



Alban Giacomo SpA

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

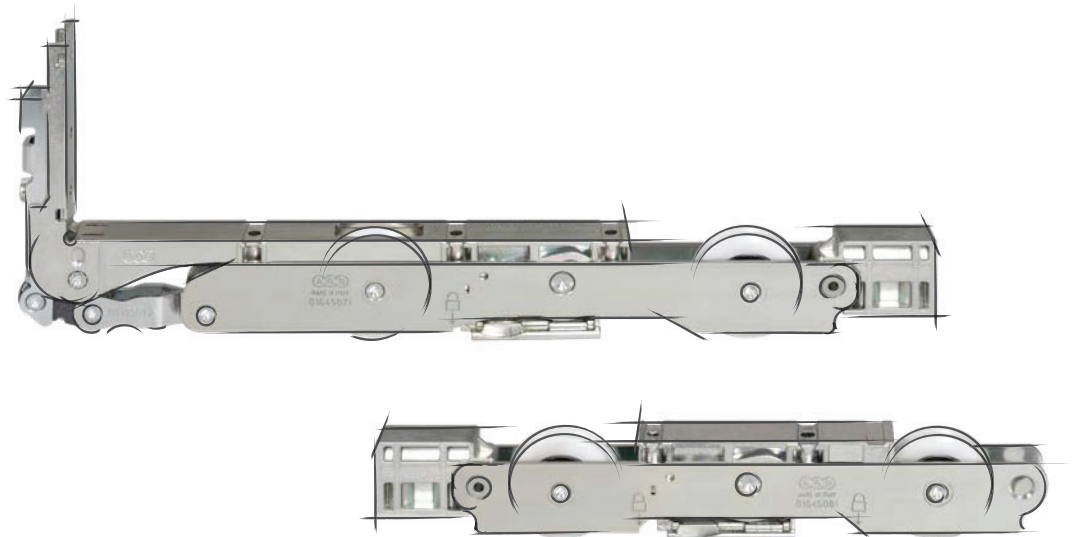
TECHNICAL MANUAL

LIFT & SLIDE

Climatech Imago⁺ 68-78-92

XC Configuration

- System sections 68x50 mm, 78x50 mm, 92x50 mm.
- Embedded upper guide and pultruded fiberglass threshold.
- Distance between the sashes 28 mm.
- Mini Uni-V central point with aluminium anti-burglar beak and wooden covering listels.
- Lock backset 27,5 mm.



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INTRODUCTION

Warnings!



Possible changes regarding accessories, assembly and millings will be constantly reported with the periodic update of this manual. Therefore, we suggest to pay attention to the release of new versions in the website www.agb.it.



The producers who use the AGB Certification agreement must install glasses with the following minimum requirements:
Minimum thickness 44.1/15/33.1 Shatterproof



The features of wooden sections need the glass glue in all the perimeter long, in order to increase the resistance.

Legend of symbology and abbreviations

HB	=	Sash height
LB	=	Sash width
MET	=	Frame external measurement
SMT	=	Frame jamb thickness
SMA	=	Sash jamb thickness
LBF	=	Fixed sash width
HET	=	Frame external height
LG	=	Glass width
HG	=	Glass height
H	=	Component height
L	=	Component length

● = Neutral silicone with Primer

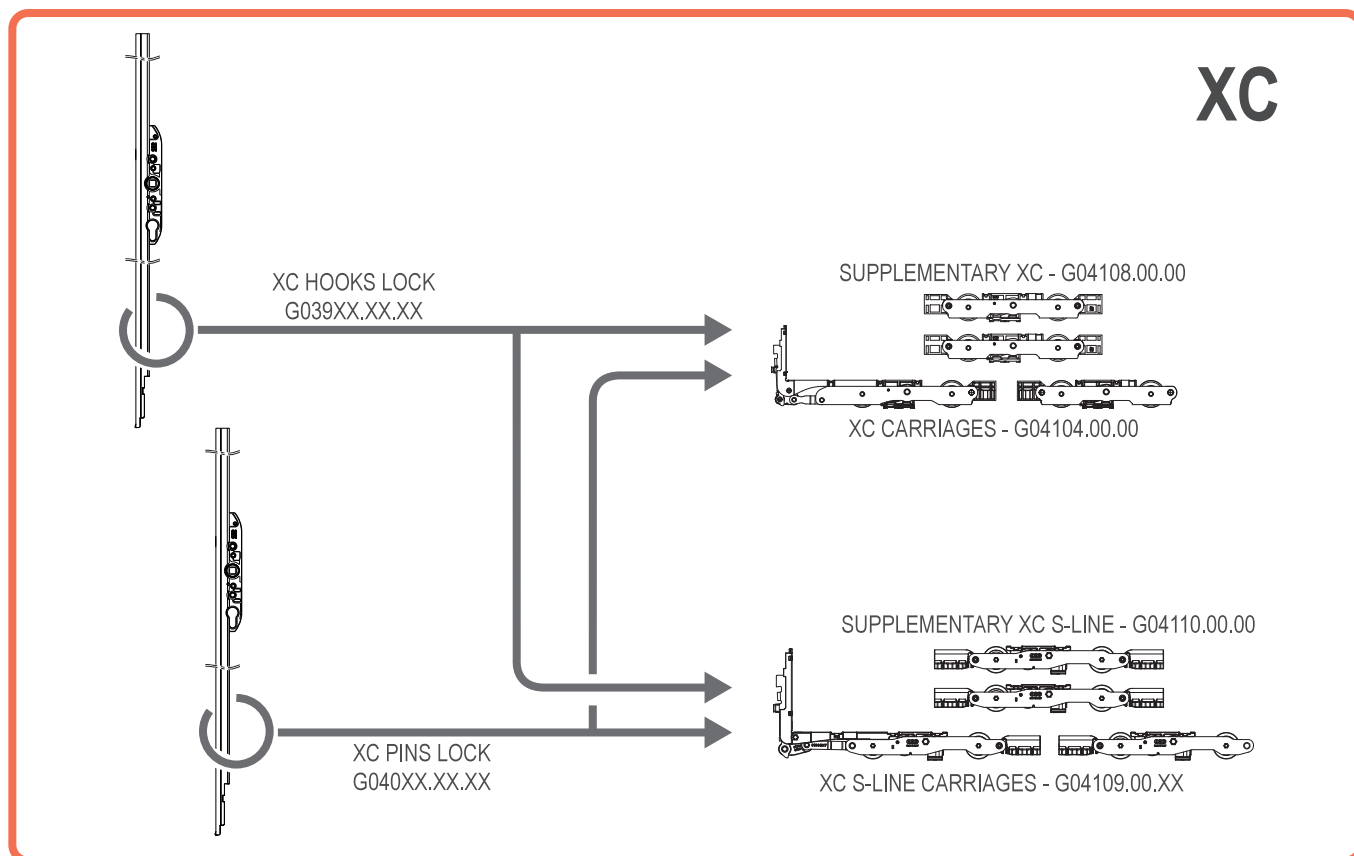
= EPDM tape

Note. All the measurements are in millimeters.

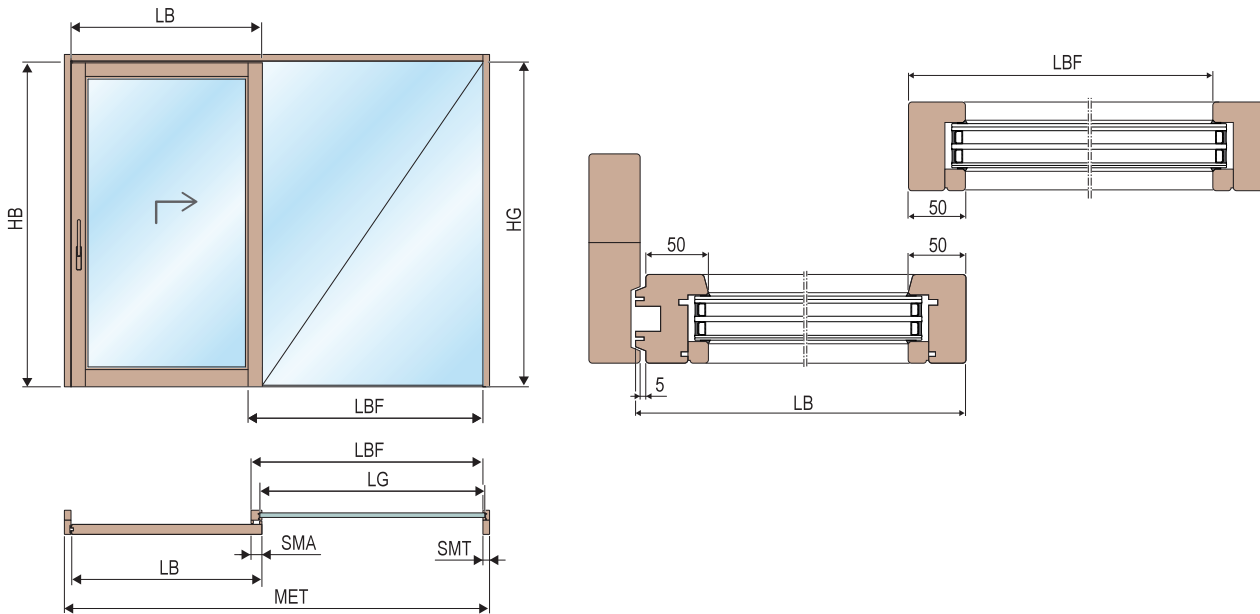
G1	=	Solution detail with 22X22 guide
M1	=	Solution detail with XC carriages
M2	=	Solution detail with XC S-Line carriages
S1	=	Solution detail with hooks lock
S2	=	Solution detail with pins lock
C1	=	Solution with magnetic gaskets
C2	=	Solution with Uni-V Mini central point
	=	Cut in counterprofile
+₂₃	=	Page number indicator of details

