
03336L	FRONT-MOUNTED COUNTERPLATE	1	16	82	10	36	2	150°	5	8,5	54	-	-	-	-	YES	YES	NO	X				100
04688	FRONT-MOUNTED COUNTERPLATE+SHUTTER	2	11	82	6	36	2	150°	6	6	54	80	54	8	9	YES	YES	NO	X				100
04690	FRONT-MOUNTED COUNTERPLATE+SHUTTER	2	16	82	10	36	2	150°	5	8,5	54	80	54	12	9	YES	YES	NO	X				100
90035	COUNTERPLATE + SHUTTER	2	11	82	6	36	2	150°	6	6	54	82	54	6	17	YES	YES	NO	X				100
90041N	FRONT-MOUNTED COUNTERPLATE	1	11	82	6	36	2	150°	4,5	8,5	62	-	-	-	-	YES	YES	NO	X				100
90043	COUNTERPLATE + SHUTTER	2	11	82	6	36	2	150°	6	6	54	82	54	8	14	YES	YES	NO	X				100



VARIOUS COUNTERPLATES

Functions

The counterplate, combined with a nib for a recessed handle, creates the fastener of a sliding sash.

Online data sheet

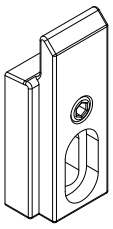
Technical Features

These counterplates are difficult to classify as they are specific for sliding profiles (in particular frames) that have unique characteristics.
For the application it is advisable to see Giesse Where Used.
They are fixed depending on the version or by self-threading screws, or by pre-assembled grub screws.

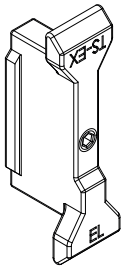
Materials

Zamak with GS Silver Plus finish
Screws and grub screws in stainless steel

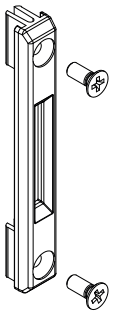
0299101



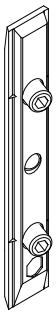
0469401



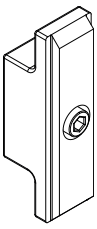
05003



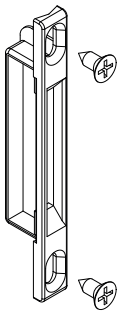
0737201



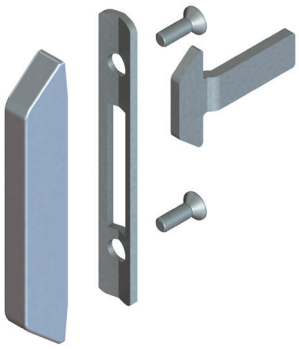
0737801



9007601



Item code	Description	Fixing	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0299101	INSERTED COUNTERPLATE	grub screw	X				100
0469401	INSERTED COUNTERPLATE	grub screw	X				100
05003	COUNTERPLATE	expanding	X				100
0737201	FRONT-MOUNTED COUNTERPLATE	grub screws	X				100
0737801	INSERTED COUNTERPLATE	grub screw	X				100
9007601	COUNTERPLATE	self - threading	X				100



BRIO EVO COUPLING KIT

Functions

Brio coupling kits comprise the components necessary for creating a fastening mechanism on aluminium sliding windows or doors.
They can be used in combination with the full Brio range (Brio Evo, Brio Mini Evo, Brio Evo Rapid, City Cremone handles, including Key versions).

Online data sheet

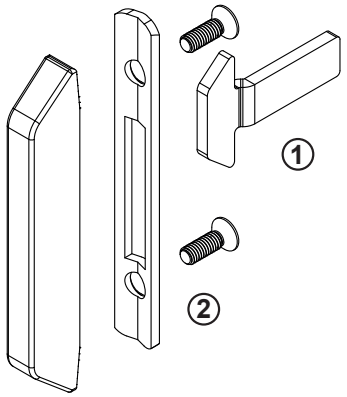
Technical Features

The coupling kits are composed of nib and a counterplate, packed together so that the window maker has everything required for making the fastening mechanism for the sliding door or window.
The nib is available in stainless steel and zamak.
The length and anchoring varies depending on the profile to be used.
The counterplate is available in stainless steel or zamak.
Depending on the frame in which it is to be fitted, it is available in the following versions:
A – insert
B - front mounting
C - front mounting with milled rail
D - front mounting with milled rail and shutter
E - miscellaneous

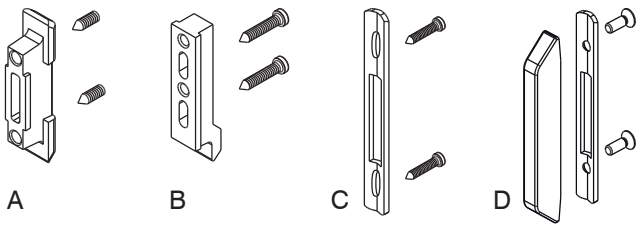
Materials

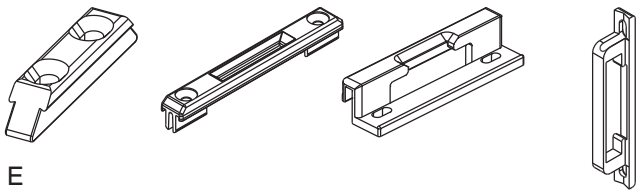
Stainless steel nibs
Counterplates:A – zamak counterplate and stainless steel grub screws
B – zamak counterplate and stainless steel screws
C – counterplate and screws in stainless steel
D – shutter in zinc plated zamak and counterplate and screws in stainless steel
E – zamak

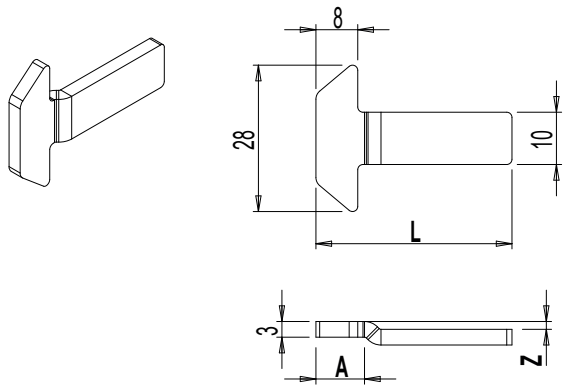
Example of Brio Evo coupling kit
1 - Nib
2 - Counterplate (variable depending on the product)



Possible counterplates







Item code	Description	Nib	L	A	Z	Counterplate	Counterplate type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0078902	BRIO EVO COUPLING KIT	0333301	33	9,5	1	9007601	E	X				20
0080201	BRIO EVO COUPLING KIT	0458901	36,3	0	0	90032	A	X				20
0488801	BRIO EVO COUPLING KIT	0457701	38,3	0	0	specific	C/D	X				20
0489101	BRIO EVO COUPLING KIT	0458001	51	0	0	90047	B	X				20
0489301	BRIO EVO COUPLING KIT		50	14	3,5	90047	B	X				20
0489401	BRIO EVO COUPLING KIT	0458201	37,5	9,5	1,5	specific	C/D	X				20
0489501	BRIO EVO COUPLING KIT	0458301	44,5	9,5	1,5	03337	B	X				20
0489601	BRIO EVO COUPLING KIT	0499101	44	14	3,5	specific	C/D	X				20
0489701	BRIO EVO COUPLING KIT	0459401	43	12,5	5,5	specific	C/D	X				20
0489901	BRIO EVO COUPLING KIT	0458201	37,5	9,5	1,5	specific	C/D	X				20
0490201	BRIO EVO COUPLING KIT	0458901	32	9	5	03336L	C/D	X				20
04902L1	BRIO EVO COUPLING KIT	0458901	32	9	5	03336L	C/D	X				20
0490301	BRIO EVO COUPLING KIT	0458901	32	9	5	04687	A	X				20
0490401	BRIO EVO COUPLING KIT	0458601	32,2	9,5	3,5	04688	C/D	X				20
0490501	BRIO EVO COUPLING KIT	0458601	32,2	9,5	3,5	specific	C/D	X				20
0491001	BRIO EVO COUPLING KIT	0458201	37,5	9,5	1,5	03947	A	X				20
04912L1	BRIO EVO COUPLING KIT	0459501	30	11	8	04690	C/D	X				20
0491301	BRIO EVO COUPLING KIT	0458401	28,5	10,4	3,5	specific	C/D	X				20
0491601	BRIO EVO COUPLING KIT	0458101	29	9,5	1,5	specific	C/D	X				20
0491701	BRIO EVO COUPLING KIT	0499002	36,3	0	0	90047	B	X				20
0491902	BRIO EVO COUPLING KIT	0500401	42	14,8	2,5	90076	E	X				20
0492001	BRIO EVO COUPLING KIT	0459201	50	17	5	90047	B	X				20
0492101	BRIO EVO COUPLING KIT	0499202	38	14	3,5	specific	C/D	X				20
0496601	BRIO EVO COUPLING KIT	0499002	36,3	0	0	specific	C/D	X				20
04994L1	BRIO EVO COUPLING KIT		32	12,5	8	04690	C/D	X				20
0714102	BRIO EVO-CITY COUPLING KIT MONACO TOP LINE	0459001	36,3	0	0	9007601	E	X				20
0714202	BRIO EVO-CITY COUPLING KIT MEDITERRANEA M3	0499202	38	13,7	3,5	9007601	E	X				20



PRATIKA/NADA COUPLING KIT

Functions

The coupling kits comprise the components necessary for creating a fastening mechanism on aluminium sliding windows or doors. They can be used in combination with the whole PRATIKA range (including the key version) and NADA range.

Online data sheet

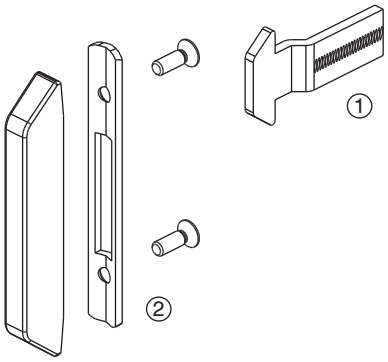
Technical Features

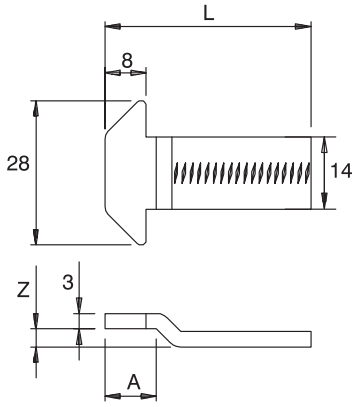
The coupling kits are composed of nib and a counterplate, packed together so that the window maker has everything required for making the fastening mechanism for the sliding door or window.
The nib is made of stainless steel and is available with various lengths and anchorings based on the series used.
The counterplate is available in stainless steel or zamak.
Depending on the frame in which it is to be fitted, it is available in the following versions:
A – insert
B – front application
C – front mounting with milled rail
D – front mounting with milled rail and shutter
Pratika and Nada coupling kits can be applied to:
- Pratika
- Pratika Duo Key
- Pratika Duo
- Nada
- City Cremone

Materials

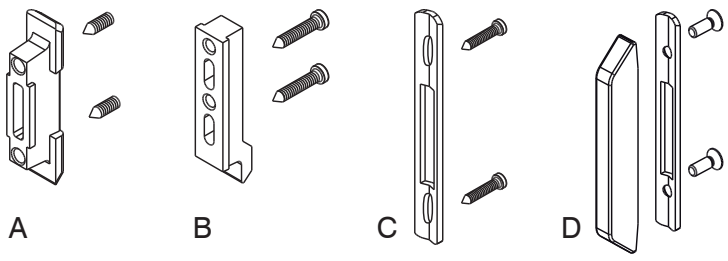
Stainless steel nibs
Counterplates:
A – zamak counterplate and stainless steel grub screws
B – zamak counterplate and stainless steel screws
C – counterplate and screws in stainless steel
D – shutter in zinc plated zamak and counterplate and screws in stainless steel

1 - Nib
2 - Counterplate (variable depending on the product)





Possible counterplates



Item code	Description	Nib	L	A	Z	Counterplate	Counterplate type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02148	PRATIKA/NADA COUPLING KIT	02687	29	0	0	Specific	C	X				20
02149	PRATIKA/NADA COUPLING KIT	02675	32	9,5	3,5	Specific	C	X				20
03058	PRATIKA/NADA COUPLING KIT	02673	34	11	8	04686	A	X				20
03063L	PRATIKA/NADA COUPLING KIT	02674	30	11	8	04690	C	X				20
03068	PRATIKA/NADA COUPLING KIT	02675	32	9,5	3,5	04688	C	X				20
03069L	PRATIKA/NADA COUPLING KIT	02686	32	12,5	8	04690	C	X				20
03082	PRATIKA/NADA COUPLING KIT	02676	38	0	0	Specific	C	X				20
03083	PRATIKA/NADA COUPLING KIT	02677	37,5	9,5	1,5	Specific	C	X				20
03084	PRATIKA/NADA COUPLING KIT	02678	44,5	9,5	1,5	Specific	C	X				20
03085	PRATIKA/NADA COUPLING KIT	02679	44	14	3,5	Specific	C	X				20
03087	PRATIKA/NADA COUPLING KIT	02680	29	9,5	1,5	Specific	C	X				20
03088	PRATIKA/NADA COUPLING KIT	02681	32	9,5	5	04688	C	X				20
03088L	PRATIKA/NADA COUPLING KIT	02681	32	9,5	5	03336L	C	X				20
03092	PRATIKA/NADA COUPLING KIT	02683	50	14	3,5	90047	B	X				20
03098	PRATIKA/NADA COUPLING KIT	02678	44,5	9,5	1,5	03337	B	X				20
03346	NIB HOLDER FOR STEM SIZE 10 mm							X				50



DELTA PLUS LUG HANDLE

Functions

Lug handle for the lock on the central upright of a door or a sliding window made of aluminium.

Online data sheet

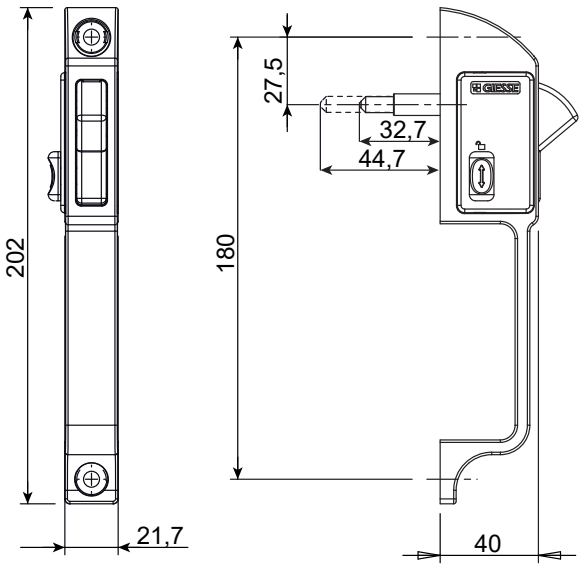
Technical Features

The Delta Plus handle fixing system is accomplished using expansion dowels.
The machining required on the profile comprises two simple 10 mm holes and one 9 mm hole which is needed for the pin to pass through.
The stroke of the lock pin is = 15 mm.
The Delta Plus handle has a selector that locks the main lug in the closed position.
This function prevents unintentional opening of the handle, improving security.
When the selector is in the block position you cannot move the main open/close lug.

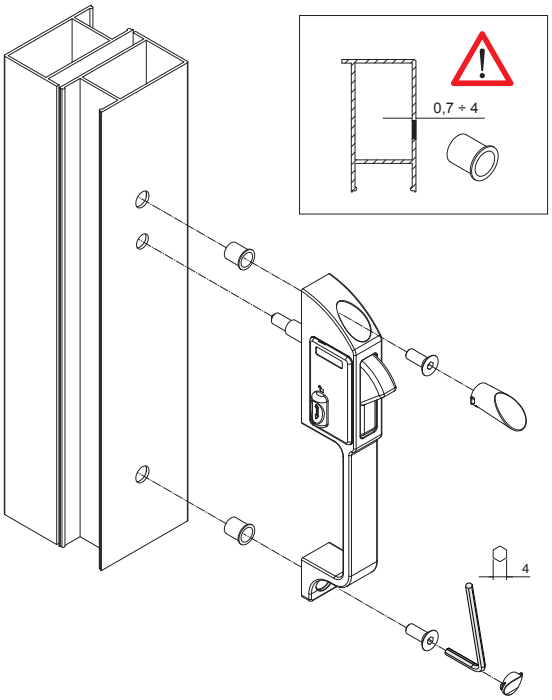
Materials

Handle body made of die-cast aluminium
Lugs, side guards and shims made of polyamide with glass fibre
Zinc-coated steel pin
Protective caps for fixing screws made of rubber
Stainless steel fixing screws
Fixing inserts made of zinc plated steel

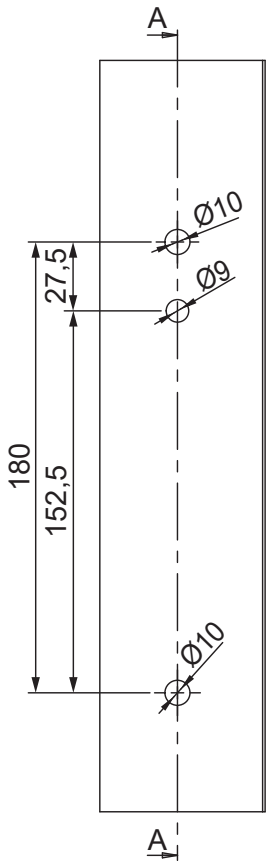
Overall dimensions



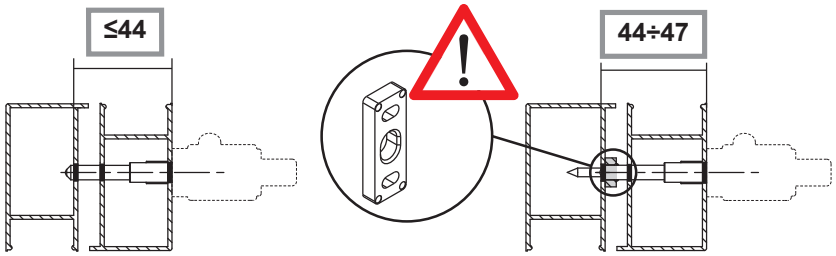
Handle assembly



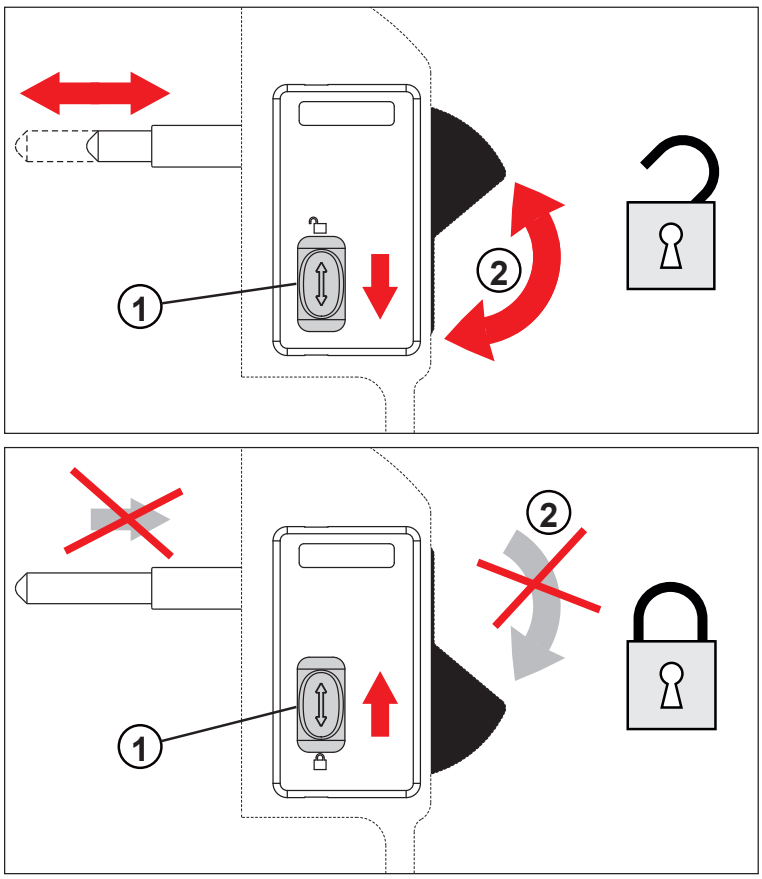
Machining



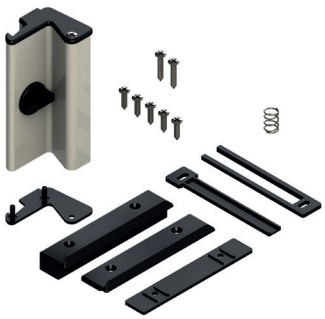
Pin stroke



Open/Close lug



Item code	Description	Pin length (sash open) mm	Pin length (sash closed) mm	Pin stroke mm	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02701	DELTA PLUS LUG HANDLE	32,7	47,7	15	X		X		20



BUTTERFLY HANDLE

Functions

External carry handle, with snap coupling, to be fitted laterally on aluminium sliding doors.