CONFIGURATION CHOICE AND CONSTRUCTION CALCULATION

Possible configurations treated in this manual



Dimensions calculation of sliding sashes



Layout A

1 fixed sash and 1 sliding sash

With symmetrical sashes

$$LB = [MET - (2 \times SMT)] : 2 + (SMA : 2) + 4$$

$$LBF = LB - 4$$

Ex: $LB = [4000 - (2 \times 45)] : 2 + (50 : 2) + 4$
 Ex: $LBF = 1984 - 4$

$LB = 1984$ mm
 $LBF = 1980$ mm

With asymmetrical sashes

$$LB = MET - LBF - (2 \times SMT) + 4 + 50$$

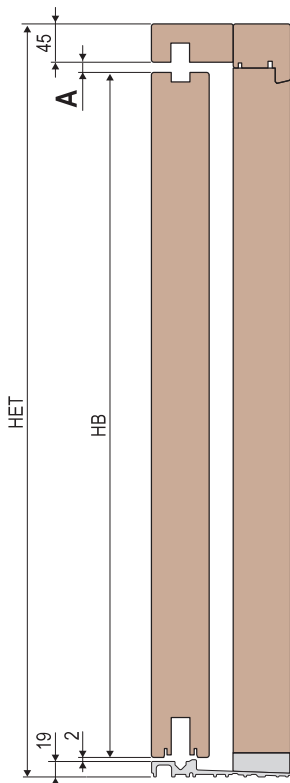
$$LBF = MET - (LB - 9 - 4) - (2 \times SMT) + 50$$

Ex: $LB = 4000 - 2500 - (2 \times 45) + 4 + 50 + 9$
 Ex: $LBF = 4000 - (1446 - 9 - 4) - (2 \times 45) + 50$

$LB = 1446$ mm
 $LBF = 2527$ mm

$$LG = LBF - 26$$

$$HG = HET - 80$$



$A = 12 \Rightarrow HB = HET - 78$ (Tolerance $HB \pm 0,5$)

$A = 15$ (only with 22x22 guide) $\Rightarrow HB = HET - 81$ (Tolerance $HB \pm 0,5$)

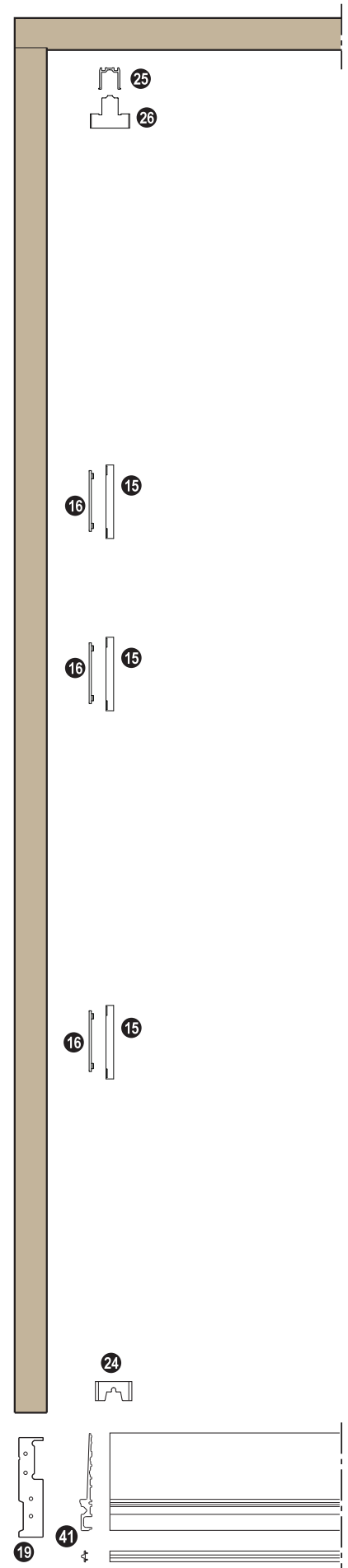
Hardware layout with hooks lock

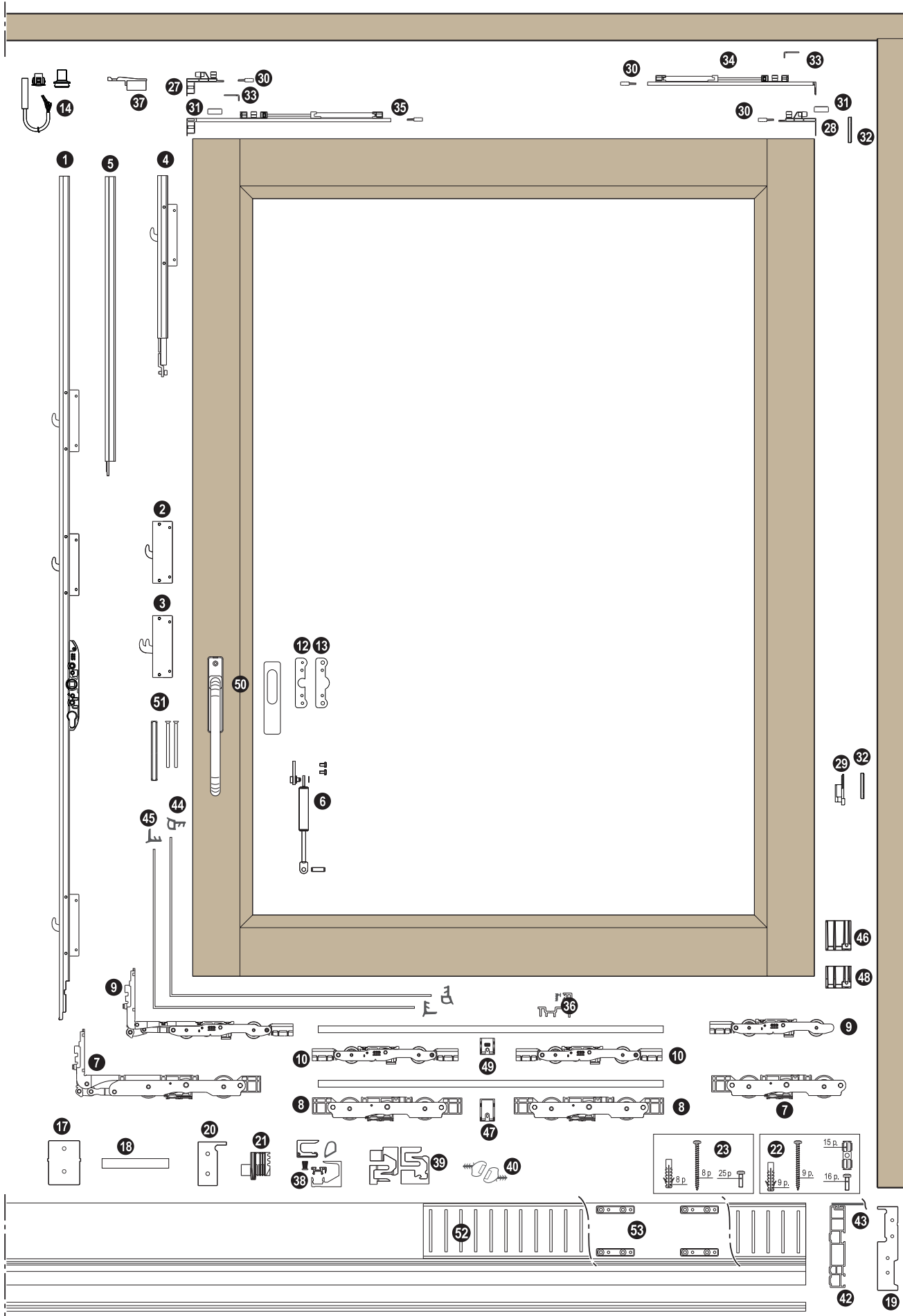
- 1 Hooks lock**
 G03927.03.XX HB=1775-2150 Handle H = 1000
 G03927.04.XX HB=1925-2400 Handle H = 1000
 G03927.05.XX HB=2325-2750 Handle H = 1000
- 2 Additional hook kit -** G05008.00.00
- 3 Microventilation additional hook kit -** G05010.00.00
- 4 Hooks extension 500 mm -** G04600.01.01
- 5 Covering profile 1000 mm -** G04401.02.01
- 6 Gas spring kit -** GMG7020400
- 7 XC basic carriages kit -** G04104.00.00
- 8 XC supplementary carriages kit -** G04108.00.00
- 9 XC S-Line carriages kit -** G04109.00.00
- 10 XC S-Line supplementary carriages kit -** G04110.00.00
- 11 Carriages connecting rod**
 G04601.00.01 L=1000
 G04601.00.02 L=1400
 G04601.00.03 L=1800
 G04601.00.04 L=2700
- 12 Handle fastening plate**
 G05371.M5.00 Foro M5
 G05371.M6.00 Foro M6
- 13 Anti-burglar plate kit -** G05004.00.00
- 14 Sensors**
 G05006.00.86 Grey
 G05006.00.93 Black
 G05003.00.00 Clip
- 15 Striker for lock hook -** G06201.00.XX
- 16 Hook striker counterplate -** G06204.00.01
- 17 Compensator cap, lock side (A)**
- 18 EPDM gasket (A)**
- 19 Comp. cap for frame jamb (A)**
- 20 Comp. cap for central jamb (A)**
- 21 Central pad (A)**
- 22 Climatech threshold fastening kit (A)**
- 23 Glass holder profile fastening kit (A)**
- 24 Shaped cap for low. rail (C)**
- 25 Embedded upper guide 22x22**
 G01002.01.XX L=3000 G01002.04.XX L=6000
 G01002.02.XX L=4000 G01002.05.XX L=7000
 G01002.03.XX L=5000
- 26 Shaped cap for Embedded upper guide 22x22 (C)**
- 27 Front glider (C)**
- 28 Rear glider (C)**
- 29 Rear lower cap (C)**
- 30 Glider fastening device (C)**
- 31 Striker (C) (E)**
- 32 Cover (C)**
- 33 Magnetic striker (D) (E)**
- 34 Opening brake (D)**
- 35 Closing brake (E)**
- 36 Imago glass holder profile kit**
 G01342.01.ZZ L=2000 G01342.03.ZZ L=4000
 G01342.02.ZZ L=3000 G01342.04.ZZ L=6000

XX = 01 Alu. silver 02 Alu. electrocolour	KK = 01 Silver 93 Black
ZZ = 86 Grey RAL 7035 94 Brown RAL 8019	MM = DX Right hand SX Left hand
JJ = 86 Grey RAL 7035 93 Black	PP = 68 Thickness 68 78 Thickness 78 92 Thickness 92

- 37 Upper locking profile**
 G02401.15.01 L=1500
 G02401.20.01 L=2000
 G02401.30.01 L=3000
- 38 Uni-V Mini central point kit**
 G02211.25.KK L=2500
 G02211.31.KK L=3100
 G02211.40.KK L=4000
- 39 Uni-V Mini central point caps kit**
 G01623.DX.93 Destro
 G01623.SX.93 Sinistro
- 40 Magnetic gasket kit for central point**
 G02224.25.93 2,5 M
 G02224.30.93 3 M
- 41 Climatech threshold kit**
 G02292.01.ZZ L=3000 G02292.04.ZZ L=6000
 G02292.02.ZZ L=4000 G02292.14.ZZ L=7000
 G02292.03.ZZ L=5000
- Climatech threshold thickness for high threshold (only for 68 and 78 thick.)**
 G01212.01.01 L=3000 G01212.04.01 L=6000
 G01212.02.01 L=4000 G01212.14.01 L=7000
 G01212.03.01 L=5000
- Gasket for high threshold - 7 meters (only for 68 and 78 thick.)**
 G02210.01.00
- 44 External side gasket (balloon) (F)**
 G020DX.09.93 - G020SX.09.93 L1500 x H2500
 G02000.08.93 L3000 x H3000
- 45 Internal side gasket (F)**
 G02004.15.93 L150 m
- 46 XC anti-derailed adapter-** G01611.02.00
- 47 Rod guide -** G05202.00.00
- 48 S-Line anti-derailed device -** G01611.01.00
- 49 S-Line rod guide -** G00728.00.29
- 50 Handle**
- 51 Handle access. kit for 78 and 92 mm thicknesses**
 G05390.00.00 Screw M5
 G05390.01.00 Screw M6
- 52 Cover for fiberglass threshold - stainless steel**
 G01220.00.08 Thickness 68
 G01221.00.08 Thickness 78
 G01222.00.08 Thickness 92
- 53 Fastening kit for threshold cover -** G02309.00.00

- (A) Imago+ caps kit**
 G02236.MM.JJ Thickness 68
 G02237.MM.JJ Thickness 78
 G02238.MM.JJ Thickness 92
- (C) Embedded upper guide caps kit 22x22 -** G00232.00.JJ
- (D) Opening damper kit**
 G00232.13.JJ 80-200 Kg
 G00232.14.JJ 200-440 Kg
- (E) Closing damper kit**
 G00232.11.JJ 80-200 Kg
 G00232.12.JJ 200-440 Kg
- (F) Gaskets kit**
 G020DX.07.93 L1500 x H2500
 G020SX.07.93 L1500 x H2500
 G02000.06.JJ L3000 x H3000
 G02000.15.93 L4000 x H4000