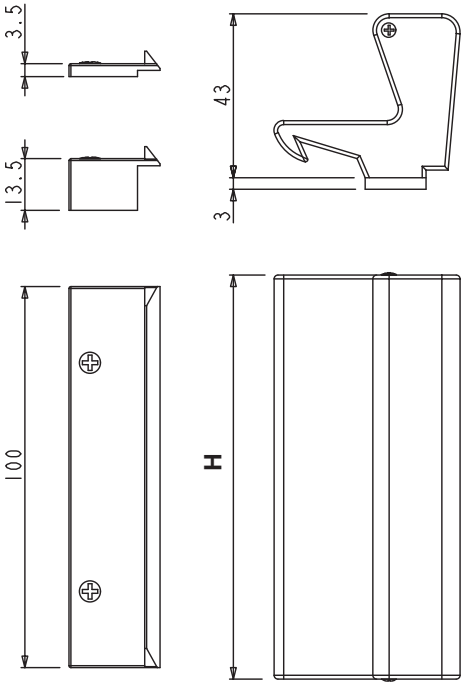
Online data sheet

Technical Features

The handle is disengaged and the sash opened by simply pressing on the side.
Available with closing Block H of 106 and 181 mm (by turning the special device) or without block H = 106 mm.

Materials

Handle body made of extruded aluminium
Casing, striker and shim in black polyamide
Spring in zinc plated steel



Item code	Description	Closing block	Handle height H	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03172	BUTTERFLY HANDLE	NO	106	X	X	X		20
03177	BUTTERFLY HANDLE	YES	181	X	X	X		20



MISMO

Functions

The Mismo fastening element is composed of a nib carrier on which is housed the nib that, engaging in the corresponding counterplate, makes a locking point.

Online data sheet

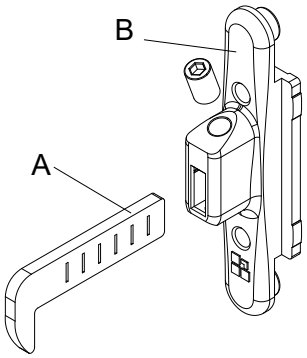
Technical Features

The nib is secured in the nib-holder with the grub screw. In the Mismo multilock the number of fastening components can be varied according to the desired grade of security of the casement.
The nib-holders are interconnected with a rod 15/20 with an 8 mm diameter hole.

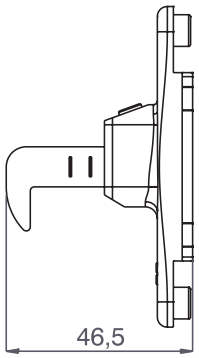
Materials

Housing in Zamak
Mounting grubscrew and nib in stainless steel

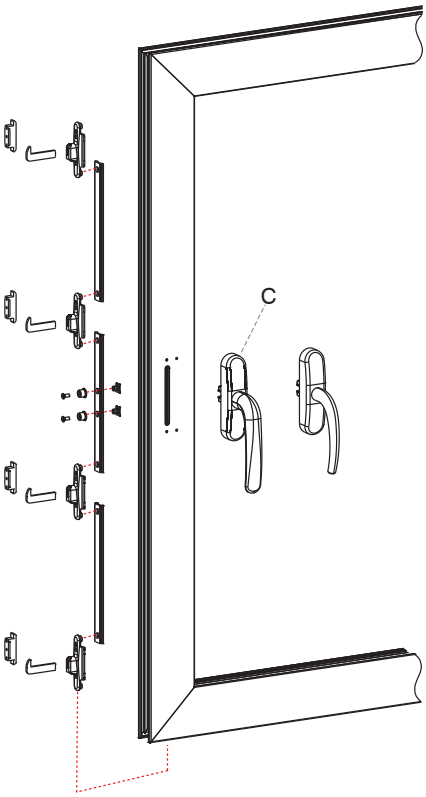
A=Nib (03345) B=Nib carrier (03340)



Dimensions



A = One-way cover cremone or other compatible model



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0334001	MISMO NIB HOLDER		X				50
03345	MISMO STRAIGHT NIB	2 mm	X				50



BRIO TOP SECURITY

Functions

Multi-lock for slider operated by a recessed handle, which allows closing with 2 (window) or 3 (door) locking points.

Online data sheet

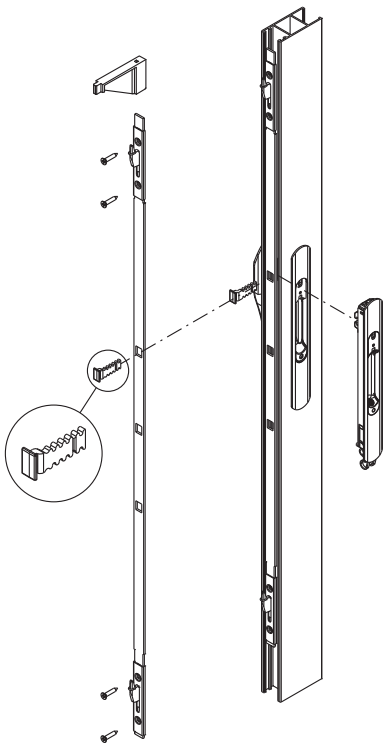
Technical Features

The BRIO TOP SECURITY multi-lock is fitted on sashes with 90° cuts in which the recessed handle is applied inside the tubular section.
The hardware is made of stainless steel to guarantee optimum resistance to wear. The opening and closing movement is transmitted by the recessed handle to the hardware by means of a zamak connector (versions available both for insertion and for screwing in).
The lock points engage with the counterplates on the frame (not supplied).
Brio Top Security comprises three fastening nibs and is applied to the profile at the front using self-tapping screws, the machining is simple and fast thanks to the use of a drilling template.
Not suitable for use on insulating profiles.
For the centring of the hardware use the template 02612.

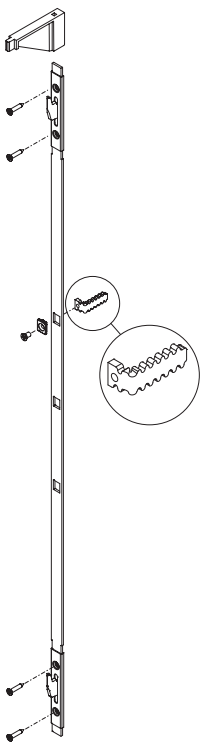
Materials

Nib, fixing plate, multi locking rod and drive element in stainless steel.
Fixing for connection elements in zinc plated zamak.
Polyamide positioning template.

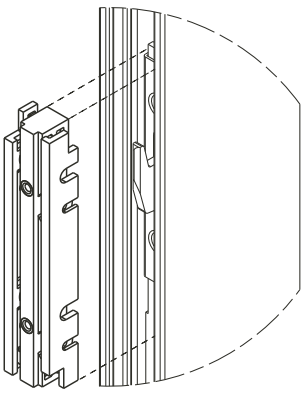
Version A: Connection to nib



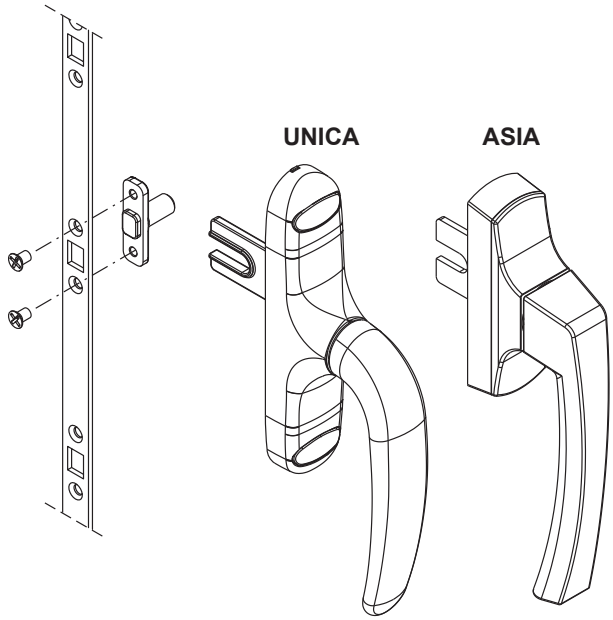
Version B: Connection to nib screwed in



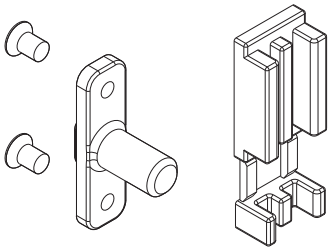
Centring template



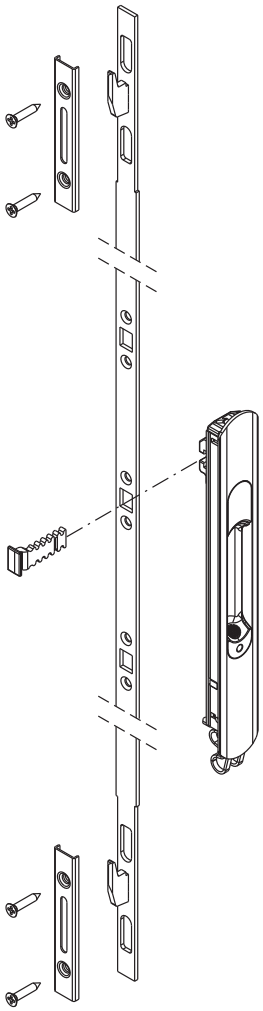
Version C: Connection to Cremone and Drive rod (04109)



04109 Drive rod for Top Security multilock



Version C: Connection to Brio Evo



Item code	Description	Sash height	Locking points	Version	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02997	TOP SECURITY BRIO MULTILOCK2P	800 - 1600 mm	2	A	X				10
02998	TOP SECURITY BRIO MULTILOCK 3P	> 1600 mm	3	A	X				10
03482	TOP SECURITY BRIO MULTILOCK 3P	> 1600 mm	3	B	X				10
03483	TOP SECURITY BRIO MULTILOCK2P	800 - 1600 mm	2	B	X				10
03733	TOP SECURITY MULTILOCK 2P	800 - 1600 mm	2	C	X				10
03734	TOP SECURITY MULTILOCK 3P	> 1600 mm	3	C	X				10
02612	BRIO MULTILOCK CENTRING TEMPLATE				X				5
04109	DRIVE ROD FOR TOP SECURITY MULTILOCK			C	X				20



TEMPO MULTILOCK

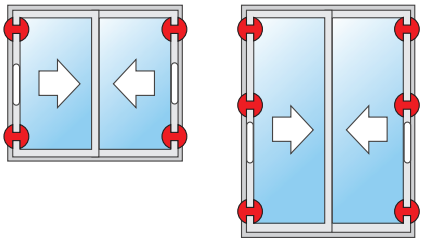
Functions

Multilocking system, for aluminium sliding doors and windows, can be operated with a single mechanism (cremone, window handle or recessed handle).

Product not available for France.

Technical Features

Tempo is a complete system. It enables making windows or sliding doors with 2 or 3 locking points.
The wide range of handgrips allows you to choose between handles, cremones or single or double recess handles.
All the products are dedicated.
The multi-lock hardware (rods and nibs) is particularly resistant to corrosion being made entirely of polyamide and stainless steel.
The Tempo system consists of:
- fastening rods
- optional fastening mechanisms
- mechanism parts
- mechanism fixing kit





FASTENING MECHANISM RODS

Functions

Can be combined with the Tempo mechanism elements, they can be operated with the square spindle or shift system and they enable closing sash windows (2 lock points) or sliding doors (3 lock points).

Online data sheet

Technical Features

Available in two mechanism versions and in two different lengths.
The hardware is coupled with the profile by snap-fitting (no tools needed) inside the specific machining.
The nibs allow a side adjustment of ±5 mm.

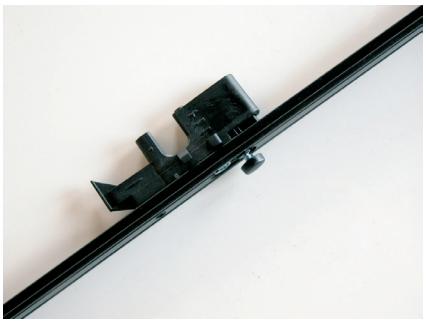
Materials

Rod and elements for coupling to the profile and mechanism made of polyamide
Rotor in die-cast zamak
Stainless steel nibs

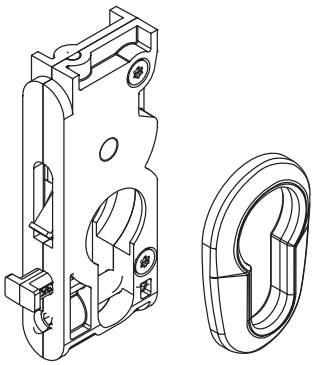
Mechanism with square spindle



Shifting mechanism



Item code	Description	Length	Mechanism Type	Locking points	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06000	TEMPO ROD	680	square spindle	2	X				10
06001	TEMPO ROD	1650	square spindle	3	X				10



OPTIONAL FASTENING MECHANISMS

Functions

Components that, added to the closing rods, increase the functions of the Tempo system.

Online data sheet

Technical Features

All TEMPO rods are prepared for mounting the lock, which can then only be used if necessary.
The lock is completed by a cover plate and a dedicated cylinder.

Materials

Lock mechanism and cover plate in polyamide
Lock cover in extruded aluminium.

Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06031	TEMPO LOCK		X				100
06032	COVER FOR TEMPO LOCK				X		100
06041	TEMPO REDUCED CYLINDER		X				100



MECHANISM COMPONENTS

Functions

A wide range of mechanisms, available both single and double, which allow operating the Tempo fastening rods, via square spindle or shift.

Online data sheet

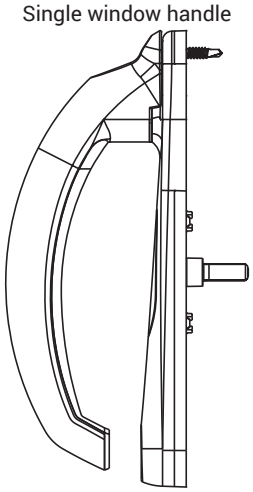
Technical Features

The Tempo multi-lock can be operated with 4 different mechanisms all available in single and double versions:
Handle
Arched pull handle
Cremone
Recessed handle
All the mechanisms can be equipped with the lock.
An external pull handle is also available.

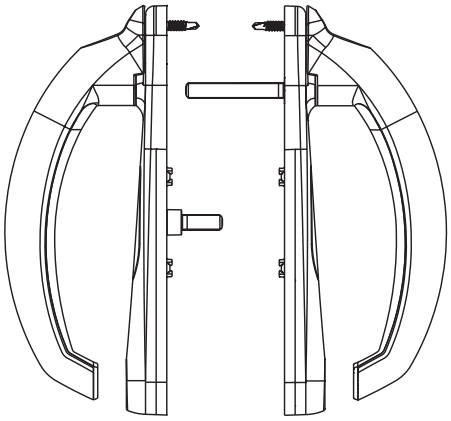
Materials

WINDOW HANDLE AND CREMONE
Handle and body in die-cast aluminium
Zinc plated steel screws.
Rotor and square spindle in die-cast zamak.
Screw caps and plate in polyamide.
ARCHED HANDLE
Body in die-cast aluminium
Polyamide spindle operating lever
Zinc plated steel screws
RECESSED HANDLE
Body in extruded aluminium
Die-cast zamak coupling element
Rod pulling element made of polyamide

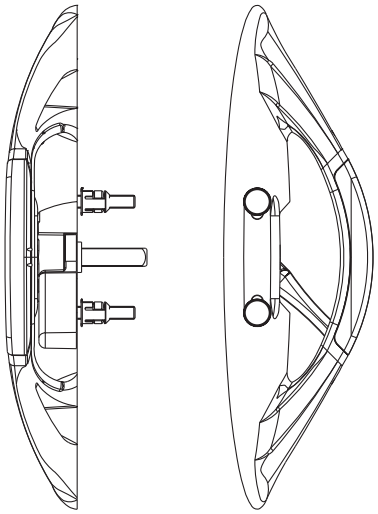
Single window handle



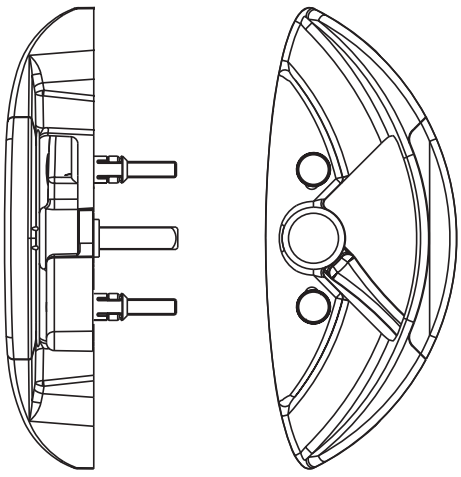
Double window handle



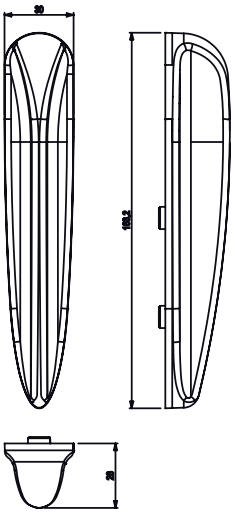
Large arched pull handle



Small arched pull handle

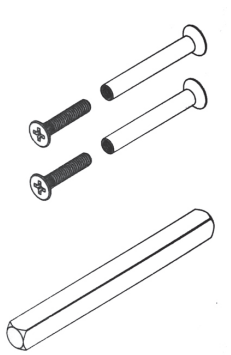


External drive handle



TEMPO MULTILOCK

Item code	Description	Version	Fixing	Rods	Mechanism type	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06020	WINDOW HANDLE	Single	in the package	06000 - 06001	square spindle	X		X		20
06021	WINDOW HANDLE	Double	06033	06000 - 06001	square spindle			X		20
06024	LARGE ARCHED PULL HANDLE	Single	in the package	06000 - 06001	square spindle			X		20
06025	LARGE ARCHED PULL HANDLE	Double	06034	06000 - 06001	square spindle			X		20
06026	SMALL ARCHED PULL HANDLE	Single	in the package	06000 - 06001	square spindle			X		20
06030	EXTERNAL DRIVE HANDLE		06036					X		20



MECHANISM FIXING KIT

Functions

Fixing systems which allow fitting the mechanisms irrespective of the section of the profile.