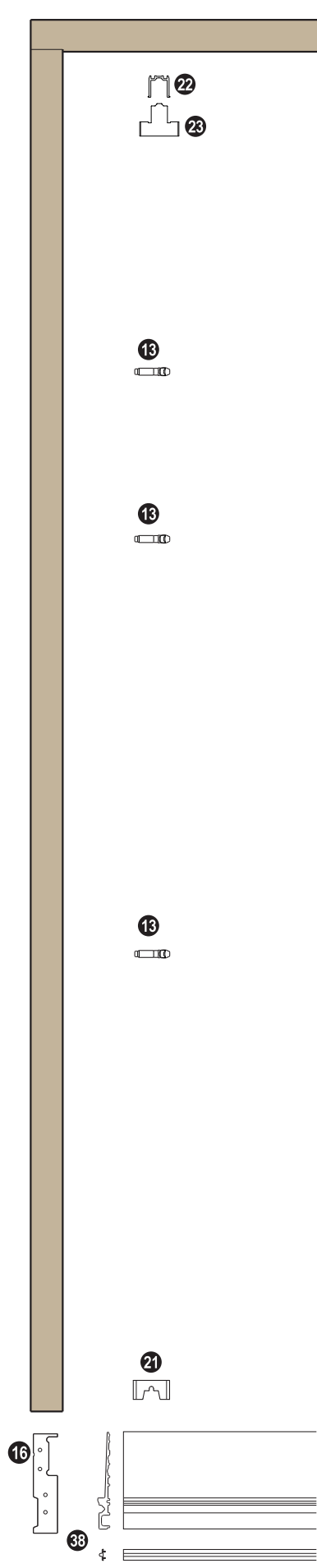


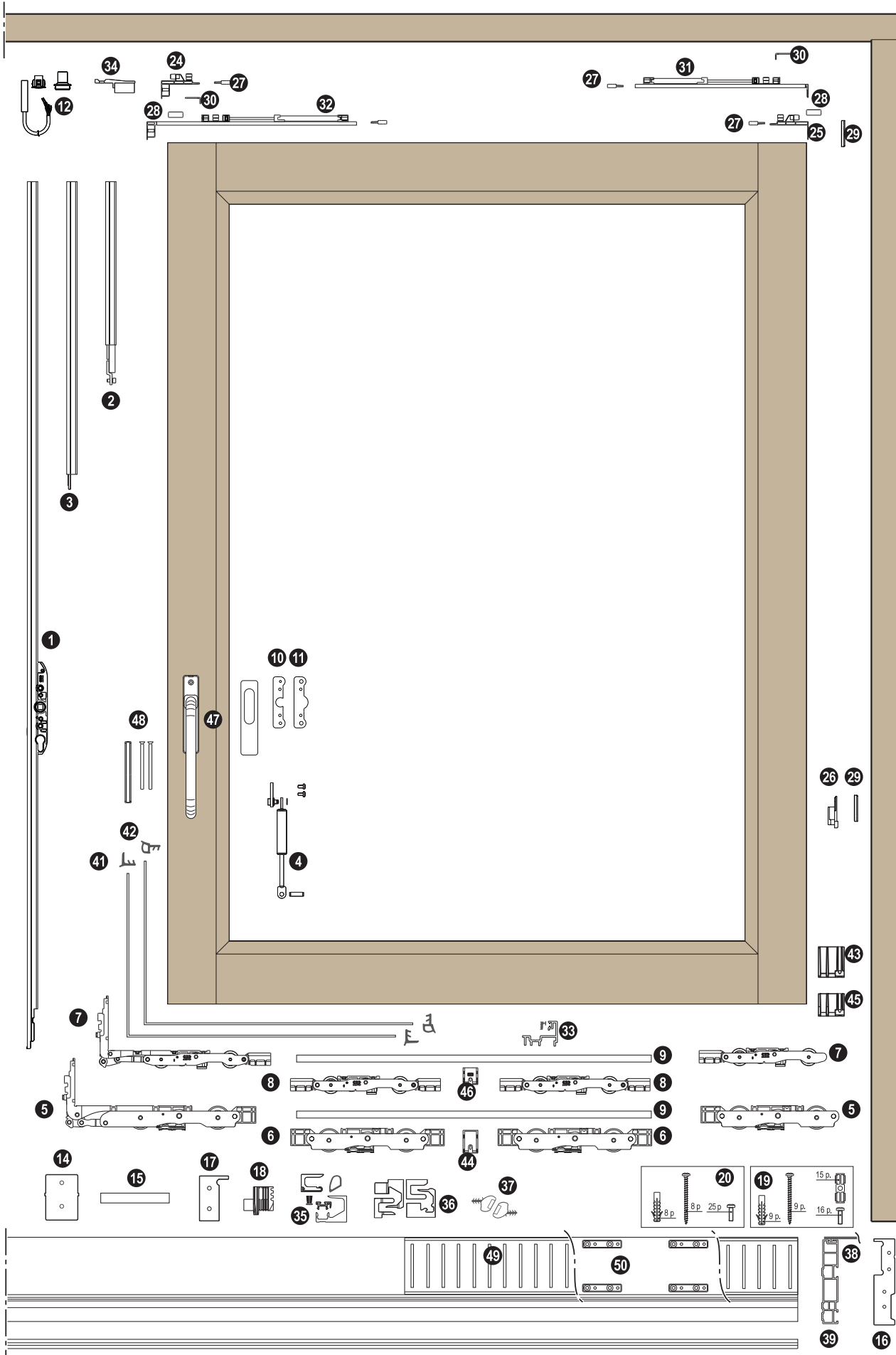
Hardware layout with pins lock

- 1 Pins lock**
 G04027.01.XX Handle H = 400 HB=800-1200
 G04027.02.XX Handle H = 400 HB=1170-1800
 G04027.03.XX Handle H = 1000 HB=1770-2150
 G04027.04.XX Handle H = 1000 HB=1920-2400
 G04027.05.XX Handle H = 1000 HB=2401-2750
- 2 Pins extension 500 mm** - G04401.01.01
- 3 Covering profile 1000 mm** - G04401.02.01
- 4 gas spring kit** - GMG7020400
- 5 XC basic carriages kit** - G04104.00.00
- 6 XC supplementary carriages kit** - G04108.00.00
- 7 XC S-Line carriages kit** - G04109.00.00
- 8 XC S-Line supplm. carriages kit** - G04110.00.00
- 9 Carriages connecting rod**
 G04601.00.01 L=1000
 G04601.00.02 L=1400
 G04601.00.03 L=1800
 G04601.00.04 L=2700
- 10 Handle fastening plate**
 G05371.M5.00 Hole M5
 G05371.M6.00 Hole M6
- 11 Anti-burglar plate kit** - G05004.00.00
- 12 Sensors**
 G05006.00.86 Grey
 G05006.00.93 Black
 G05003.00.00 Clip
- 13 Pin**
 G40728.00.03 Closing
 G04902.01.00 For microventilation
- 14 Compensator cap for lock side** (A)
- 15 EPDM gasket** (A)
- 16 Comp. cap for frame jamb** (A)
- 17 Comp. cap for central jamb** (A)
- 18 Central pad** (A)
- 19 Climatech threshold fastening kit** (A)
- 20 Glass holder profile fastening kit** (A)
- 21 Shaped cap for low. rail** (C)
- 22 Embedded upper guide 22x22**
 G01002.01.XX L=3000 G01002.04.XX L=6000
 G01002.02.XX L=4000 G01002.05.XX L=7000
 G01002.03.XX L=5000
- 23 Shaped cap for Embedded upper guide 22x22** (C)
- 24 Front glider** (C)
- 25 Rear glider** (C)
- 26 Rear lower cap** (C)
- 27 Glider fastening device** (C)
- 28 Striker** (C) (E)
- 29 Cover** (C)
- 30 Magnetic striker** (D) (E)
- 31 Opening brake** (D)
- 32 Closing brake** (E)
- 33 Imago glass holder profile kit**
 G01342.01.ZZ L=2000 G01342.03.ZZ L=4000
 G01342.02.ZZ L=3000 G01342.04.ZZ L=6000
- 34 Upper locking profile**
 G02401.15.01 L=1500
 G02401.20.01 L=2000
 G02401.30.01 L=3000
- 35 Uni-V Mini central point kit**
 G02211.25.KK L=2500
 G02211.31.KK L=3100
 G02211.40.KK L=4000
- 36 Uni-V Mini central point caps kit**
 G01623.DX.93 Right
 G01623.SX.93 Left
- 37 Magnetic gasket kit for central point**
 G02224.25.93 2,5 M
 G02224.30.93 3 M
- 38 Climatech threshold kit**
 G022PP.01.ZZ L=3000 G022PP.04.ZZ L=6000
 G022PP.02.ZZ L=4000 G022PP.14.ZZ L=7000
 G022PP.03.ZZ L=5000
- 39 Climatech threshold adapter for high threshold (only for 68 and 78 thick.)**
 G01212.01.01 L=3000 G01212.04.01 L=6000
 G01212.02.01 L=4000 G01212.14.01 L=7000
 G01212.03.01 L=5000
- 40 Gasket for high threshold - 7 meters (only for 68 and 78 thick.)**
 G02210.01.00
- 41 External side gasket (balloon)** (F)
 G020DX.09.93 - G020SX.09.93 L1500 x H2500
 G02000.08.93 L3000 x H3000
- 42 Internal side gasket** (F)
 G02004.15.93 L150 m
- 43 XC anti-derailed device** - G01611.02.00
- 44 Rod guide** - G05102.00.00
- 45 S-Line anti-derailed device** - G01611.01.00
- 46 S-Line rod guide** - G00728.00.29
- 47 Handle**
- 48 Handle access. kit for 78 and 92 mm thicknesses**
 G05390.00.00 Screw M5
 G05390.01.00 Screw M6
- 49 Cover for fiberglass threshold - stainless steel**
 G01220.00.08 Spessore 68
 G01221.00.08 Spessore 78
 G01222.00.08 Spessore 92
- 50 Gaskets kit for lift&slide** - G01219.00.01

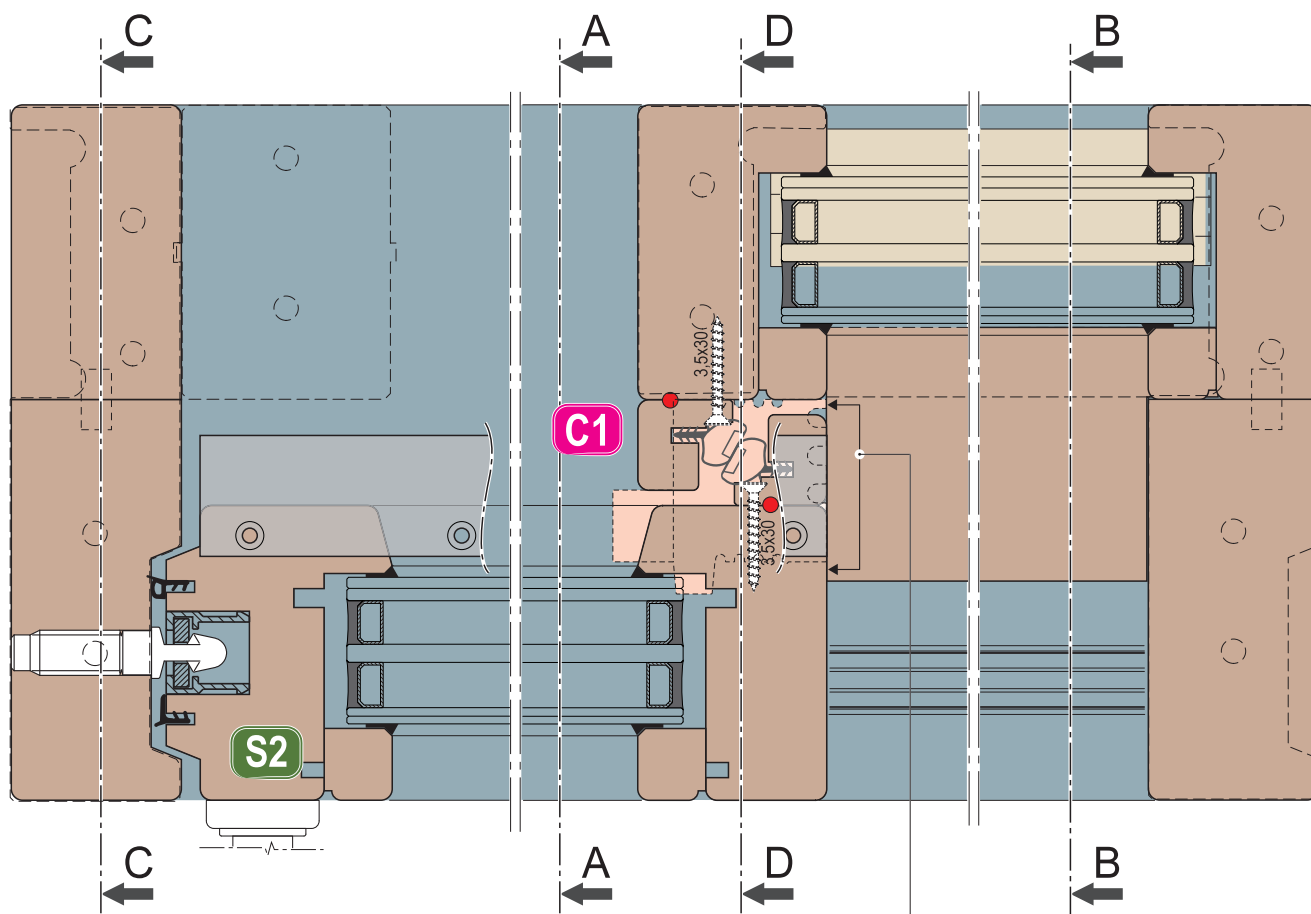
XX = 01 Alu. silver	KK = 01 Silver
02 Alu. electrocolour	93 Black
ZZ = 86 Grey RAL 7035	MM = DX Right hand
94 Brown RAL 8019	SX Left hand
JJ = 86 Grey RAL 7035	PP = 68 Thickness 68
93 Black	78 Thickness 78
	92 Thickness 92

- (A) Imago+ caps kit**
 G02236.MM.JJ Thickness 68
 G02237.MM.JJ Thickness 78
 G02238.MM.JJ Thickness 92
- (C) Embedded upper guide caps kit 22x22** - G00232.00.JJ
- (D) Opening damper kit**
 G00232.13.JJ 80-200 Kg
 G00232.14.JJ 200-440 Kg
- (E) Closing damper kit**
 G00232.11.JJ 80-200 Kg
 G00232.12.JJ 200-440 Kg
- (F) Gaskets kit**
 G020DX.07.93 L1500 x H2500
 G020SX.07.93 L1500 x H2500
 G02000.06.JJ L3000 x H3000
 G02000.15.93 L4000 x H4000

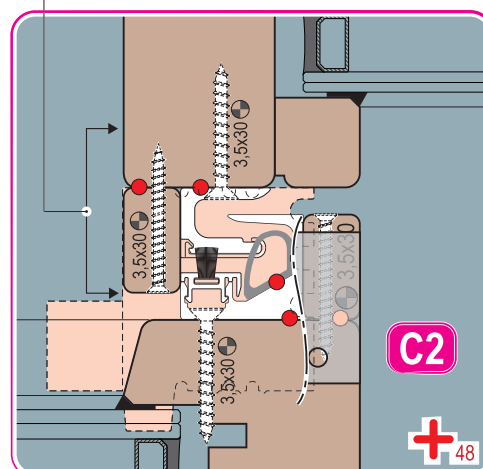
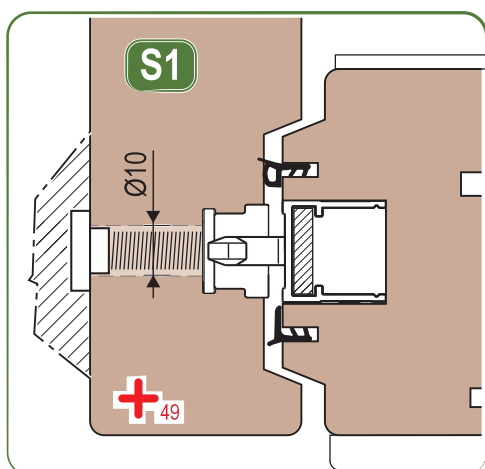