Online data sheet

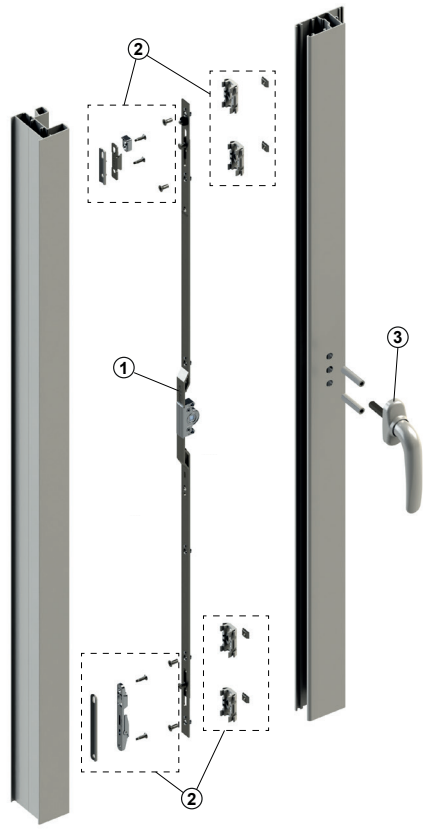
Technical Features

Tempo offers 4 different types of fasteners to enable fitting the double mechanism components.

Materials

Screws and square spindle in zinc plated steel.
Threaded insert in aluminium.

Item code	Description	Profile cross-section (mm)	Compatible mechanisms	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06033	WINDOW HANDLE AND CREMONE FIXING KIT	28 - 35	06021 - 06023	X				100
06034	LARGE ARCHED HANDLE FIXING KIT	30 - 34	06025	X				100
06036	DRIVE ROD HANDLE FIXING KIT	28 - 35	06030	X				100



CHAMPION PLUS MULTILOCK

Functions

Multilocking system, for aluminium sliding doors and windows, that can be operated with a single mechanism (window handle or recess handle).

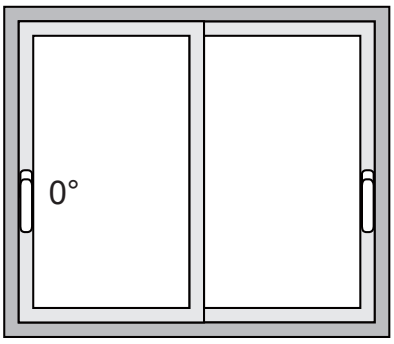
Technical Features

Champion Plus is a locking system consisting of 3 different components:
1. Standard fastening rod or fastening rod with micro-ventilation
2. Fixing kit for standard fastening rods or fastening rods with micro-ventilation
3. Mechanisms

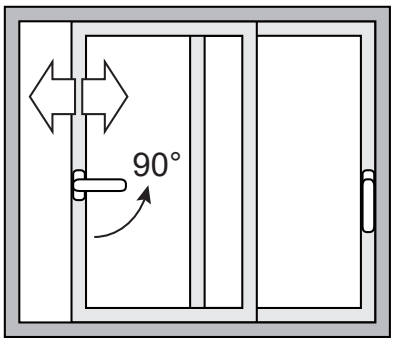
Depending on the type of sliding system used and the size of the sash, the appropriate fastening rod and fixing kit must be selected.

CHAMPION PLUS - VERSION WITH MICRO-VENTILATION

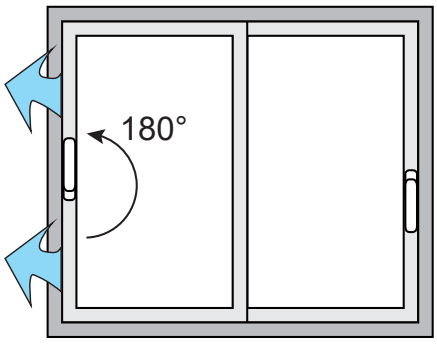
1. Closed window



2. Opening window

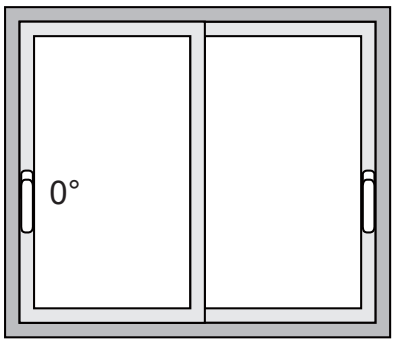


3. Window in micro-ventilation position

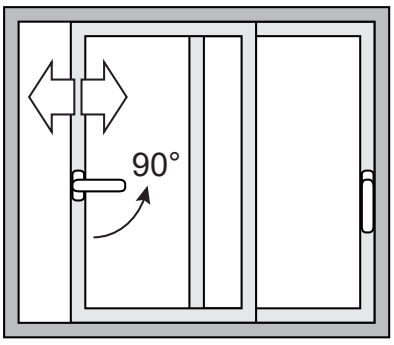


CHAMPION PLUS - STANDARD VERSION (WITHOUT MICRO-VENTILATION)

1. Closed window



2. Opening window





CHAMPION PLUS FASTENING RODS WITH MICRO-VENTILATION

Functions

Rods that provide a 2- or 3-point multi-lock in an aluminium window or sliding door.

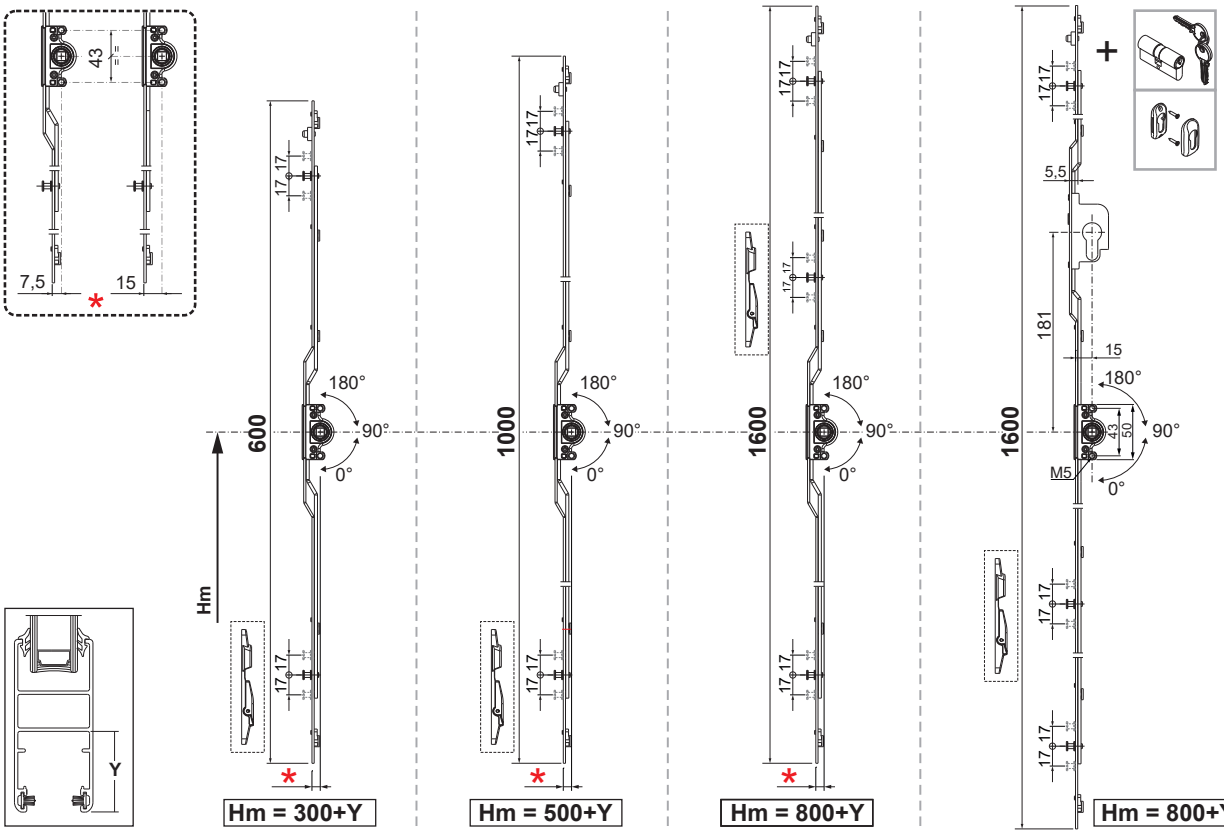
Online data sheet

Technical Features

The Champion Plus fastening rods with micro-ventilation are available with two different backsets: 7.5 and 15 mm in 3 different lengths: 600 (2 points), 1000 (2 points) and 1600 mm (3 points).
A version with key is also available for the 15 mm backset, with a length of 1600 mm (3 points).
These rods, if applied in combination with the appropriate fixing kit, allow for a position in which the sash moves away by a few millimeters from the closed position, allowing for air recirculation/passage (micro-ventilation).
These multi-locks have 3 operating positions:
1) 0° CLOSED SASH
2) 90° OPEN SASH
3) 180° MICRO-VENTILATED SASH
The 180° position can be inhibited by using a screw that limits the rotation of the mechanism to the 90° position only (open sash).
In this case, the micro-ventilation function will be excluded.
All CHAMPION PLUS rods WITH MICRO-VENTILATION are compatible with all window handles having a 7 mm square pin and fixing screws with 43 mm c/c distance.

Materials

Zinc-plated steel lift-proof pin and rods
Box for rotor and nibs in zamak



CHAMPION PLUS MULTILOCK

Item code	Description	Backset	Lock	Incorrect Movement Safety Device Compat-ibility	Length	Window handle height	Locking points	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06334	CHAMPION PLUS ROD WITH MICRO-VENTILATION	7,5	NO	NO	600	> 300 + Y	2	X				4
06335	CHAMPION PLUS ROD WITH MICRO-VENTILATION	7,5	NO	NO	1000	> 500 + Y	2	X				4
06336	CHAMPION PLUS ROD WITH MICRO-VENTILATION	7,5	NO	NO	1600	> 800 + Y	3	X				4
06337	CHAMPION PLUS ROD WITH MICRO-VENTILATION	15	NO	NO	600	> 300 + Y	2	X				4
06338	CHAMPION PLUS ROD WITH MICRO-VENTILATION	15	NO	NO	1000	> 500 + Y	2	X				4
06339	CHAMPION PLUS ROD WITH MICRO-VENTILATION	15	NO	NO	1600	> 800 + Y	3	X				4
06340	CHAMPION PLUS ROD WITH MICRO-VENTILATION	15	YES	NO	1600	> 800 + Y	3	X				4



CHAMPION PLUS FIXING KIT WITH MICRO-VENTILATION

Functions

The fixing kit is necessary to correctly and durably fix a Champion rod with micro-ventilation in a specific aluminium sliding system and to obtain the micro-air circulation function.

Online data sheet

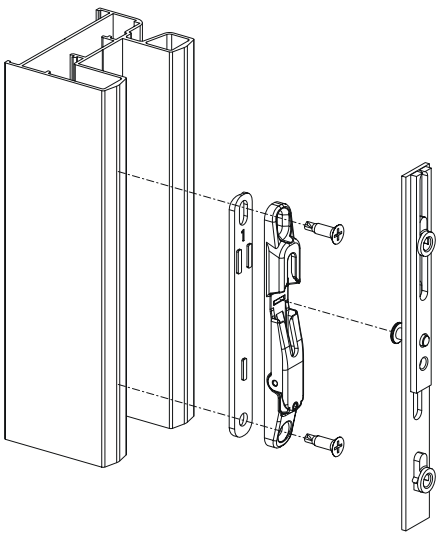
Technical Features

The Champion Plus fixing kit with micro-ventilation is available in two versions:
• for 2 point multi-lock
• for 3 point multi-lock
The Champion Plus fixing kit with micro-ventilation usually includes all those components necessary to apply the fastening rod in a specific aluminium sliding system.
These kits therefore generally include:
• Shims to adapt the rod to the sash profile
• Frame counterplates
• Frame micro-ventilation counterplate
• Frame counterplate adjustment shims
• Lift-proof component
• Fixing screws
• Window handle spacer tubes
By acting on the grub screw located at the front of the counterplate, it is possible to adjust the amount of micro-ventilation from a sash-frame crossing of +3 mm to +6 mm.
The rod adjustment shims snap into place, facilitating hardware installation operations.
Depending on the sliding system used, these adapters provide different fixing systems:
• direct to the profile, in which the screw grips directly in the sash profile
• with expansion (patented by Giesse) in which the adapter expands and anchors to the sash profile without the need for drilling

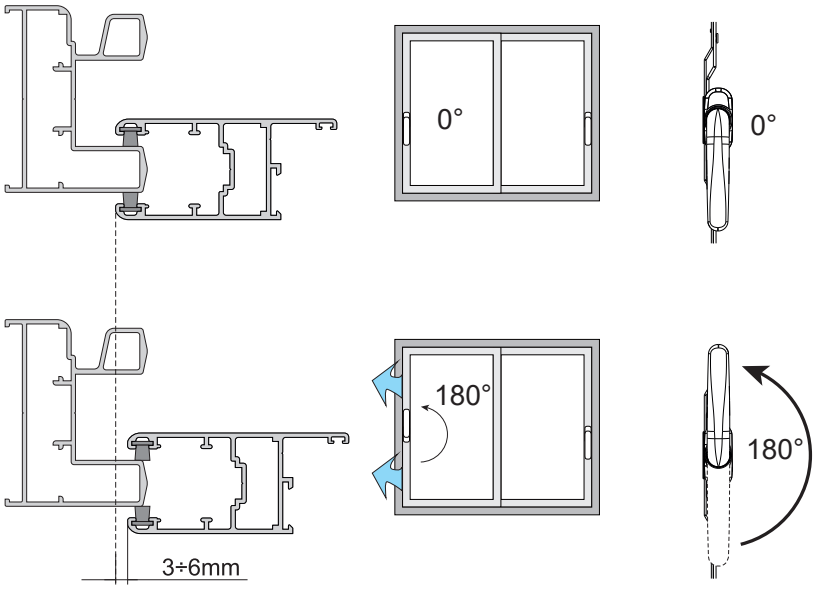
Materials

Shims for adapting the rod to the profile, counterplate shims and window handle spacers of grey polyamide
Screws for fixing rod to profile in stainless steel
Frame counterplate made of zinc plated steel
Micro-ventilation counterplate, anti-lift component and retractor (where applicable) made of die-cast zamak

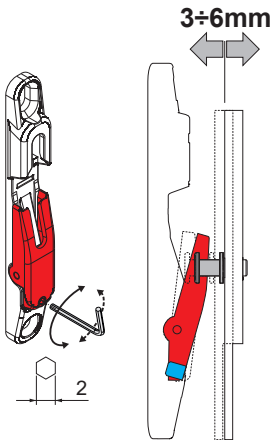
Micro-ventilation counterplate



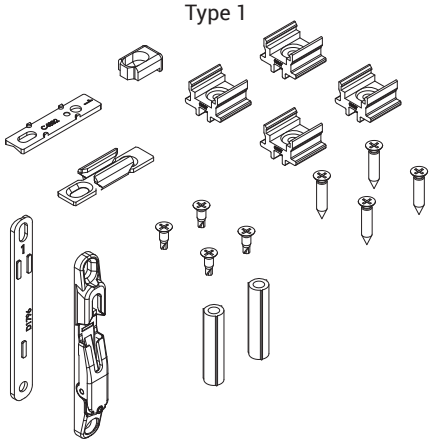
Micro-ventilation



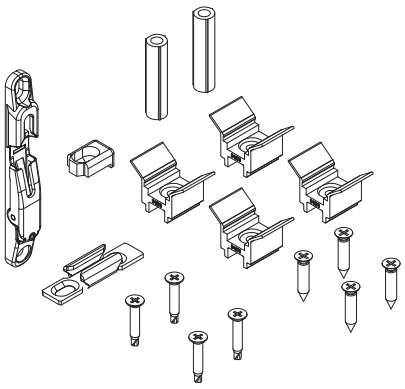
Micro-ventilation adjustment



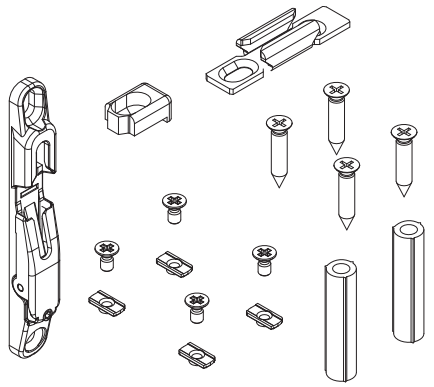
Type 1



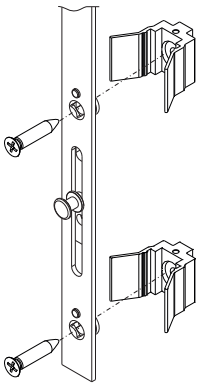
Type 2



Type 3



Direct fixing (A1)



Item code	Description	Rod for matching	Type	Rod fixing to sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06344	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	1	Direct (A1)	X				8
06345	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	1	Direct (A1)	X				8
06346	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	2	Direct (A1)	X				8
06347	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	2	Direct (A1)	X				8
06348	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	1	Direct (A1)	X				8
06349	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	1	Direct (A1)	X				8
06354	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	1	Direct (A1)	X				8
06355	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	1	Direct (A1)	X				8
06356	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	2	Direct (A1)	X				8
06357	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	2	Direct (A1)	X				8
06358	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	2	Direct (A1)	X				8
06359	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	2	Direct (A1)	X				8
06364	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	1	Direct (A1)	X				8
06365	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	1	Direct (A1)	X				8
06366	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	1	Direct (A1)	X				8
06367	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	1	Direct (A1)	X				8
06368	Champion Plus Micro-ventilation FIXING KIT with 2 locking points	06334 - 06335 - 06337 - 06338	3	Direct (A1)	X				8
06369	Champion Plus Micro-ventilation FIXING KIT with 3 locking points	06336 - 06339 - 06340	3	Direct (A1)	X				8



CHAMPION PLUS CLOSING RODS

Functions

Complete system of multi-lock rods (1 to 3 points) for sliding windows or balcony-doors made of aluminium.

Online data sheet

Technical Features

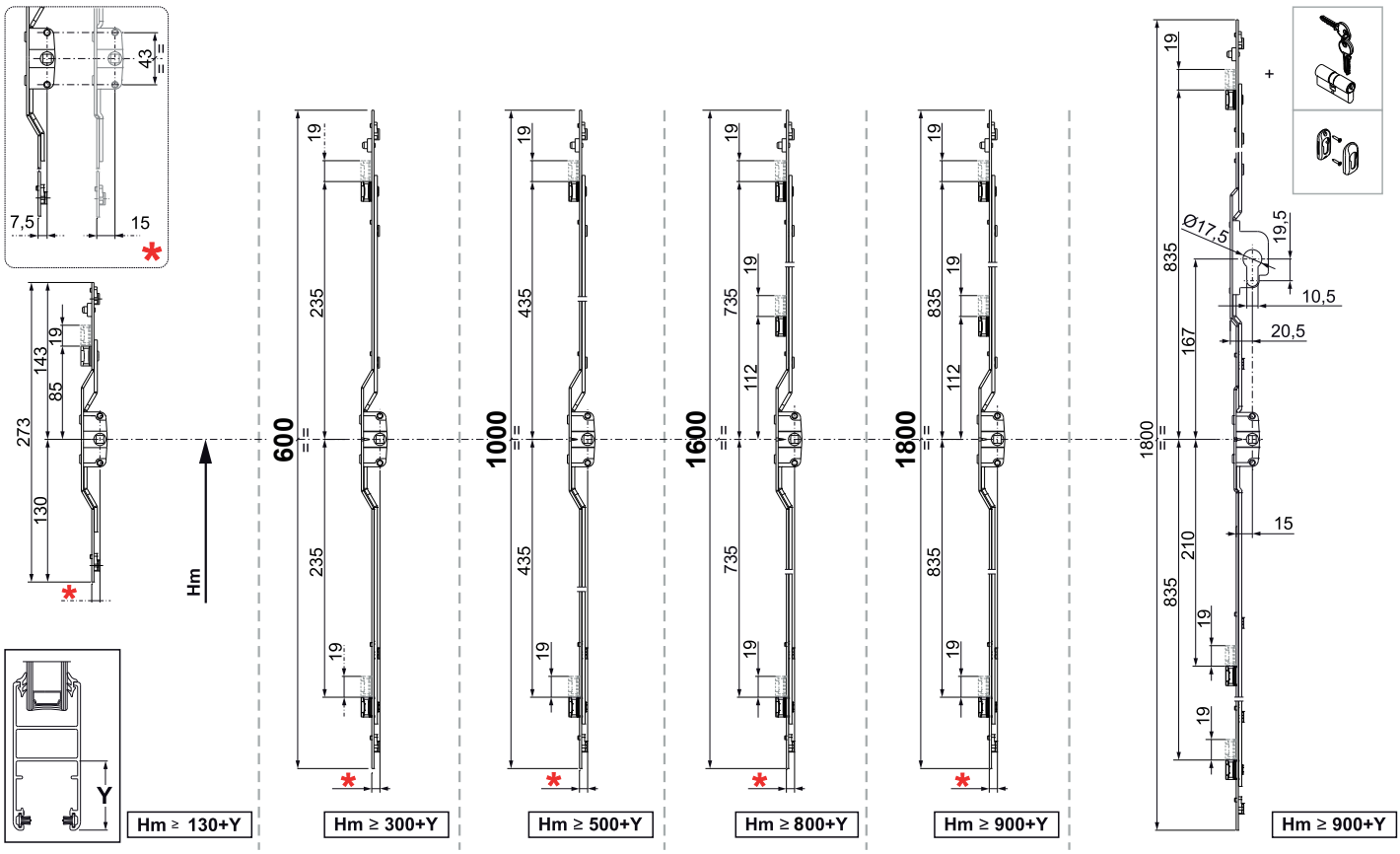
Three versions are available:
- Backset 7.5 mm (1 to 3 locking points)
- Backset 15 mm (1 to 3 locking points)
- Backset 15 mm with lock (3 locking points)

All the rods are operated by traditional window handles or recess handles equipped with a 7 mm square pin.
These multi-locks have 2 operating positions:
1) 0° CLOSED SASH
2) 90° OPEN SASH

Depending on the series used, the rods have to be matched with specific coupling kits designed to adapt them to the various shapes of the profile.
The strength of the mushroom nib is greater than 150 kg.
The Champion Plus fastening rods with 2 and 3 locking points are compatible with the incorrect movement safety device art. 02770, which prevents the window handle from returning to the closed position with the sash open.