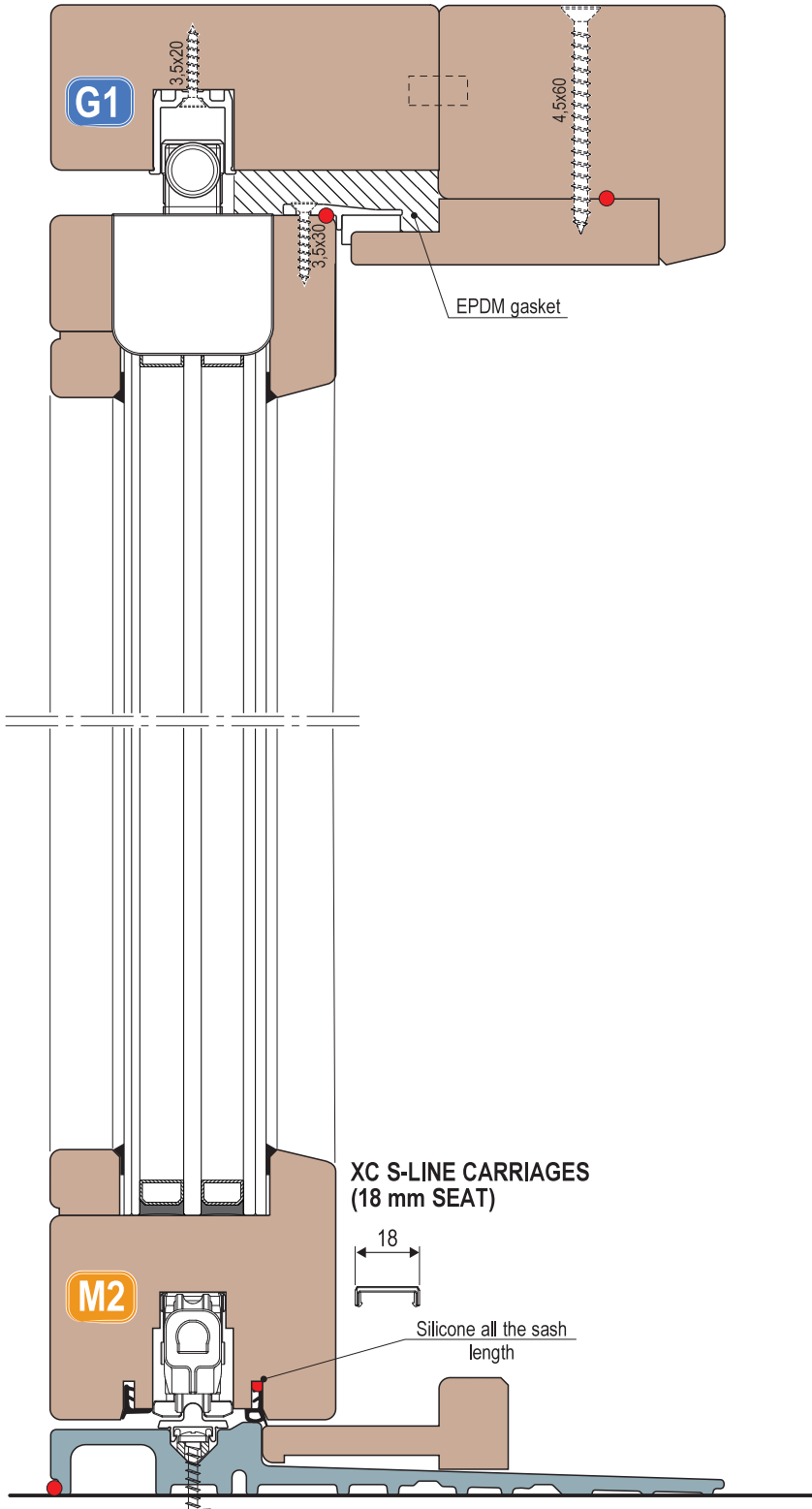
Horizontal section



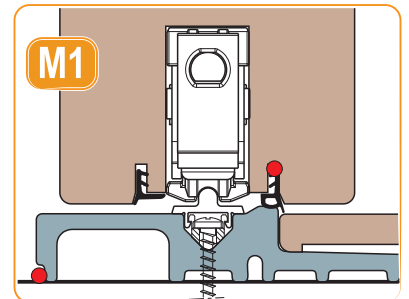
Align the pad to the sash jamb



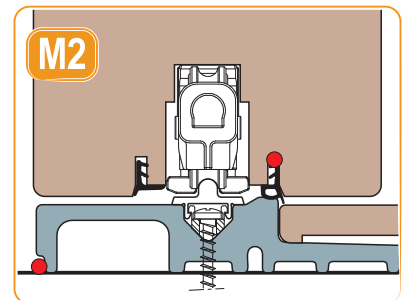
Vertical section A-A - Sliding sash



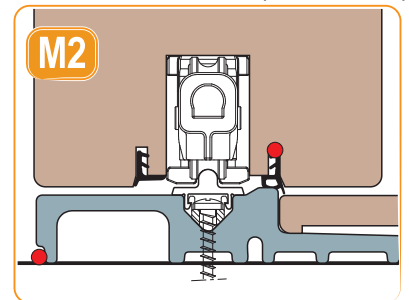
XC CARRIAGES



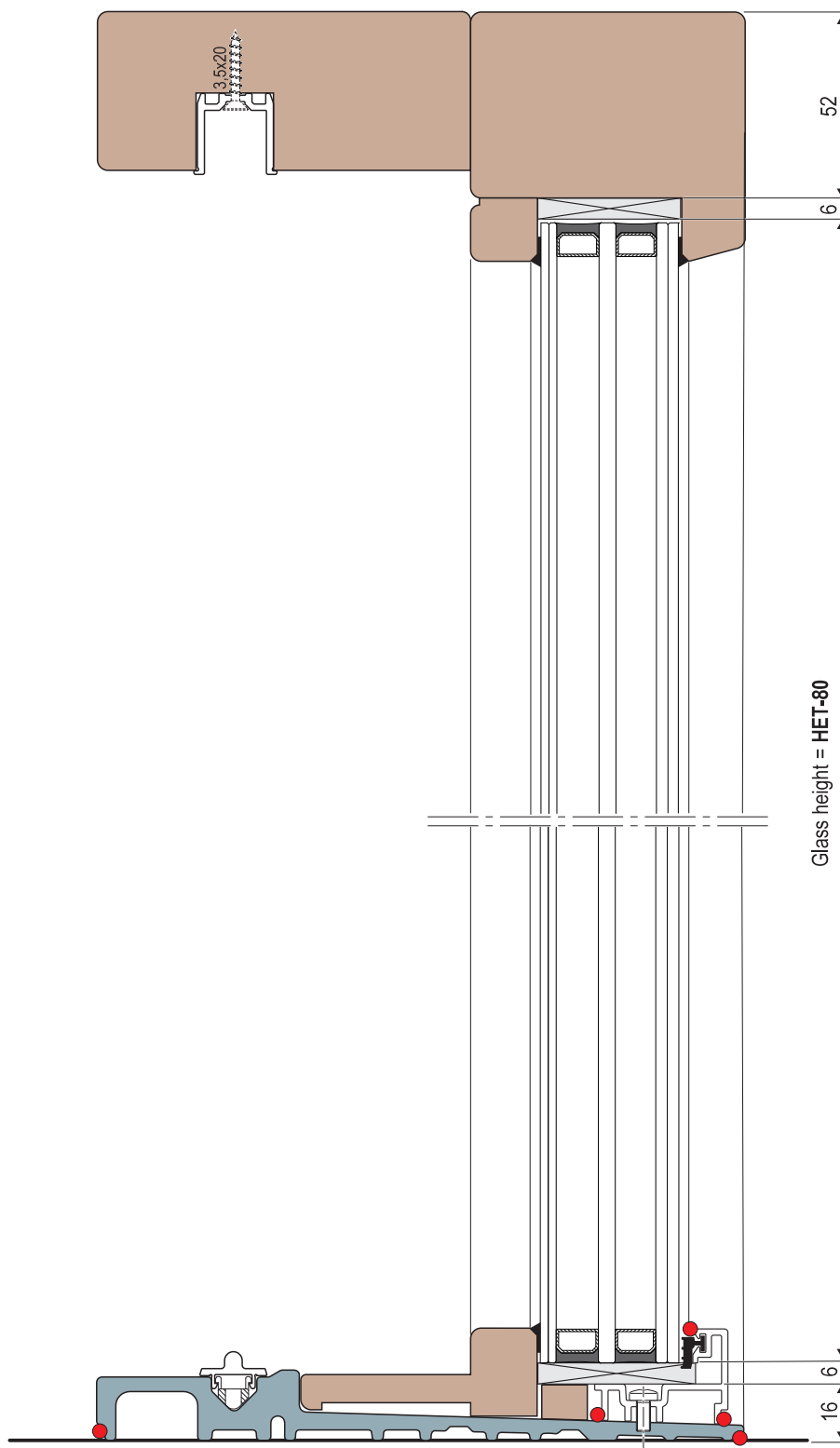
XC S-LINE CARRIAGES (16 mm SEAT)



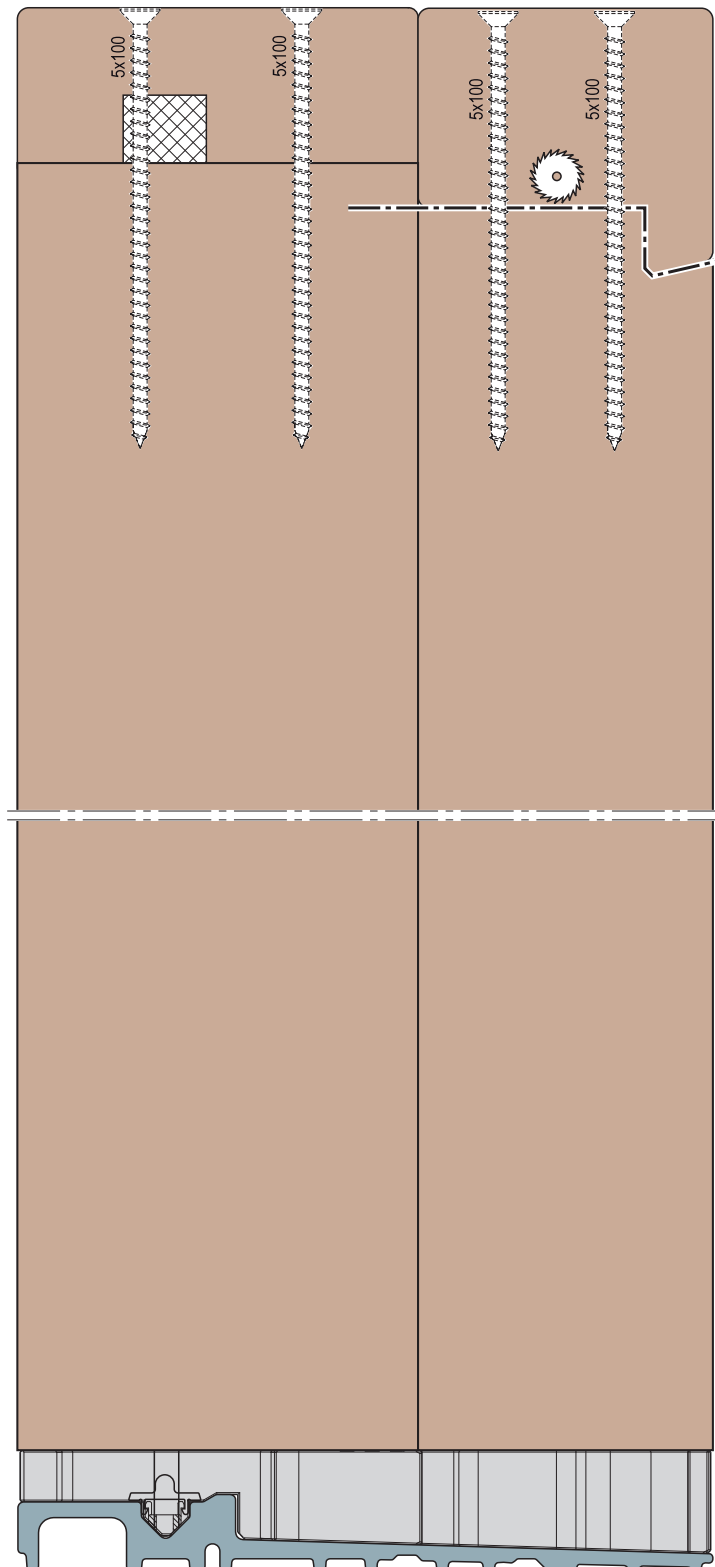
XC S-LINE CARRIAGES (22 mm SEAT)