Materials

Zinc-plated steel lift-proof pin and rods
Box for rotor and nibs in zamak



Item code	Description	Backset	Lock	Incorrect Movement Safety Device Compat-ibility	Length	Window handle height	Locking points	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
0272001	CHAMPION PLUS ROD	7,5	NO	NO	270	> 130 + Y	1	X				4
0272101	CHAMPION PLUS ROD	7,5	NO	YES	600	> 300 + Y	2	X				4
0272201	CHAMPION PLUS ROD	7,5	NO	YES	1000	> 500 + Y	2	X				4
0630901	CHAMPION PLUS ROD	7,5	NO	Yes	1600	> 800 + Y	3	X				4
0272301	CHAMPION PLUS ROD	7,5	NO	YES	1800	> 900 + Y	3	X				4
0272401	CHAMPION PLUS ROD	15	NO	NO	270	> 130 + Y	1	X				4
0272501	CHAMPION PLUS ROD	15	NO	YES	600	> 300 + Y	2	X				4
0272601	CHAMPION PLUS ROD	15	NO	YES	1000	> 500 + Y	2	X				4
0631001	CHAMPION PLUS ROD	15	NO	YES	1600	> 800 + Y	3	X				4
0272701	CHAMPION PLUS ROD	15	NO	YES	1800	> 900 + Y	3	X				4
0272801	CHAMPION PLUS ROD WITH LOCK	15	YES	YES	1800	> 900 + Y	3	X				4



CHAMPION PLUS FIXING KIT

Functions

The fixing kit is necessary to correctly and durably apply a Champion rod in a specific aluminium sliding system and to obtain the micro-air circulation function.

Online data sheet

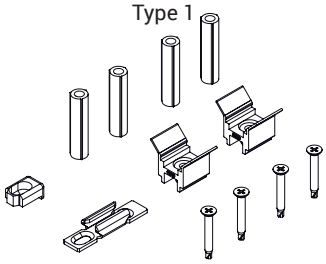
Technical Features

The Champion Plus fixing kit with micro-ventilation is available in 3 versions:
• for 1 point multi-lock
• for 2 point multi-lock
• for 3 point multi-lock
The Champion Plus fixing kit usually includes all those components necessary to apply the fastening rod in a specific aluminium sliding system.
These kits therefore generally include:
• Shims to adapt the rod to the sash profile
• Frame counterplates
• Frame counterplate adjustment shims
• Lift-proof component
• Fixing screws
• Window handle spacer tubes
The rod adjustment shims snap into place, facilitating hardware installation operations.
Depending on the sliding system used, these adapters provide different fixing systems:
• direct to the profile, in which the screw grips directly in the sash profile
• with expansion (patented by Giesse) in which the adapter expands and anchors to the sash profile without the need for drilling

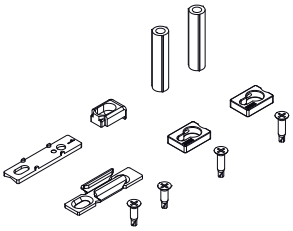
Materials

Shims for adapting the rod to the profile, counterplate shims and window handle spacers of grey polyamide
Screws for fixing rod to profile in stainless steel
Frame counterplate made of zinc plated steel
Anti-lift component and retractor (where applicable) made of die-cast zamak

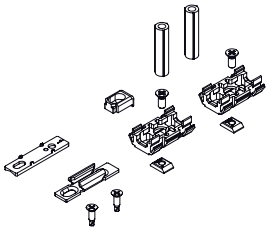
Type 1



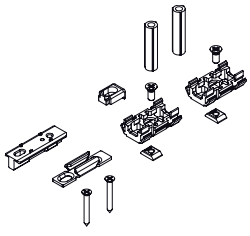
Type 2



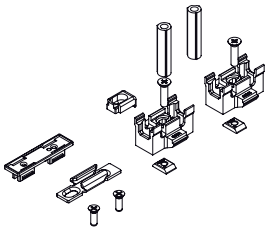
Type 3



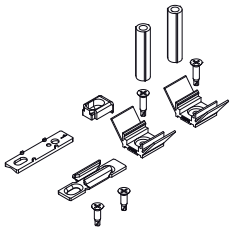
Type 4



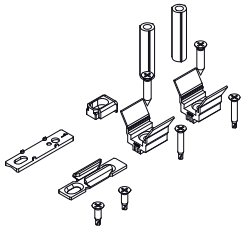
Type 5



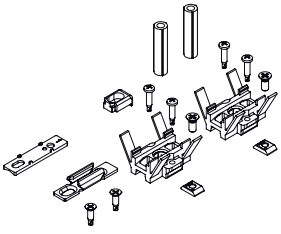
Type 6



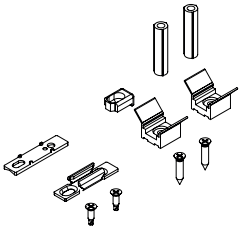
Type 7



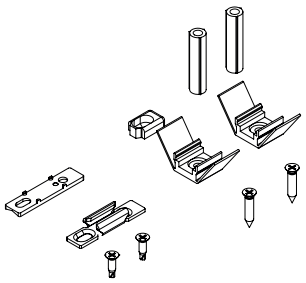
Type 8



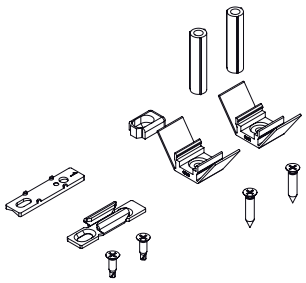
Type 9



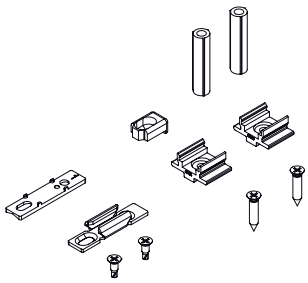
Type 10



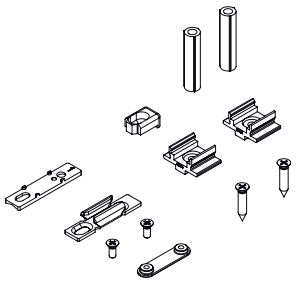
Type 11



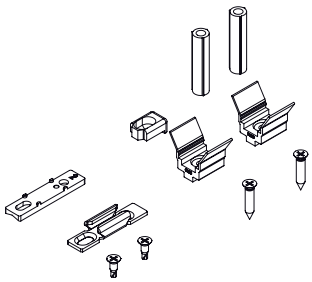
Type 12



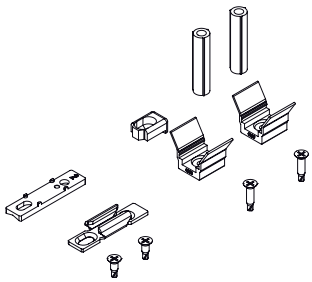
Type 13



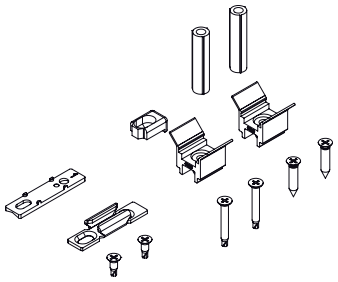
Type 14



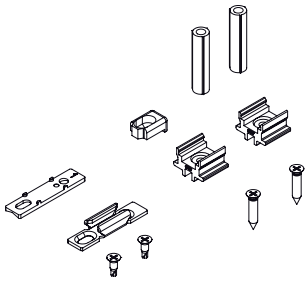
Type 15



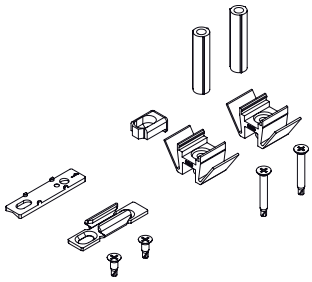
Type 16



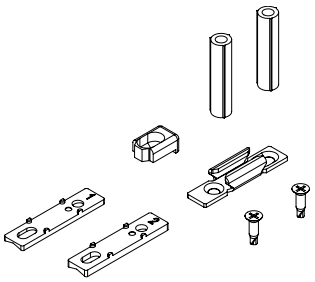
Type 17



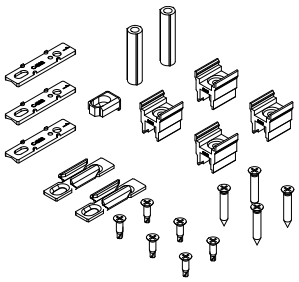
Type 18



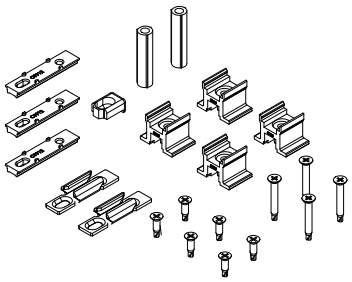
Type 19



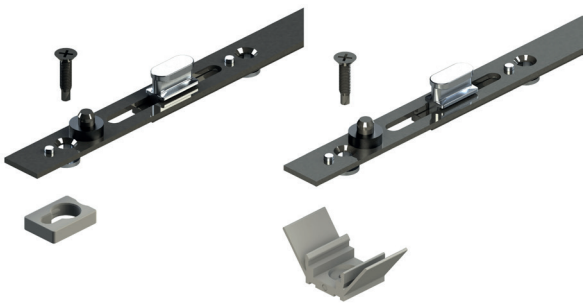
Type 20



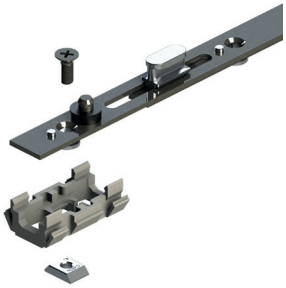
Type 21



Direct fixing (A1)



Expansion fixing (A2)



CHAMPION PLUS MULTILOCK

Item code	Description	Rod for matching	Type	Rod fixing to sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06040	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	20	Direct (A1)	X				8
06044	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	15	Direct (A1)	X				8
06045	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	15	Direct (A1)	X				8
06046	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	21	Direct (A1)	X				8
06047	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	21	Direct (A1)	X				8
06048	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	20	Direct (A1)	X				8
06112	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	20	Direct (A1)	X				8
06113	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	20	Direct (A1)	X				8
06231	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	1	Direct (A1)	X				8
06232	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	1	Direct (A1)	X				8
06233	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	1	Direct (A1)	X				8
06301	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	2	Direct (A1)	X				8
06302	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	2	Direct (A1)	X				8
06303	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	2	Direct (A1)	X				8
06311	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	3	Expansion fixing (A2)	X				8
06312	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	3	Expansion fixing (A2)	X				8
06313	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	3	Expansion fixing (A2)	X				8
06321	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	4	Expansion fixing (A2)	X				8
06322	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	4	Expansion fixing (A2)	X				8
06323	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	4	Expansion fixing (A2)	X				8
06325	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	9	Direct (A1)	X				8
06326	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	9	Direct (A1)	X				8
06331	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	5	Expansion fixing (A2)	X				8
06332	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	5	Expansion fixing (A2)	X				8
06333	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	5	Expansion fixing (A2)	X				8
06341	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	6	Direct (A1)	X				8
06342	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	6	Direct (A1)	X				8
06343	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	6	Direct (A1)	X				8
06351	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	7	Direct (A1)	X				8
06352	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	7	Direct (A1)	X				8
06353	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	7	Direct (A1)	X				8
06361	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	8	Expansion fixing (A2)	X				8
06362	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	8	Expansion fixing (A2)	X				8
06363	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	8	Expansion fixing (A2)	X				8
06371	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	2	Direct (A1)	X				8
06372	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	2	Direct (A1)	X				8
06373	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	2	Direct (A1)	X				8

Item code	Description	Rod for matching	Type	Rod fixing to sash	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
06381	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	10	Direct (A1)	X				8
06382	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	10	Direct (A1)	X				8
06383	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	10	Direct (A1)	X				8
06391	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	11	Direct (A1)	X				8
06392	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	11	Direct (A1)	X				8
06393	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	11	Direct (A1)	X				8
06421	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	12	Direct (A1)	X				8
06422	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	12	Direct (A1)	X				8
06423	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	12	Direct (A1)	X				8
06431	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	13	Direct (A1)	X				8
06432	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	13	Direct (A1)	X				8
06433	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	13	Direct (A1)	X				8
06441	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	14	Direct (A1)	X				8
06442	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	14	Direct (A1)	X				8
06443	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	14	Direct (A1)	X				8
06451	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	15	Direct (A1)	X				8
06452	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	15	Direct (A1)	X				8
06453	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	15	Direct (A1)	X				8
06461	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	16	Direct (A1)	X				8
06462	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	16	Direct (A1)	X				8
06463	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	16	Direct (A1)	X				8
06471	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	17	Direct (A1)	X				8
06472	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	17	Direct (A1)	X				8
06473	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	17	Direct (A1)	X				8
06481	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	18	Direct (A1)	X				8
06482	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	18	Direct (A1)	X				8
06483	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	18	Direct (A1)	X				8
06491	FIXING KIT for Champion Plus with 1 locking point	02720 - 02724	19	Sash side adapters and fixing screws not included in the kit	X				8
06492	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	19	Sash side adapters and fixing screws not included in the kit	X				8
06493	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	19	Sash side adapters and fixing screws not included in the kit	X				8
06792	FIXING KIT for Champion Plus with 2 locking points	02721 - 02722 - 02725 - 02726	20	Direct (A1)	X				8
06793	FIXING KIT for Champion Plus with 3 locking points	02723 - 02727 - 02728 - 06309 - 06710	20	Direct (A1)	X				8



INCORRECT MOVEMENT SAFETY DEVICE

Functions

Device that prevents, with the sash open, bringing the hardware into the closed position.

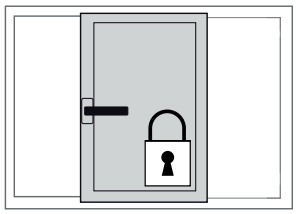
Online data sheet

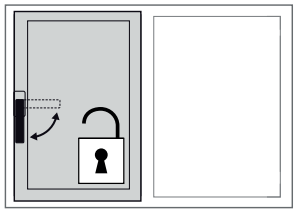
Technical Features

Easily fitted on all Champion Plus Multilocks with 2 or 3 locking points.
Acts as protection for the hardware preventing accidental impact between the nibs and counterplates.
Prevents the user of the window from inadvertently putting the window handle into the closed position when the sash is open.
Only when the sash is closed and then moved next to the frame will the device unlock and allow turning the pull handle and subsequently closing the sash.
It can be used in combination with all Champion Plus rods without micro-ventilation.
Compatible with Champion Plus rods with micro-ventilation only with cremone locked at 90°.

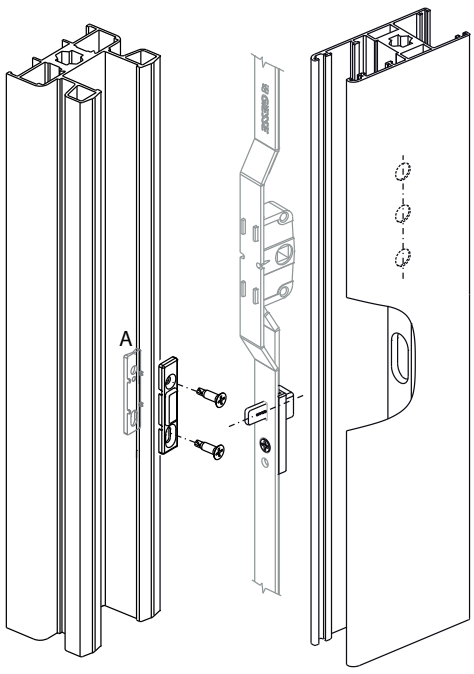
Materials

Incorrect movement safety device body and button made of die-cast zamak
Return spring made of harmonic steel
Stainless steel fixing screw
Frame striker of polyamide





A = contained in the Champion Plus fixing kit



Item code	Description	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02770	INCORRECT MOVEMENT SAFETY DEVICE	0272101 - 0272201 - 0272301 - 0272501 - 0272601 - 0272701 - 0272801 - 0630901 - 0631001	X				8



PRIMA CHAMPION PLUS WINDOW HANDLE

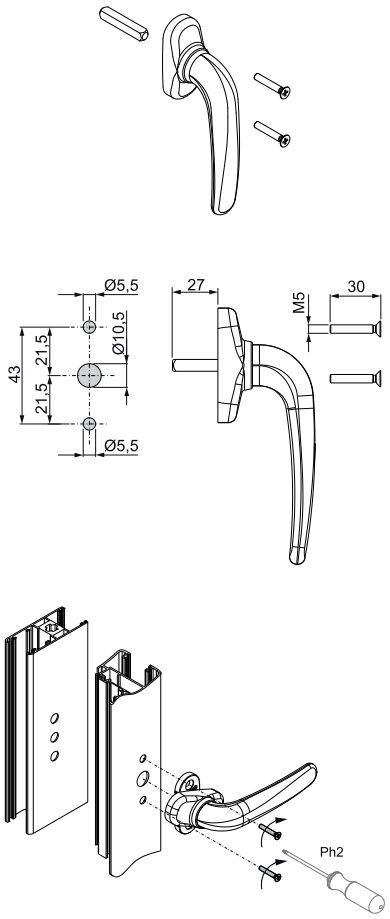
Functions
Window handle that is applied on the main sash of a sliding casement.

Online data sheet

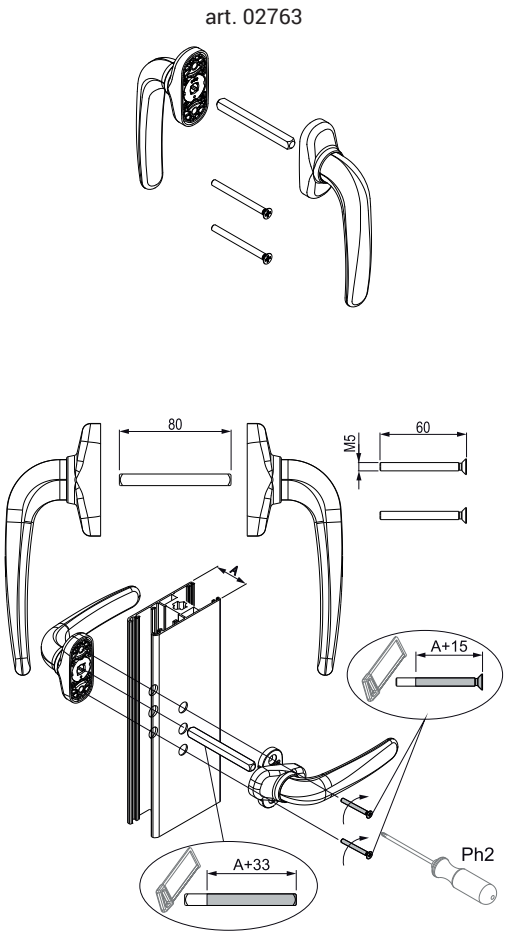
Technical Features
Two versions are available, single and double (balcony doors), the Prima window handle provides easy operation of the Champion Plus multi-lock.
Equipped with a 7 mm square pin and a positioner for stopping the handle at 0° and 180°.

Materials
Handle, plate-cover and rotor in die-cast zamak
Square pin and screws in stainless steel
Polyamide plate

art. 02762



art. 02763



Item code	Description	PROFILE CROSS - SECTION	Applicable	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02762	PRIMA WINDOW HANDLE	C001-C002-C003-C004-C005-C006-C007-C009-C010-C011-C012-C013-C014-C015-C016-C017-P001-P002-P003-P004-P005-P006-P007-P008-P009-P010	internal	X		X	X	5
02763	DOUBLE PRIMA WINDOW HANDLE	-	internal/external	X		X	X	5



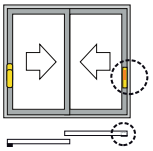
RECESSED WINDOW HANDLE

Functions
Window handle that is applied on the secondary sash of a sliding casement.

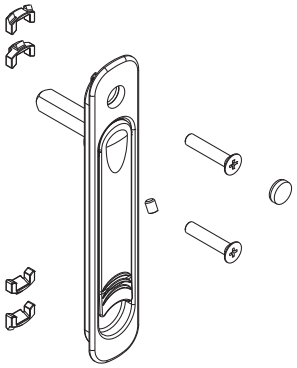
Online data sheet

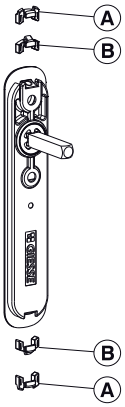
Technical Features
Not being top-hung, it allows overlapping the sashes.
Equipped with a 7 mm square pin and a positioner for stopping the handle at 0° and 180°.
The product has its own system for fixing to the stand-alone profile compared to the M5x25 screws fastening the window handle to the internal mechanism.
Depending on the shape of the sash profile, the manufacturer will decide on how to prepare the recessed window handle with parts A or B so that the product is anchored in an effective and long-lasting manner.

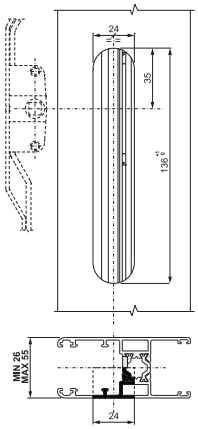
Materials
External body, pull handle and fixing components made of die-cast zamak
Square pin and fixing screws in zinc plated steel
Hostaform snap disk
Locking washer made of harmonic steel



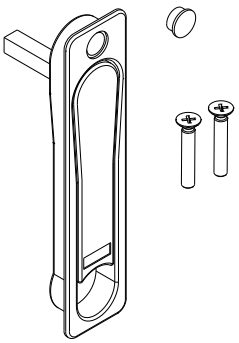
art. 02760

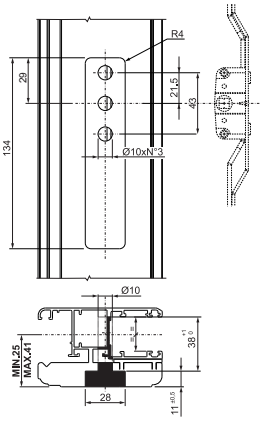


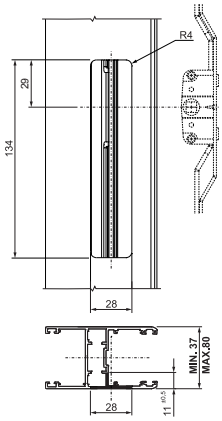




art. 02761







Item code	Description	Applicable	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02760	RECESSED WINDOW HANDLE	internal		X		X	X	8
02761	RECESSED WINDOW HANDLE	internal	Alu/wood or Alu profiles > 37 mm	X		X	X	8



EXTERNAL RECESS PULL HANDLE

Functions

The external recess pull handle has the function of pulling a sliding sash and works in conjunction with a window handle on the inside of the casement.

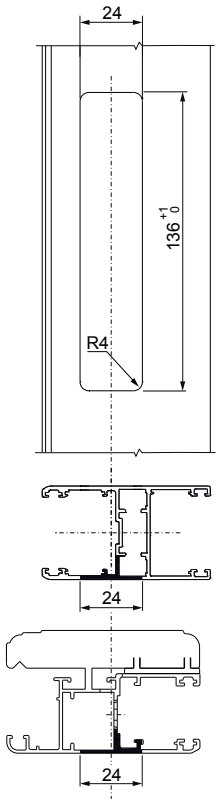
Online data sheet

Technical Features

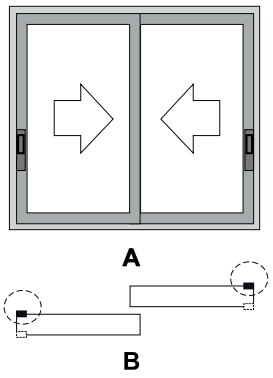
The external recess pull handle has the function of pulling a sliding sash and works in conjunction with a window handle on the inside of the casement.
This article is fitted externally and performs the function of pulling a sliding sash.
This product works in combination with the recess window handle or in combination with the Prima window handle.
The metric screws supplied with the window handle for the inside are screwed into the external recess handle, joining the 2 products with the profile

Materials

External body and lever made of die-cast zamak
Zinc plated steel screws



A: out
B: in



Item code	Description	Applicable	Can be combined with	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02764	EXTERNAL RECESS PULL HANDLE	external	02760-02761-02762	X		X	X	8



BLIND INTERNAL RECESS PULL HANDLE

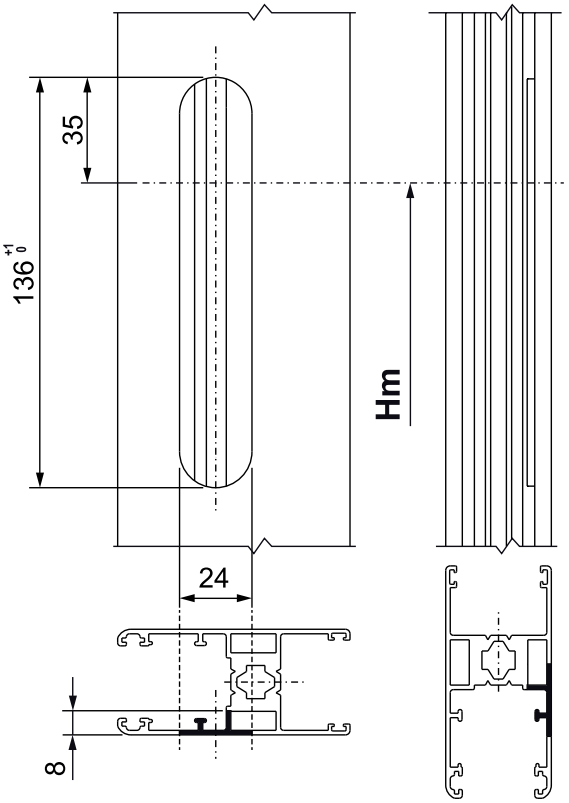
Functions

Blind recess handle to be applied on the opposite sash which has the sole function of drawing.

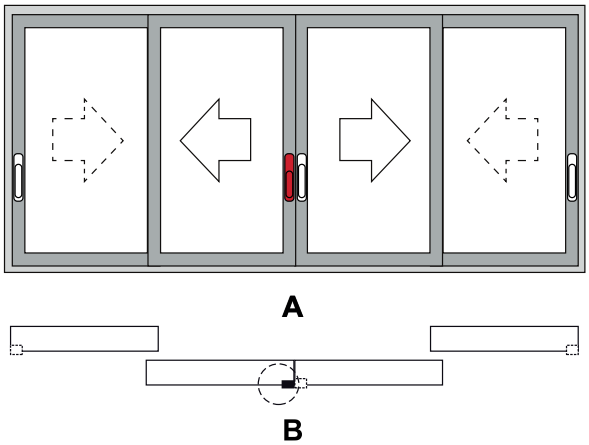
Online data sheet

Materials

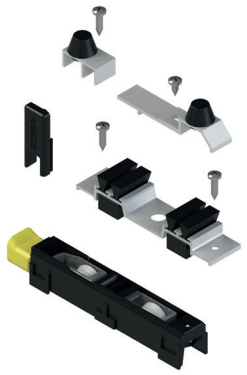
Die-cast zamak coupling teeth and body
Stainless steel locking grub screw



A: out
B: in



Item code	Description	Applicable	Notes	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02765	BLIND INTERNAL RECESS PULL HANDLE	internal	Opposing sashes	X		X	X	8



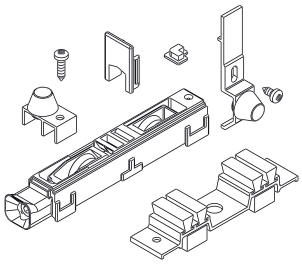
2-SASH WINDOW ASSEMBLY KIT

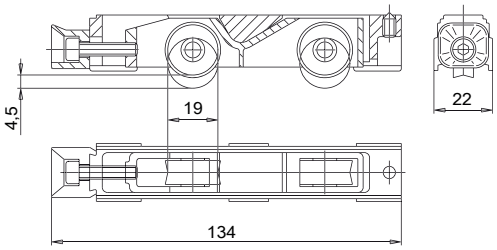
Functions

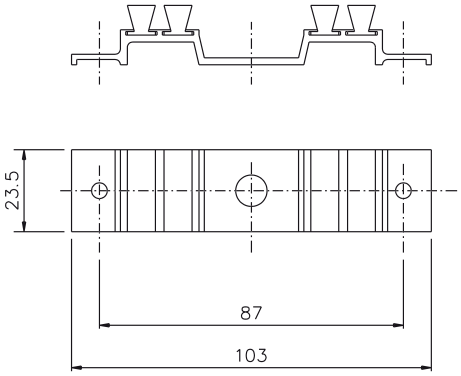
Set of necessary accessories to complete the assembly of a window or door with two sliding leafs made of aluminium, grouped together in a single package.

Online data sheet

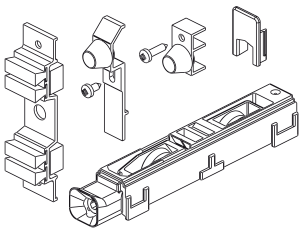
03106

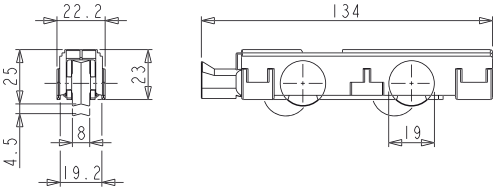


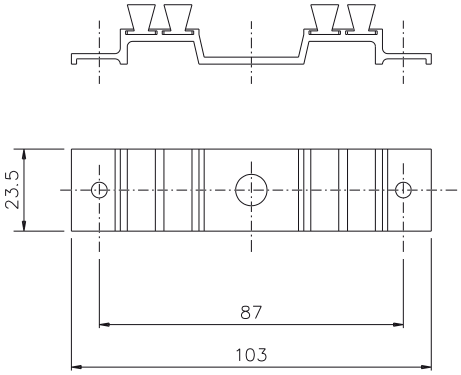




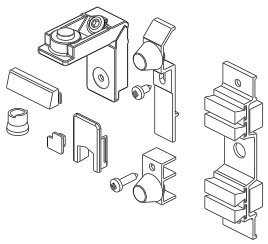
03108

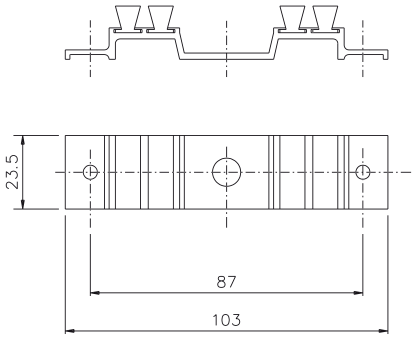




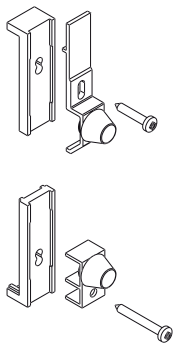


03114





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03106	2-SASH WINDOW ASSEMBLY KIT		X				5
03108	2-SASH WINDOW ASSEMBLY KIT		X				5
03114	2-SASH WINDOW ASSEMBLY KIT		X				10



BURGLAR-PROOF AND DAMPER PLUGS

Functions

Burglar-proof damper plugs, specifically designed for aluminium sliding doors and windows.

Online data sheet

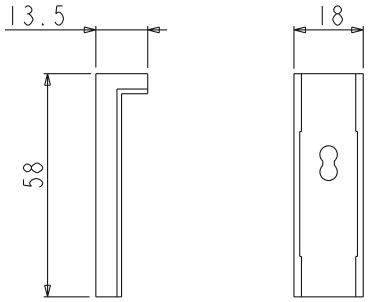
Technical features

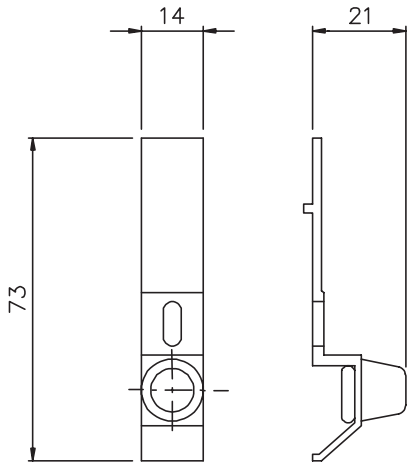
The longer lug fits to the top part.
The protrusion must be located close to the top cross beam (about 2–3 mm away from it) so as to act as a burglar-proof device (to prevent the sash being removed).

Materials

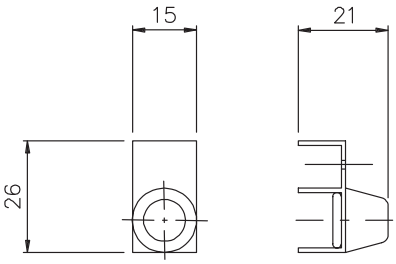
Shims in black polyamide
Damper body in anodised extruded aluminium
Rubber damper plugs
Zinc plated steel screws

Upper cap

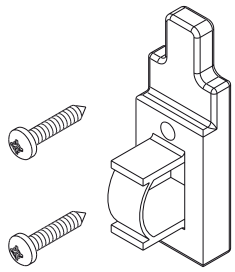




Lower cap



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02290	BURGLAR-PROOF AND DAMPER PLUGS		X				100



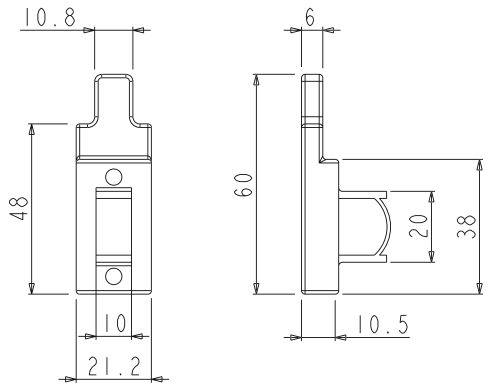
DAMPER PLUG

Functions
Window/door damper plug which dampens the impact of the sash when closing.

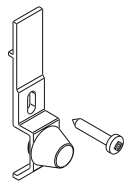
Online data sheet

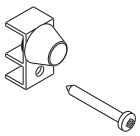
Technical features
The damper plug fits to the sash – locking side – both at the top and bottom.
The top plug also prevents the sash being forced upwards (anti-lift function).

Materials
Black polyamide
Zinc plated steel screws



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03145	DAMPER PLUG		X				100





BURGLAR-PROOF AND DAMPER PLUGS

Functions

Burglar-proof damper plugs, specifically designed for aluminium sliding doors and windows.

Online data sheet

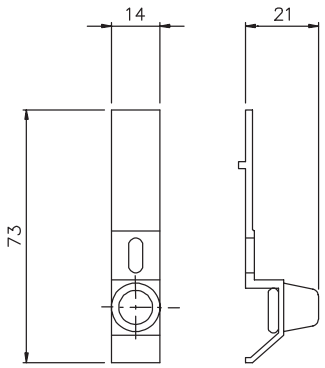
Technical features

The top aluminium part must be placed close to the upper cross beam to prevent the sash from being able to be removed (burglar-proof)

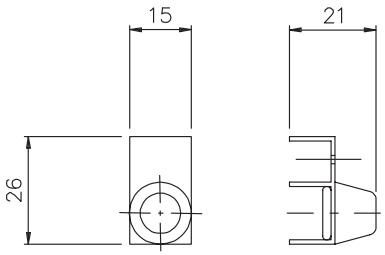
Materials

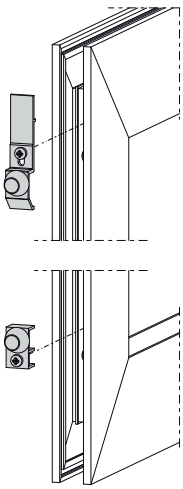
Stainless steel screws
Damper body in anodised extruded aluminium
Rubber damper plugs.

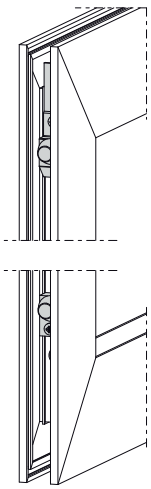
Upper cap

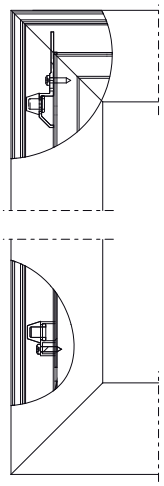


Lower cap

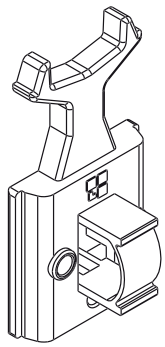








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03199X	BURGLAR-PROOF AND DAMPER PLUGS		X				200



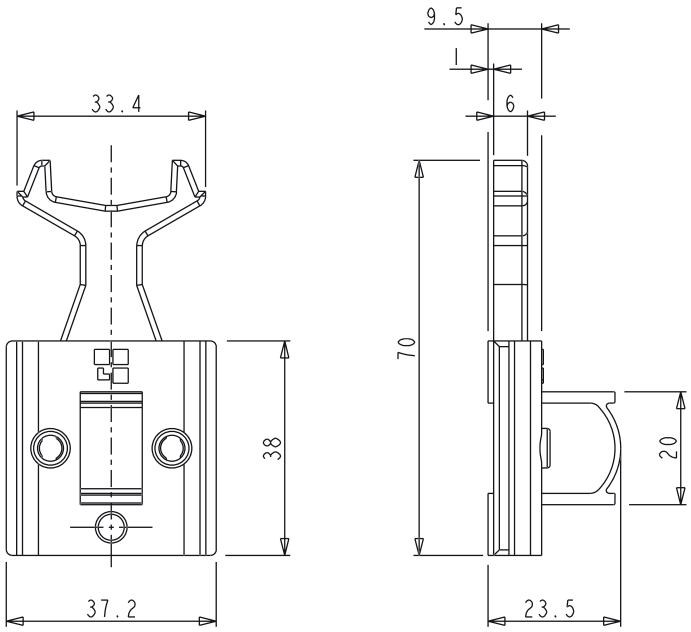
BURGLAR-PROOF AND DAMPER PLUGS

Functions
Plug with damping and burglar-proof functions.