Vertical section B-B - Fixed sash

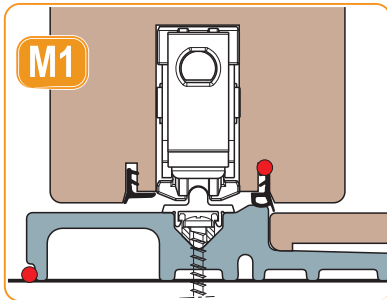


Vertical section C-C

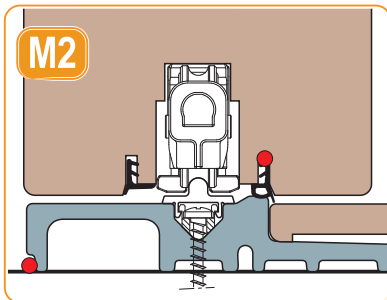


Vertical section D-D

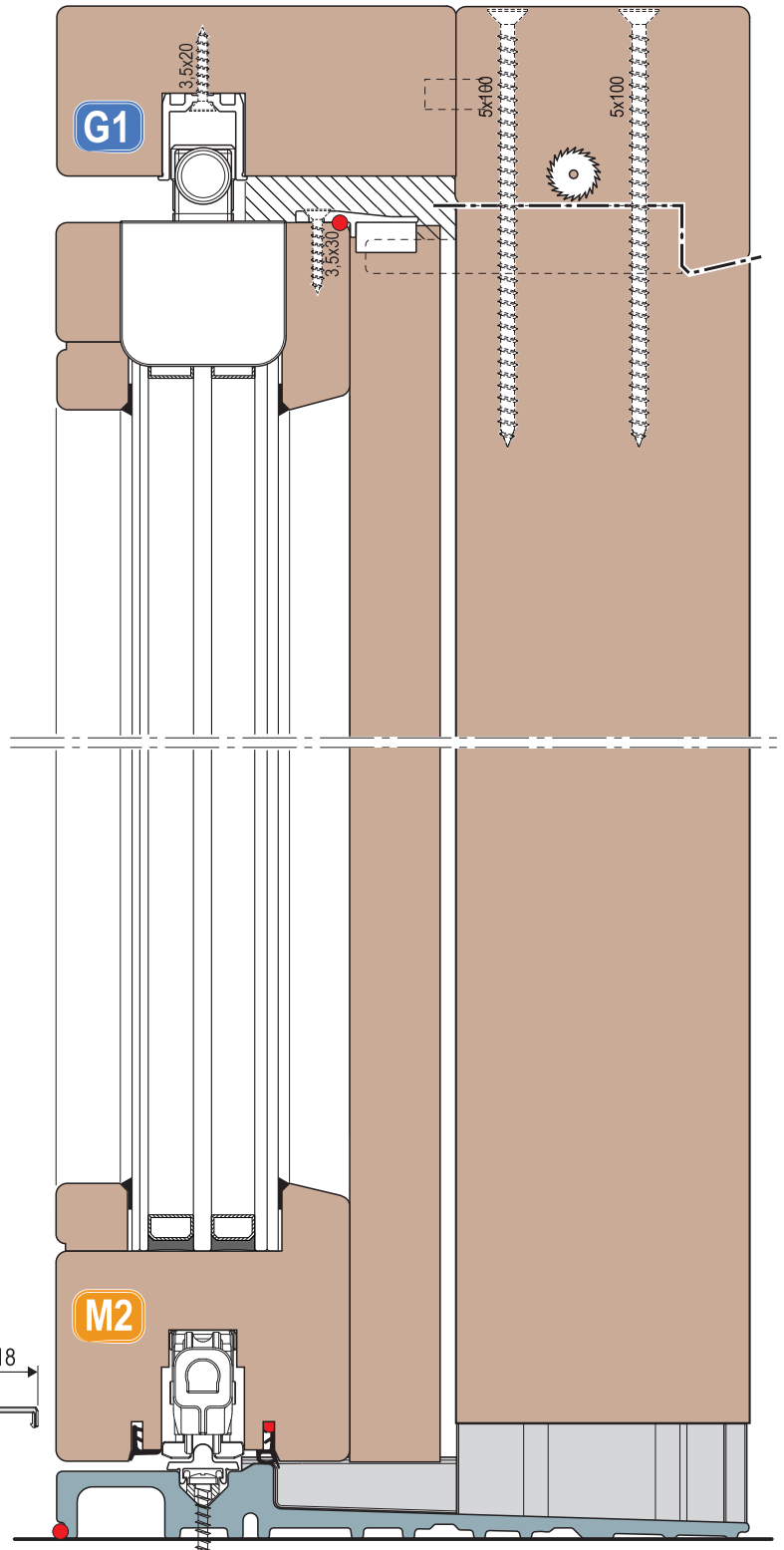
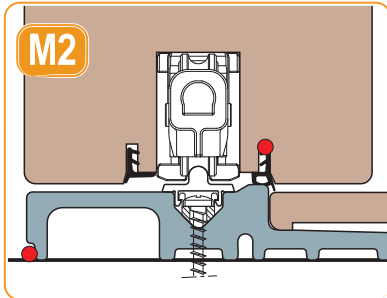
XC CARRIAGES



XC S-LINE CARRIAGES (16 mm SEAT)



XC S-LINE CARRIAGES (22 mm SEAT)



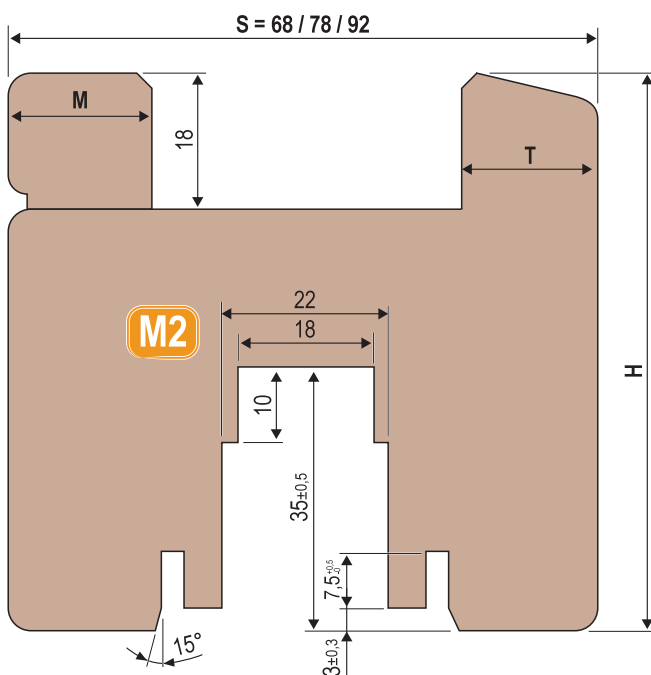
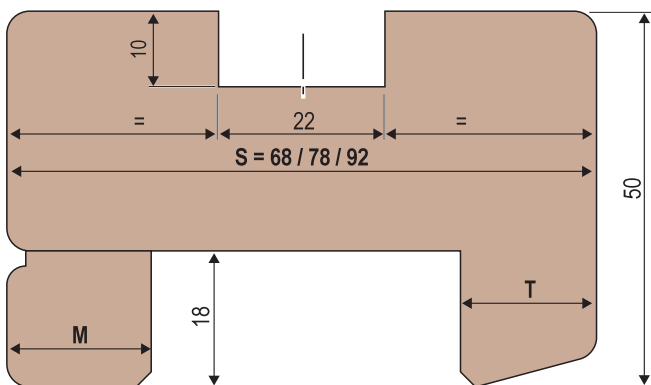
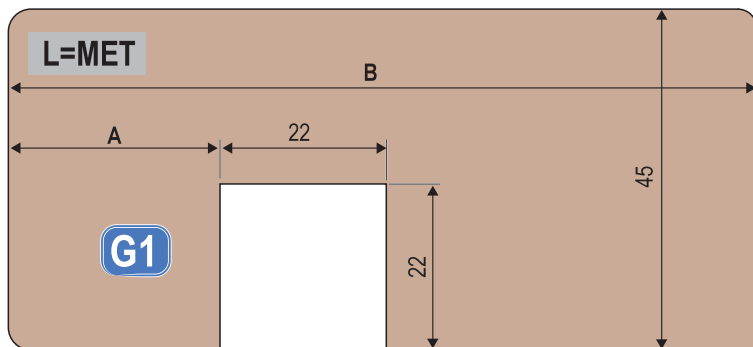
Millings - Vertical section, sliding sash



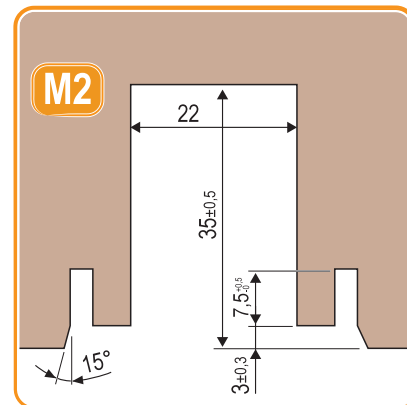
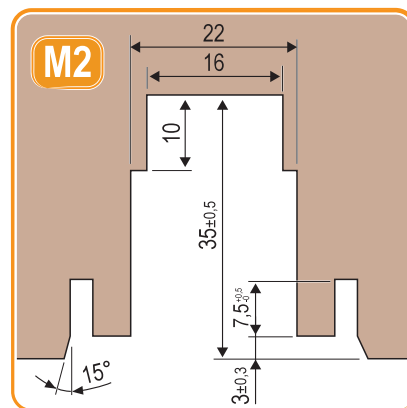
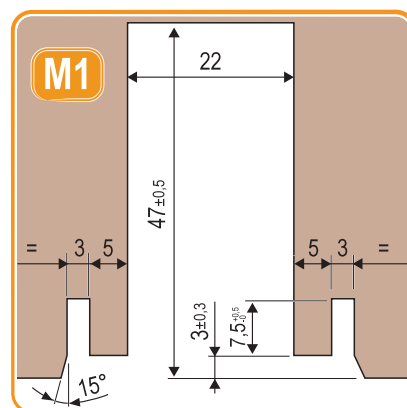
Dimensions of the glass holder and the lower thermal profile need the use of a glass with 31 mm thickness (for S=68), 41 mm (for S=78) and 53 mm (for S=92).

S	68	78	92
A	23	28	35
B	96	106	120
M	18	19	21
T	19	18	18

	M1	M2
H	90	74



◆ The quote has been calculated with a 18 mm external glass holder adapter.