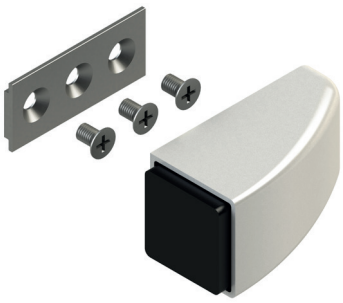
Online data sheet

Technical features
The plug is inserted on both the upper and lower parts of the sash upright in the channel and fixed by a contrast grubscrew.

Materials
Black polyamide cap
Stainless steel M5x10 grub screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03200	BURGLAR-PROOF AND DAMPER PLUGS		X				100



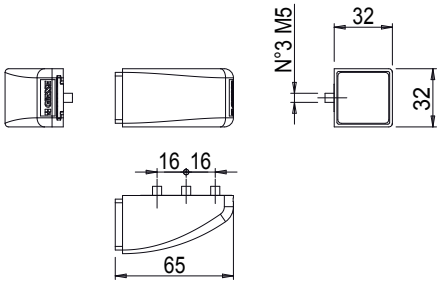
SASH STOP DEVICE

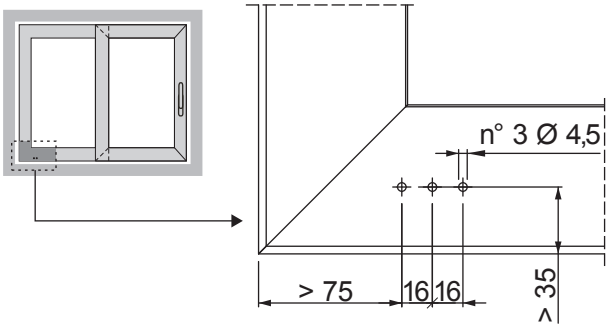
Functions
Device to apply on sliding profiles to stop the sash before it hurts the handle.

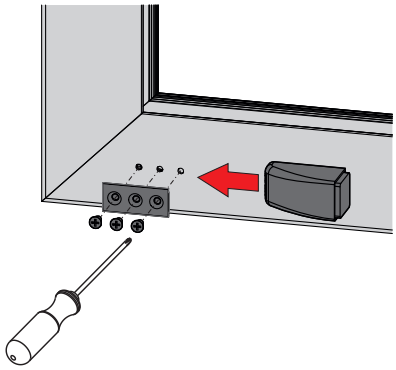
Online data sheet

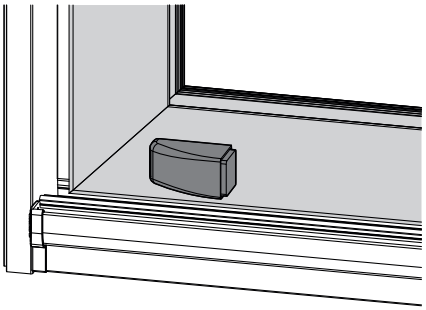
Technical Features
The sash stop device should be positioned on the lower transom. In case of special dimensions, it should be positioned even on the top transom to avoid the collision between the handle and the other sash.
The device is removable and allows the overlap of the sash.
Polyamide body available in white, grey and black.

Materials
Polyammide reinforced with fiber glass body
Aluminium plate
Foam rubber pad
Zinc plated steel screws



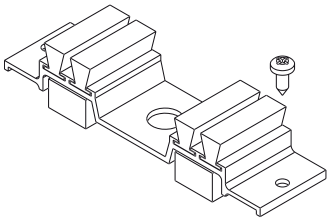






Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03978	SASH STOP DEVICE	Reversible	X				10





DUST-PROOF PLUG

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

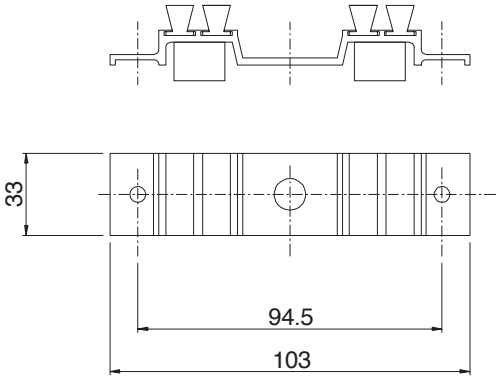
Online data sheet

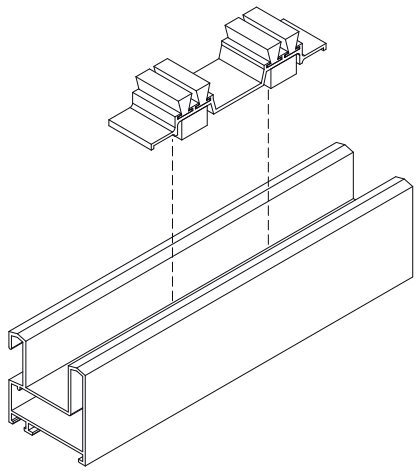
Technical features

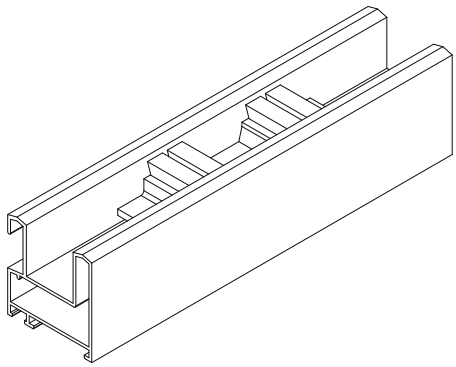
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

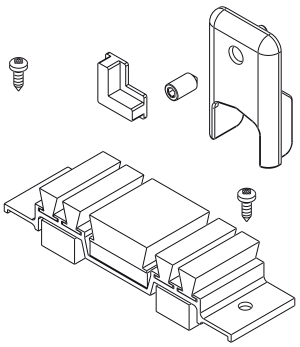
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01220	DUST-PROOF PLUG		X				50



MACHINING COVER

Functions

Package includes 4 central upright caps, 8 sash guide plugs and 2 dust-proof covers for a window or sliding door made of aluminium.

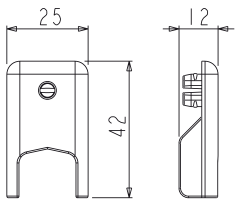
Online data sheet

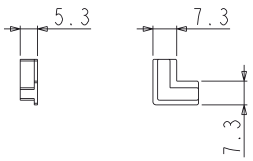
Technical features

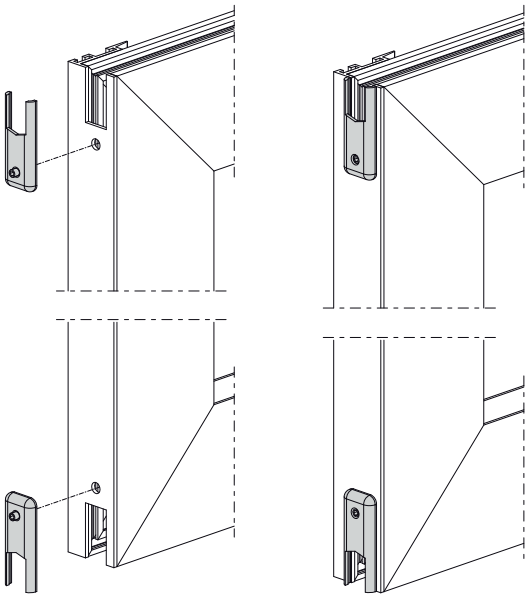
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The sash guiding plugs stabilize the sash and prevent the pulley from being able to come off the rail.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

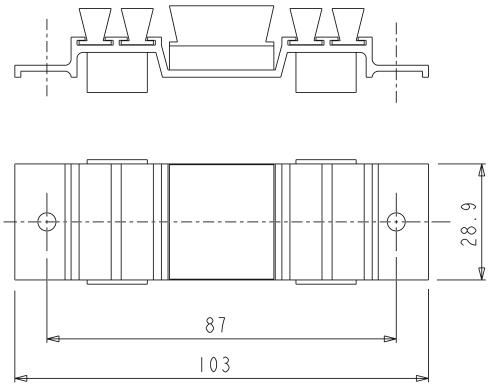
Materials

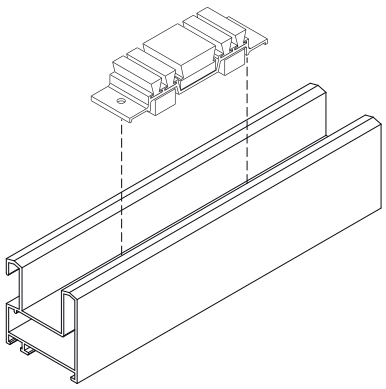
Black anodised extruded aluminium body
Screws and grub screws in zinc plated steel
Brushes and sponge in expanded EPDM
Cover for machining and sash guide in black polyamide



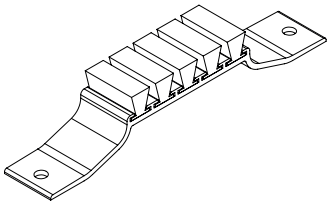








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01221	MACHINING COVER		X				100



DUST-PROOF PLUG

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

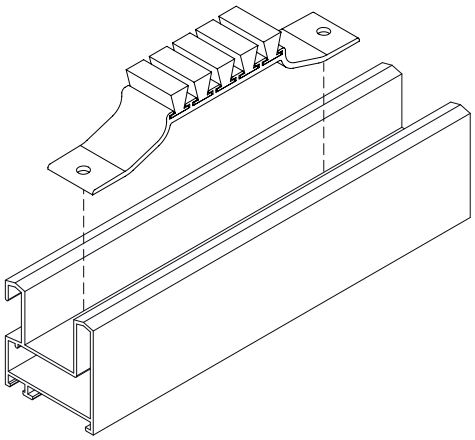
Online data sheet

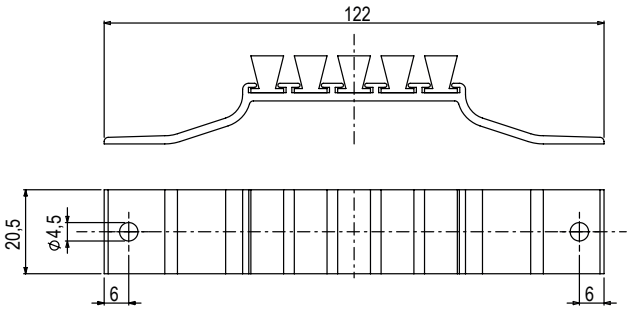
Technical features

The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

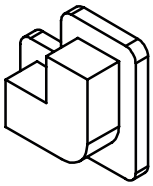
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01274	DUST-PROOF PLUG		X				100



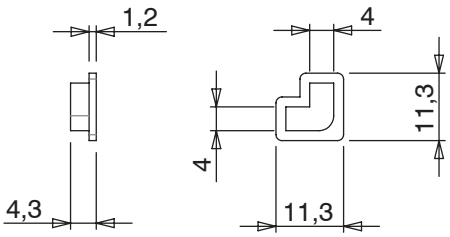
SASH-CENTRING PLUG

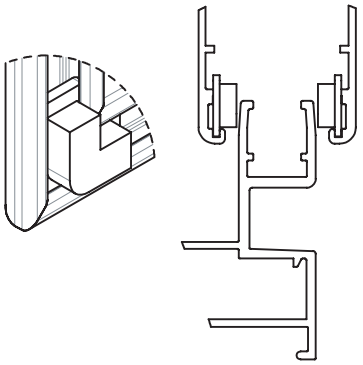
Functions
Component that enables keeping the sliding sash guided while sliding.

Online data sheet

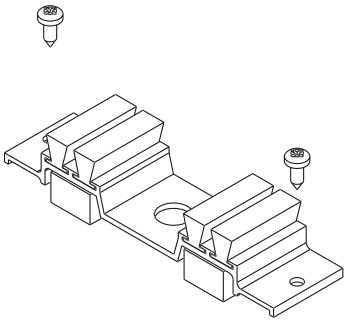
Technical features
The sash guiding plug stabilizes the sash and prevents the pulley from being able to come off the rail.

Materials
Black polyamide





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01275	SASH-CENTRING PLUG		X				200



DUST-PROOF PLUG

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

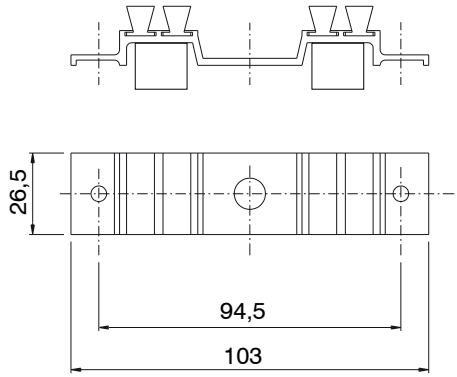
Online data sheet

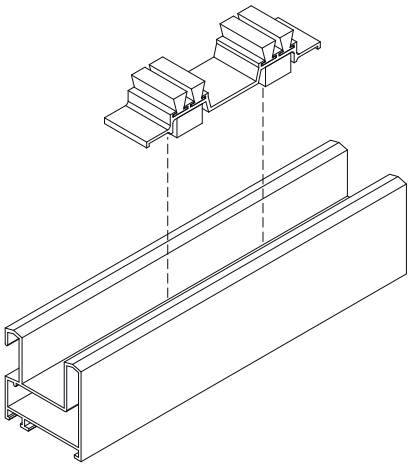
Technical features

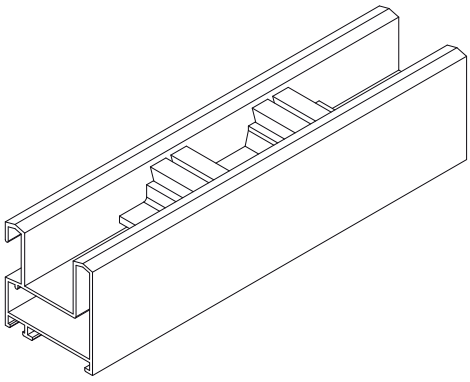
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

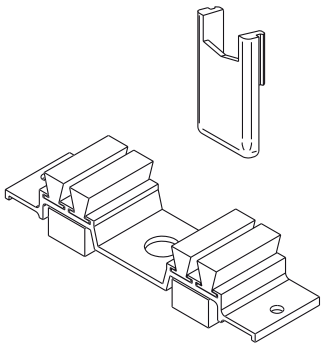
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02304	DUST-PROOF PLUG		X				100



DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

Functions

Package includes 4 central upright caps and 2 dust-proof covers for a window or sliding door made of aluminium.

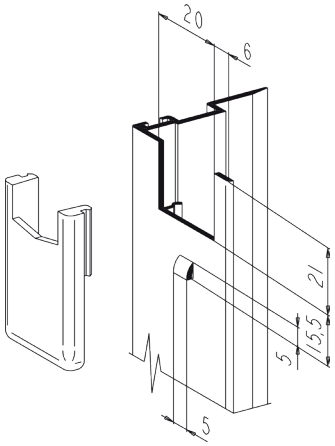
Online data sheet

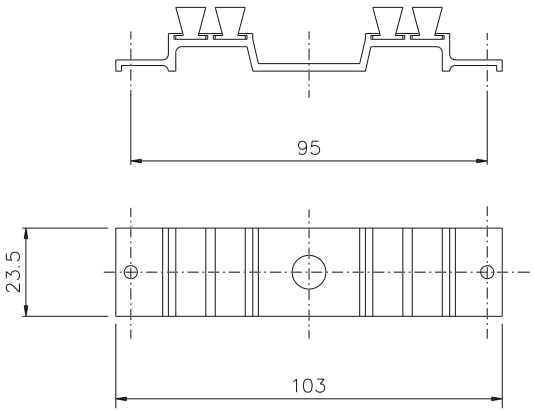
Technical features

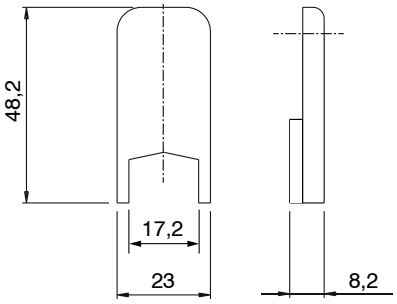
The machining caps cover the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

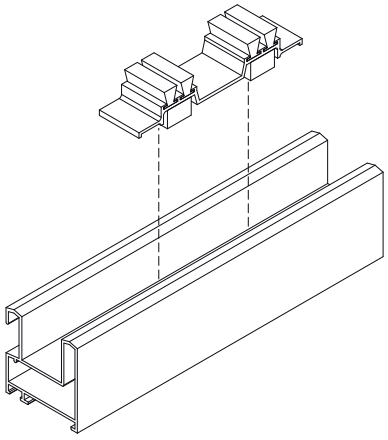
Materials

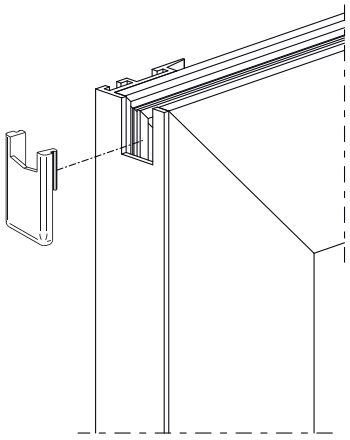
Black anodised extruded aluminium body
Brushes and sponge in expanded EPDM
Machining cover in black polyamide



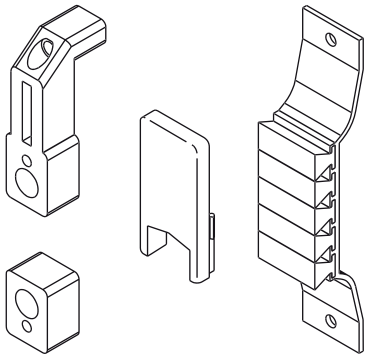








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03124	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100



DUST-PROOF GASKET AND UPRIGHT PLUGS KIT

Functions

Package includes 4 central upright caps, 2 pairs of damping covers and 2 dust-proof covers for a window or sliding door made of aluminium.

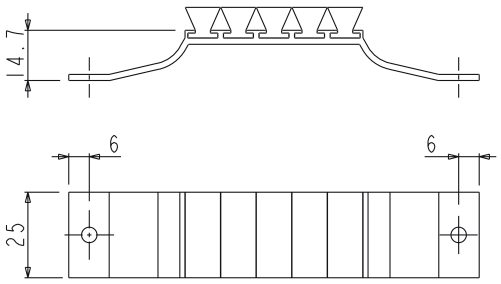
Online data sheet

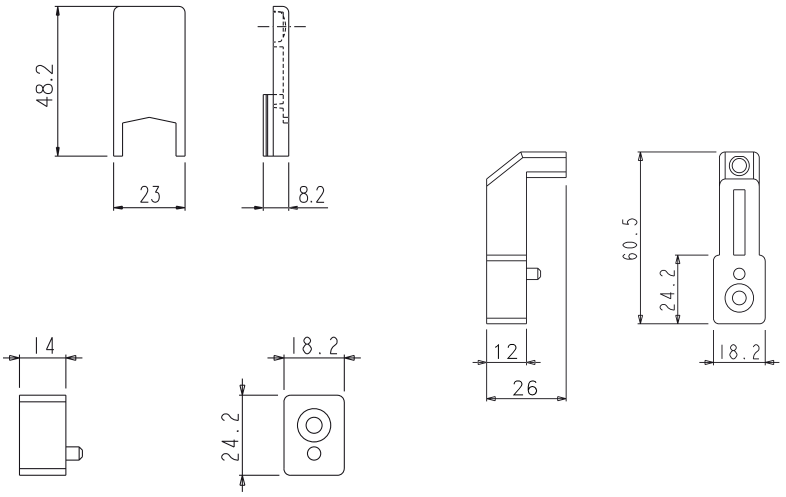
Technical features

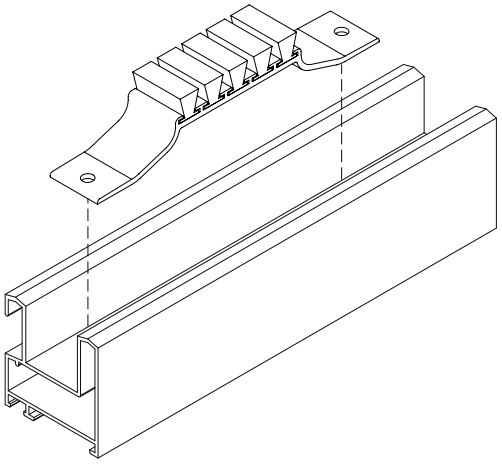
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

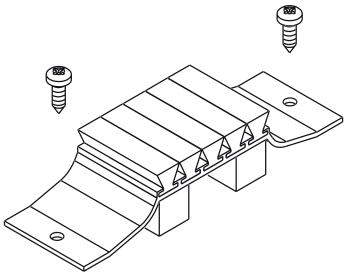
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining cover in black polyamide
Rubber damper plug







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03140	DUST-PROOF GASKET AND UP-RIGHT PLUGS KIT		X				10



DUST-PROOF PLUGS

Functions

Designed to prevent dust and water passing into the interior of the sliding door/window.

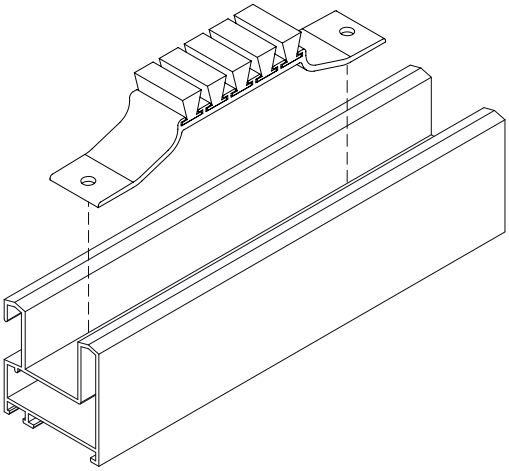
Online data sheet

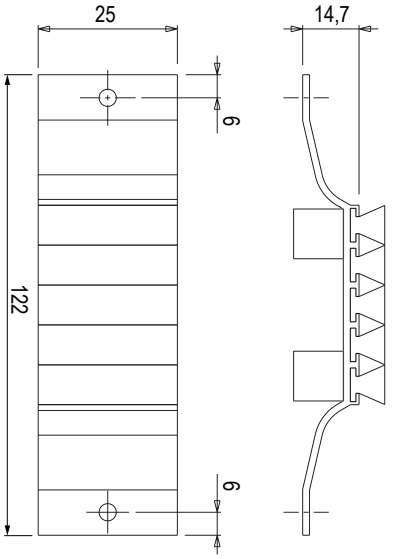
Technical features

The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

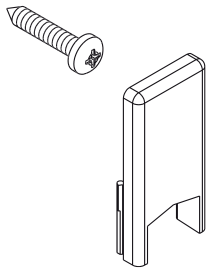
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03143	DUST-PROOF PLUGS		X				50



MACHINING COVERS

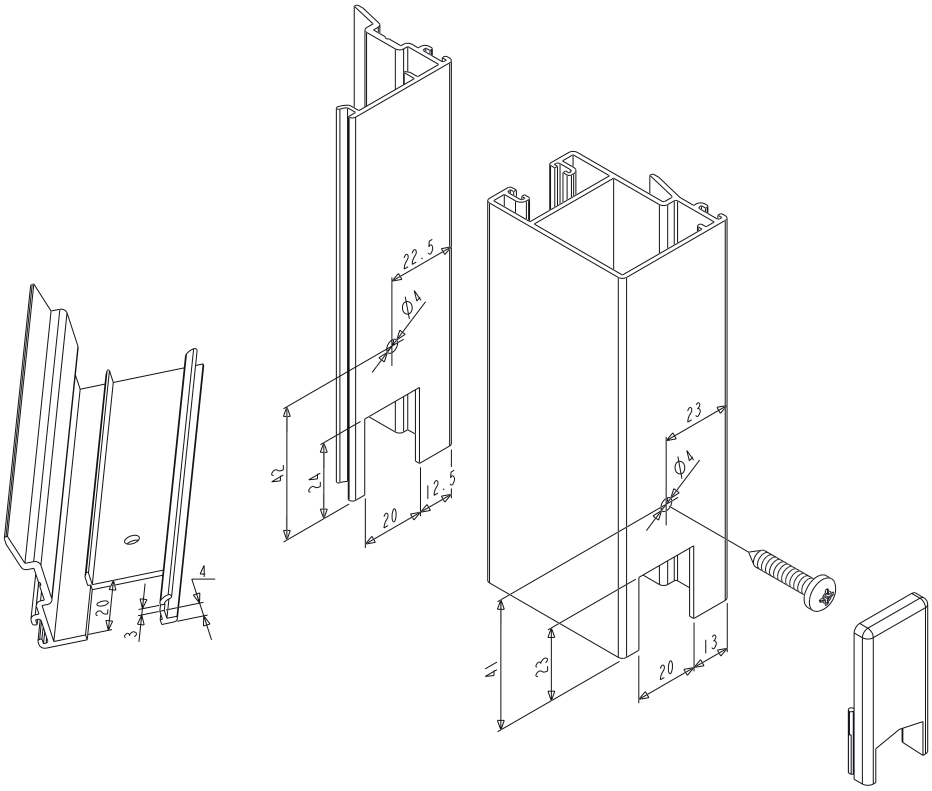
Functions

Cap covering the machining on the central upright of sliding sashes.
Fixing is by means of a self-tapping screw.

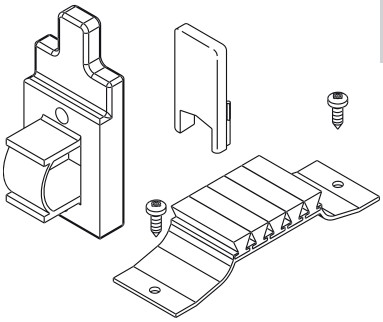
Online data sheet

Materials

Black polyamide cap
Zinc plated steel screw



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03144	MACHINING COVERS		X				50



DUST-PROOF GASKET AND UPRIGHT PLUGS KIT

Functions

Package includes 4 central upright caps, 2 pairs of damping covers and 2 dust-proof covers for a window or sliding door made of aluminium.

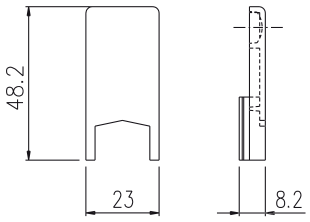
Online data sheet

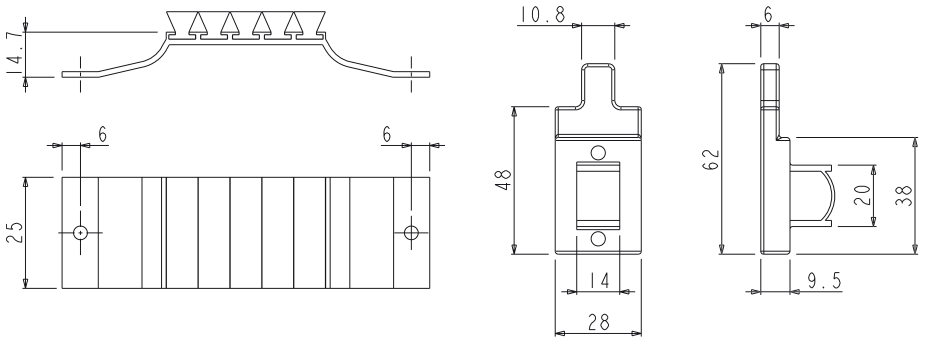
Technical features

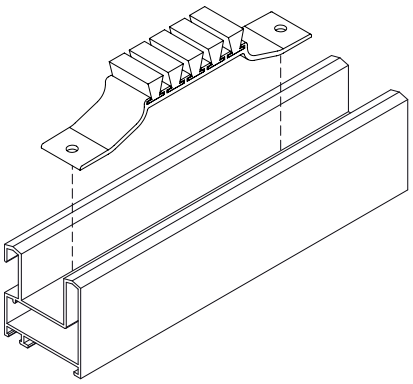
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

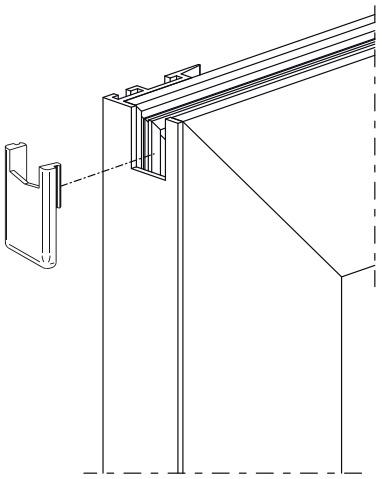
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining and damper plug in black polyamide

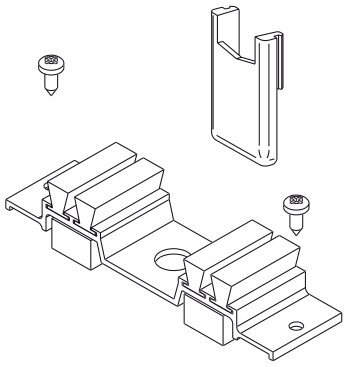








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03150	DUST-PROOF GASKET AND UP-RIGHT PLUGS KIT		X				10



DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

Functions

Package includes 4 central upright caps and 2 dust-proof covers for a window or sliding door made of aluminium.

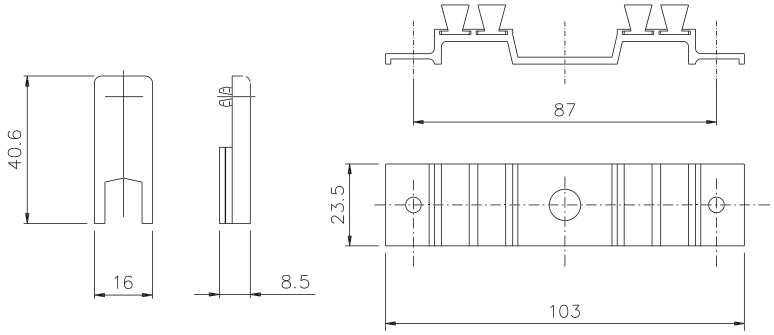
Online data sheet

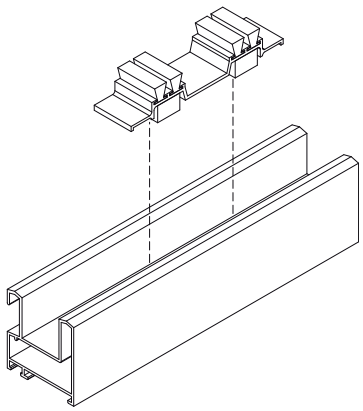
Technical features

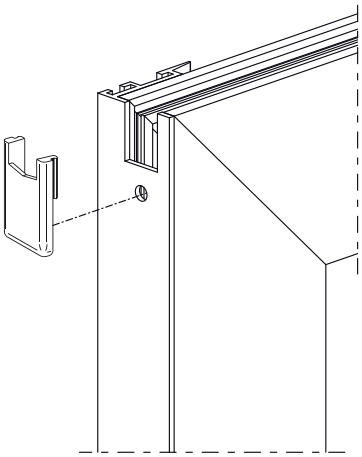
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

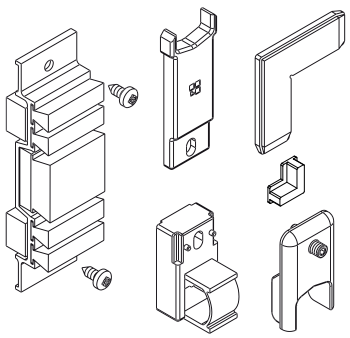
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Machining cover in black polyamide.







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03166	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100



2-SASH SLIDER PLUGS KIT

Functions

Package includes 4 central upright caps, 2 pairs of damping covers, 16 alignment corner joints and 2 dust-proof covers for a window or sliding door made of aluminium.

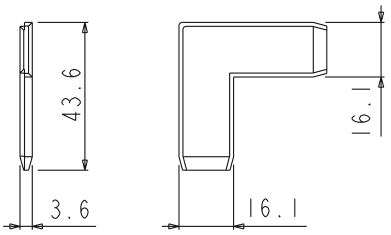
Online data sheet

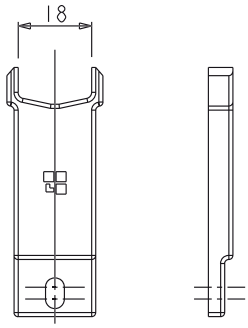
Technical features

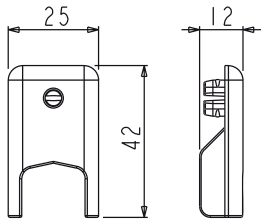
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The damper plugs, in addition to having a burglar-proof function, prevent the sash from slamming against the frame when closing.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.
The alignment brackets allow strengthening the junction of the fins.

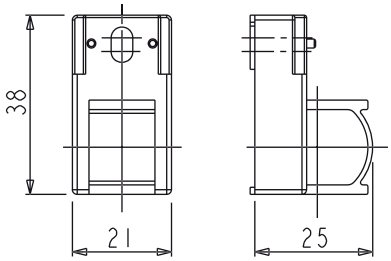
Materials

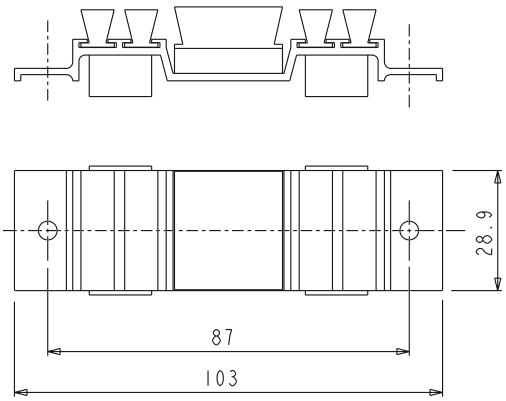
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM
Cover for machining, alignment corner joint and damper in black polyamide.

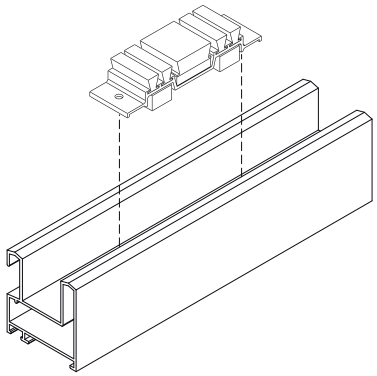




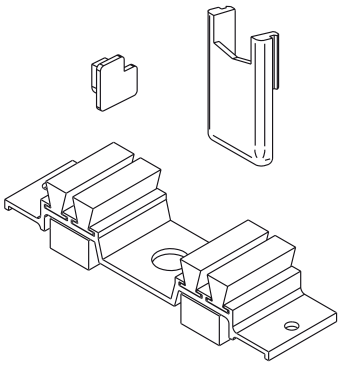








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03185N	2-SASH SLIDER PLUGS KIT		X				50



DUST-PROOF GASKET AND UPRIGHTS PLUGS KIT

Functions

Package includes 4 central upright caps, 8 sash guide plugs and 2 dust-proof covers for a window or sliding door made of aluminium.

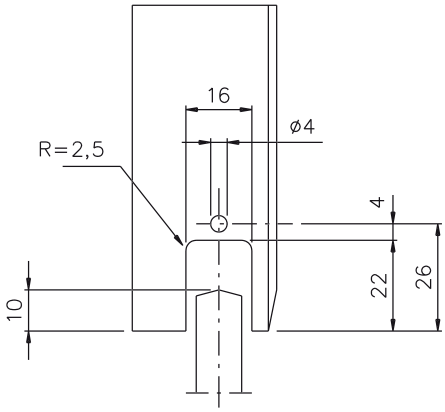
Online data sheet

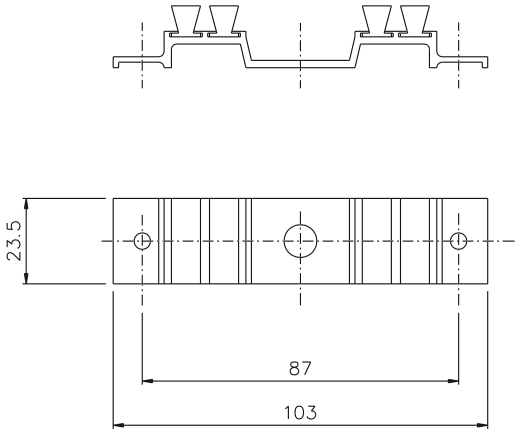
Technical features

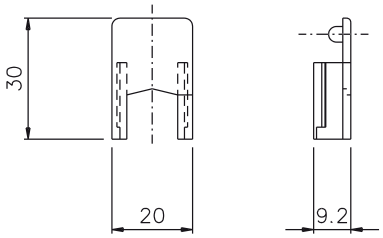
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The sash guiding plugs stabilize the sash and prevent the pulley from being able to come off the rail.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

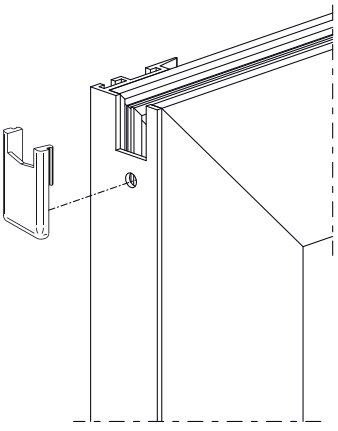
Materials

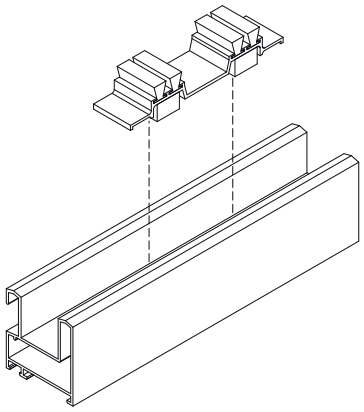
Black anodised extruded aluminium body
Brushes and sponge in expanded EPDM
Cover for machining and sash guide in black polyamide

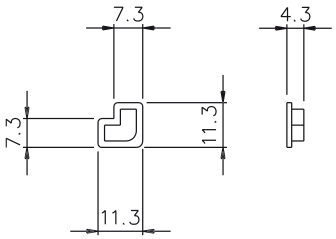




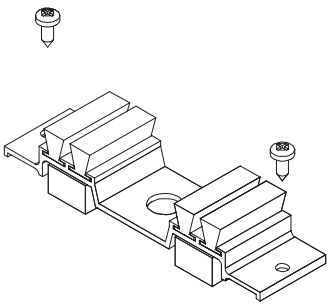








Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03194	DUST-PROOF GASKET and UPRIGHT PLUGS KIT		X				100



DUST-PROOF PLUG

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

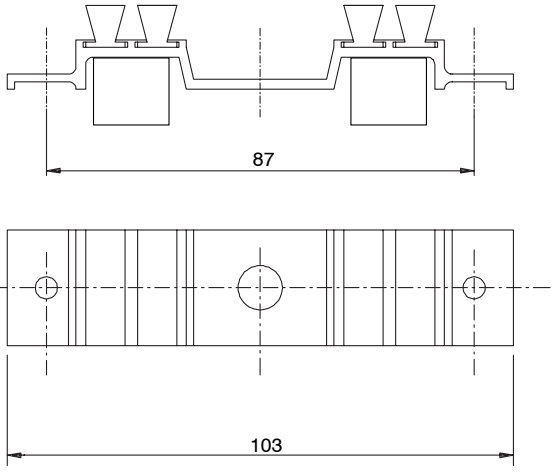
Online data sheet

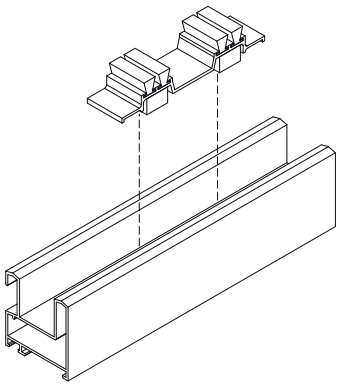
Technical features

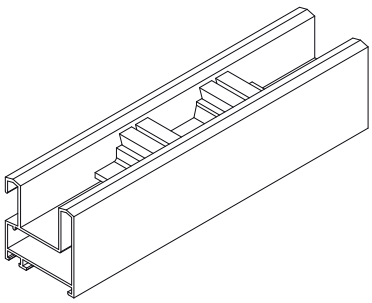
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

Materials

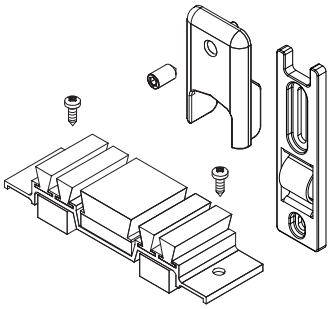
Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03314	DUST-PROOF PLUG	L= 34 mm	X				200



2-SASH SLIDER KIT

Functions

Package includes 4 central upright caps, 2 dust-proof covers and a damping cover for a window or sliding door made of aluminium.

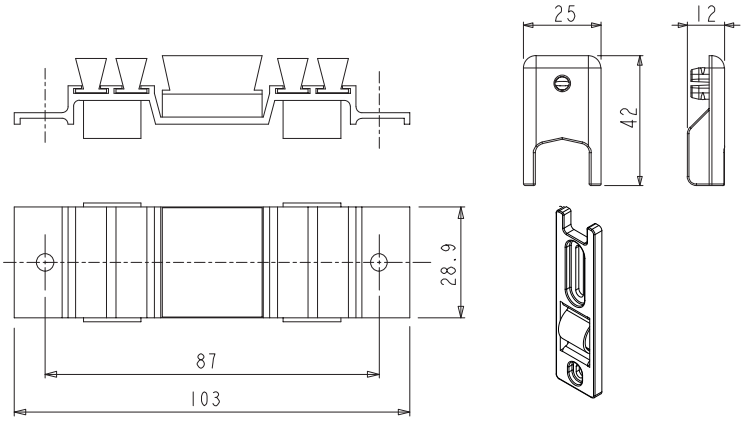
Online data sheet

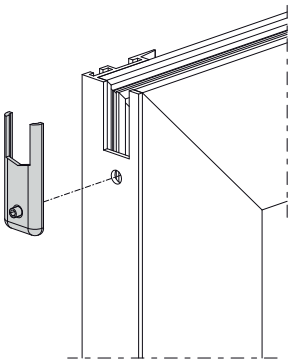
Technical features

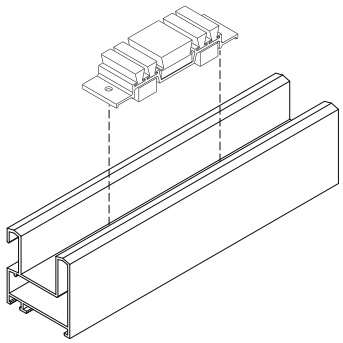
The machining caps improve the appearance of the sash by covering the machining on the central upright.
The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.
The damper plug, in addition to having a burglar-proof function, prevents the sash from slamming against the frame when closing.

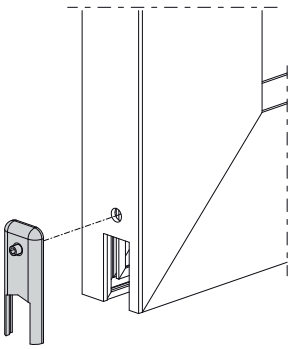
Materials

Dust-proof cover body in black anodized extruded aluminium
Brushes and sponge in expanded EPDM
Screws and grub screws in zinc plated steel
Machining and damper plugs in black polyamide









Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03384	2-SASH SLIDER KIT		X				50



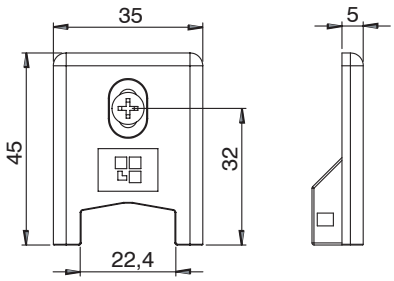
MACHINING COVER

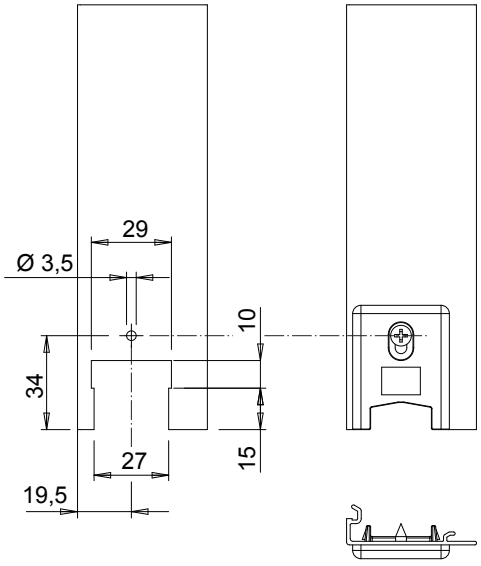
Functions
Cap covering the machining on the central upright of sliding sashes.

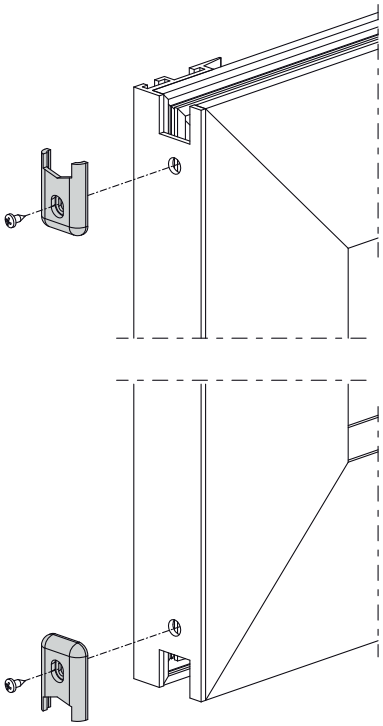
Online data sheet

Technical features
Fixing is by means of a self-tapping screw.

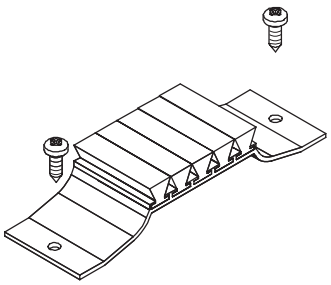
Materials
Black polyamide cap
Zinc plated steel screw







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03462	MACHINING COVER		X				200



DUST-PROOF PLUG

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

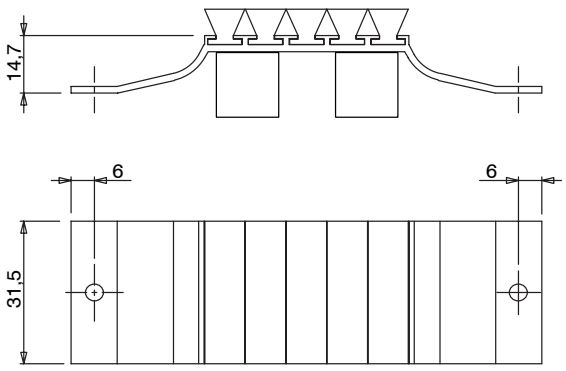
Online data sheet

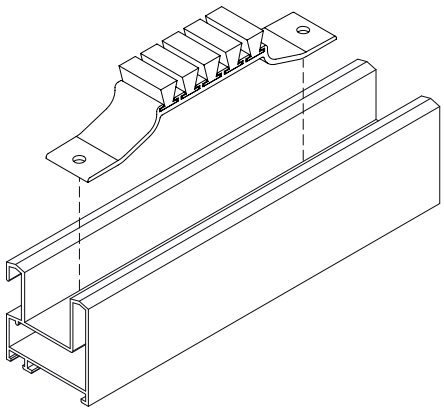
Technical features

The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

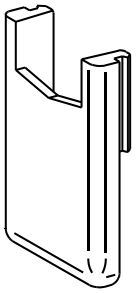
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03467	DUST-PROOF PLUG		X				100

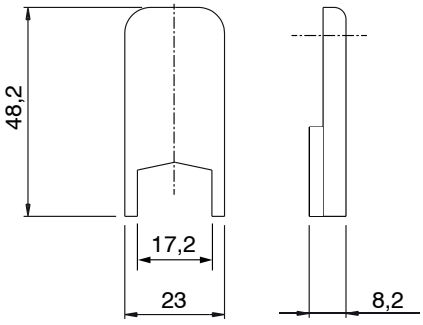


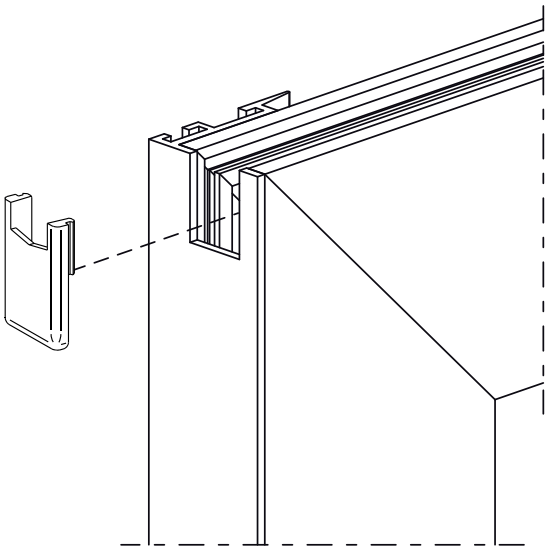
MACHINING COVER

Functions
Cap covering the machining on the central upright of sliding sashes. Fixing takes place by snap-fitting.

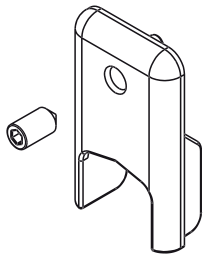
Online data sheet

Materials
Black polyamide cap





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03479	MACHINING COVER		X				100



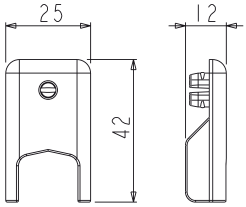
MACHINING COVER

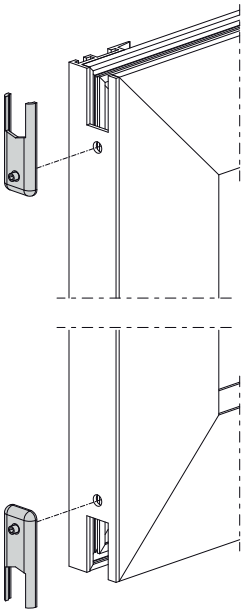
Functions
Cap covering the machining on the central upright of sliding sashes.

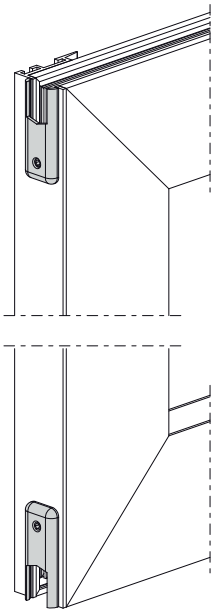
Online data sheet

Technical features
Fixing is by means of a grub screw.

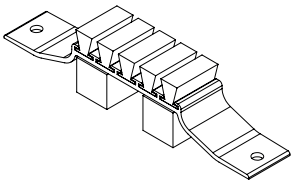
Materials
Black polyamide cap
Stainless steel grub screw







Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03485	MACHINING COVER		X				100



MACHINING COVER

Functions

Component designed to prevent dust and water passing into the interior of the sliding door/window.

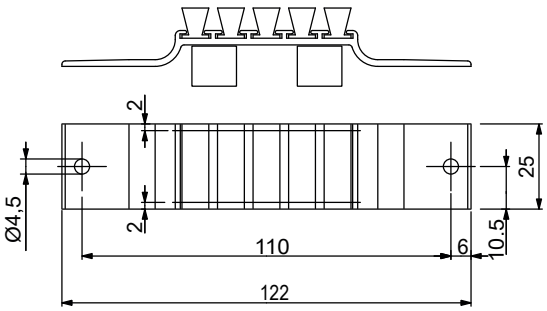
Online data sheet

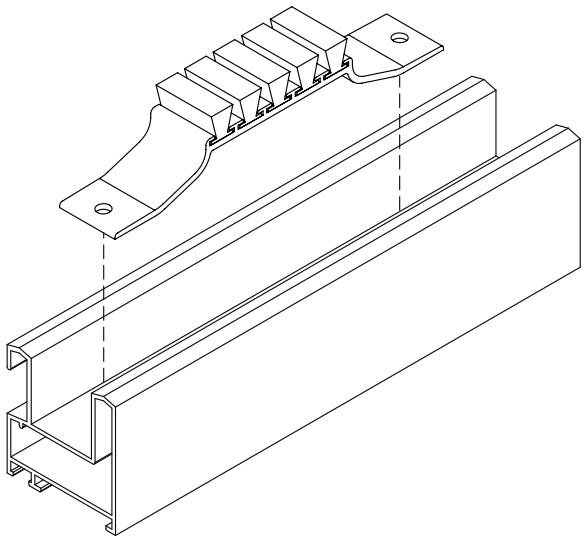
Technical features

The dust cap fits to the upper and lower cross beams of the fixed frame using self-tapping screws.
The sponge fits snugly against the sash to prevent dust and water entering.

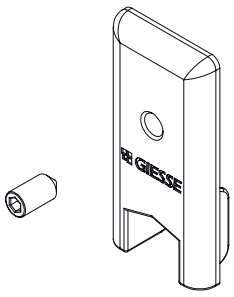
Materials

Black anodised extruded aluminium body
Zinc plated steel screws
Brushes and sponge in expanded EPDM





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03491	MACHINING COVER		X				100



MACHINING COVER

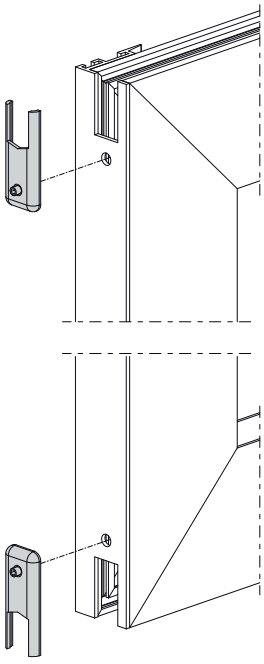
Functions

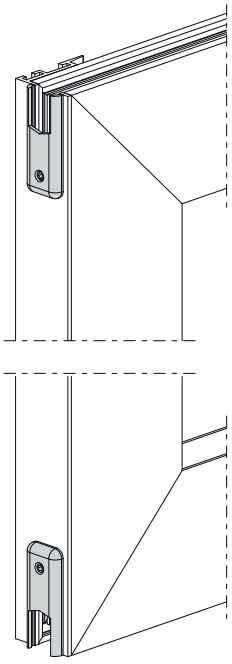
Cap covering the machining on the central upright of sliding sashes. Fixing is by means of a grub screw.

Online data sheet

Materials

Black polyamide cap
Stainless steel grub screw





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03507	MACHINING COVER		X				200



BUSHES

Functions

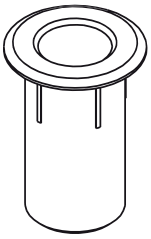
Component which pressure fits to the bed of an aluminium window or a sliding aluminium door to enable the water to run off.

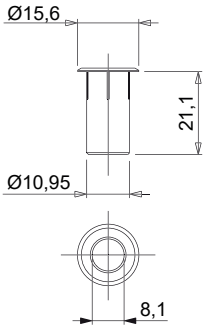
Materials

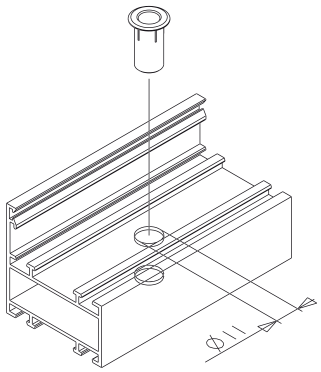
Black polyamide

Online data sheet

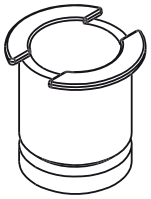
02367

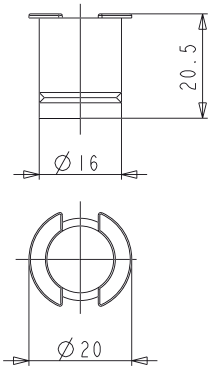




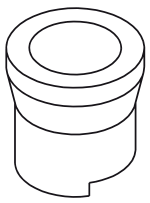


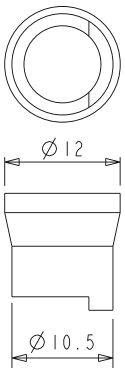
03156





03196



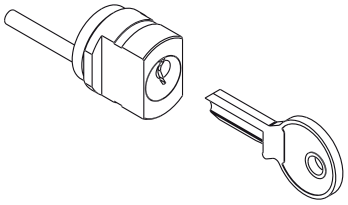


In some series, it is necessary, during assembly, to remove the terminal part at the predetermined break line.



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
02367	PALLET DRAINAGE BUSH		X				500
03156	WATER DRAINAGE BUSH		X				100
03196	WATER DRAINAGE BUSH		X				100

CYLINDERS AND KEYS



Functions

Spare component which enables the fastening function of the PRATICA DUO and BRIO KEY handles.

Online data sheet

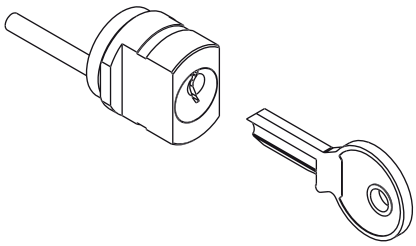
Technical Features

The cylinder can be easily applied on the PRATIKA DUO and BRIO KEY handles with a grub screw.
The cylinder allows an excellent number of combinations and the possibility of having systems with the same key (KA) or master key (MK).

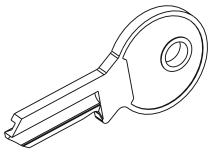
Materials

Brass body cylinder
Peg plate in galvanized zamak
Stainless steel grub screw
Key blank in nickel-plated brass

03061



03062



Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
03061	CYLINDER WITH KEYS		X				10
03062	BLANK KEY FOR PRATIKA/BRIO		X				100

NYLON PARTS

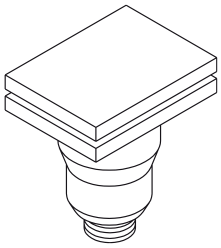


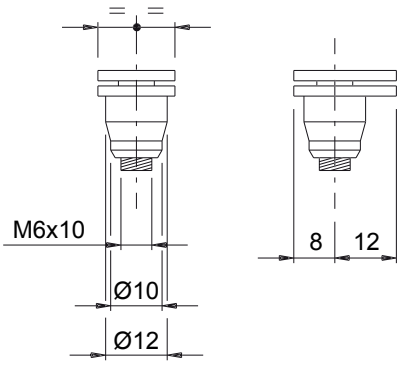
Functions

Hardware to be used on sliding casements with sealing, joining or adjustment function.

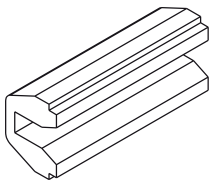
Online data sheet

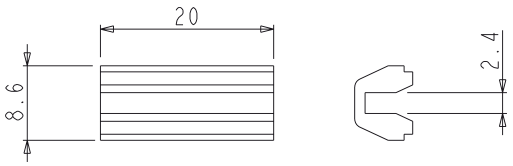
01239





03155





Item code	Description	Note	Base Raw	Anodised Elox	Painted	Trend/Gold Brass	Pieces per pack
01239	GLASS ADJUSTMENT PLUG		X				100
03155	CLIP FOR HOLDING CABLE COVER		X				50



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