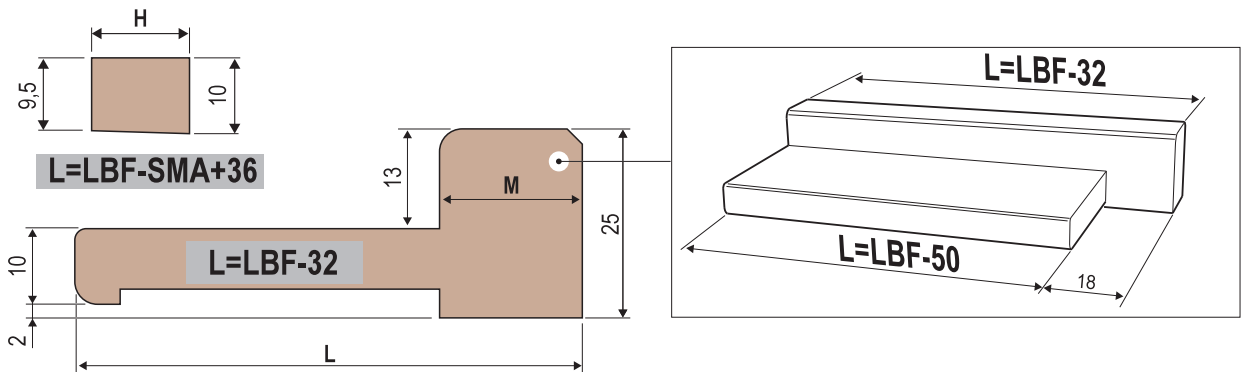
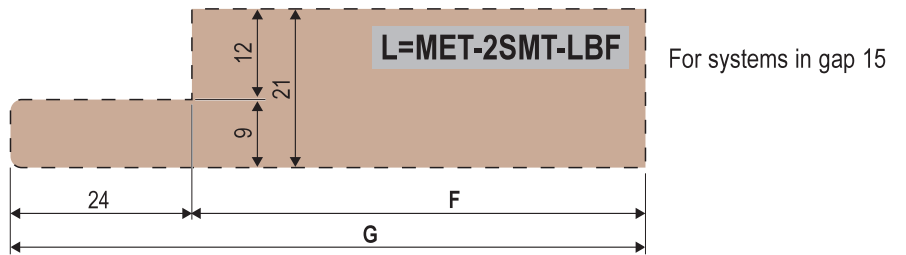
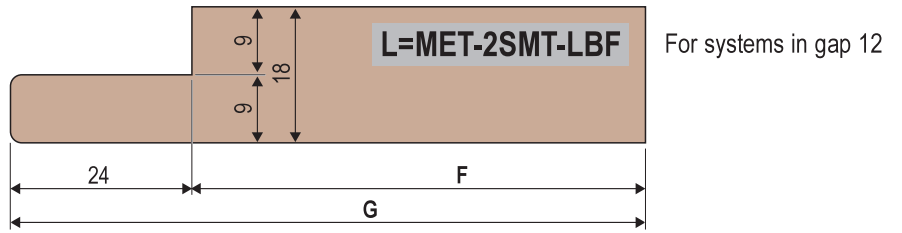
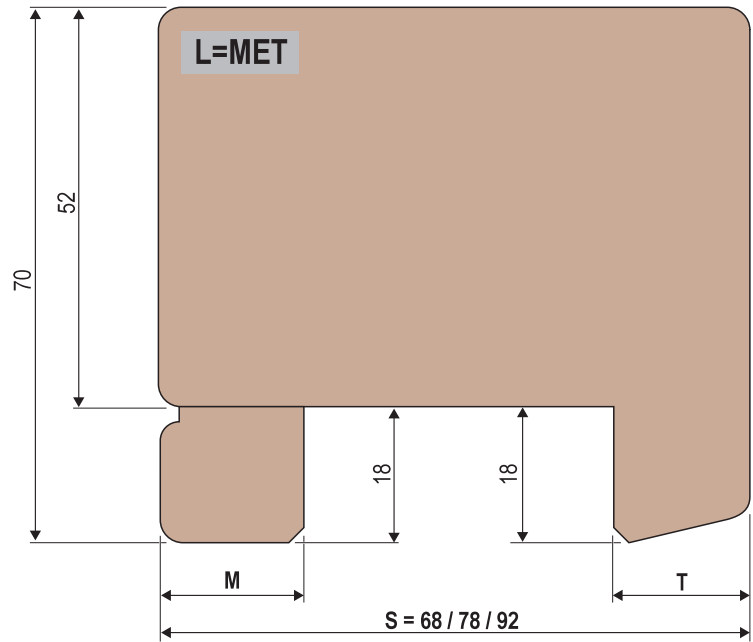


Millings - Vertical section, fixed sash



Dimensions of the glass holder and the lower thermal profile need the use of a glass with 31 mm thickness (for S=68), 41 mm (for S=78) and 53 mm (for S=92).

S	68	78	92
F	50	60	74
G	74	84	98
H	-	13	24
L	61	67	76
M	18	19	21
T	19	18	18



◆ The quote has been calculated with a 18 mm external glass holder adapter.

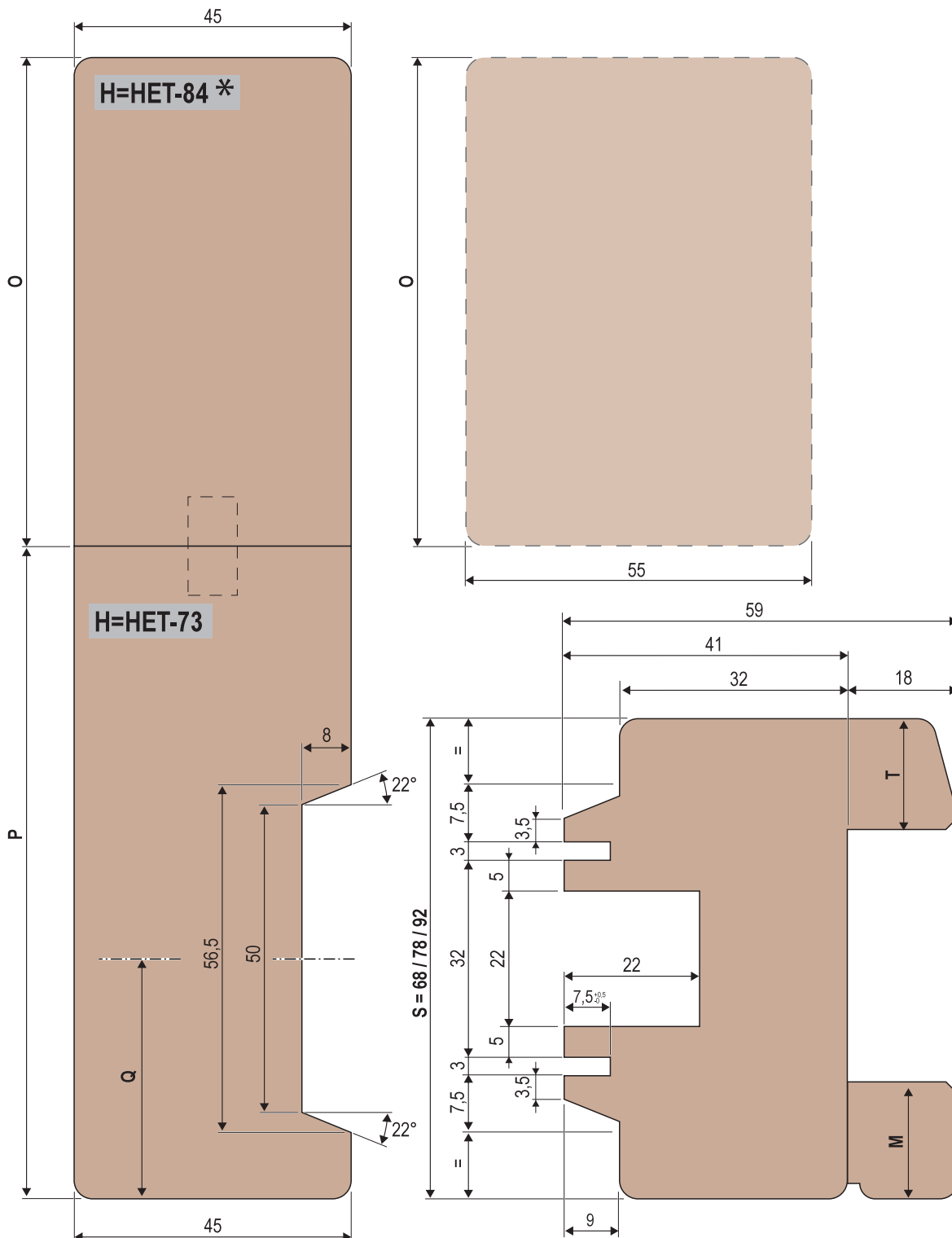
Millings - Horizontal section



The dimensions of glass holder and lower thermal profile need the use of a glass with 31 mm (for S=68), 41 mm (per S=78) and 53 mm (for S=92).

S	68	78	92
O	68	78	92
P	96	106	120
Q	34	39	46
M	18	19	21
T	19	18	18

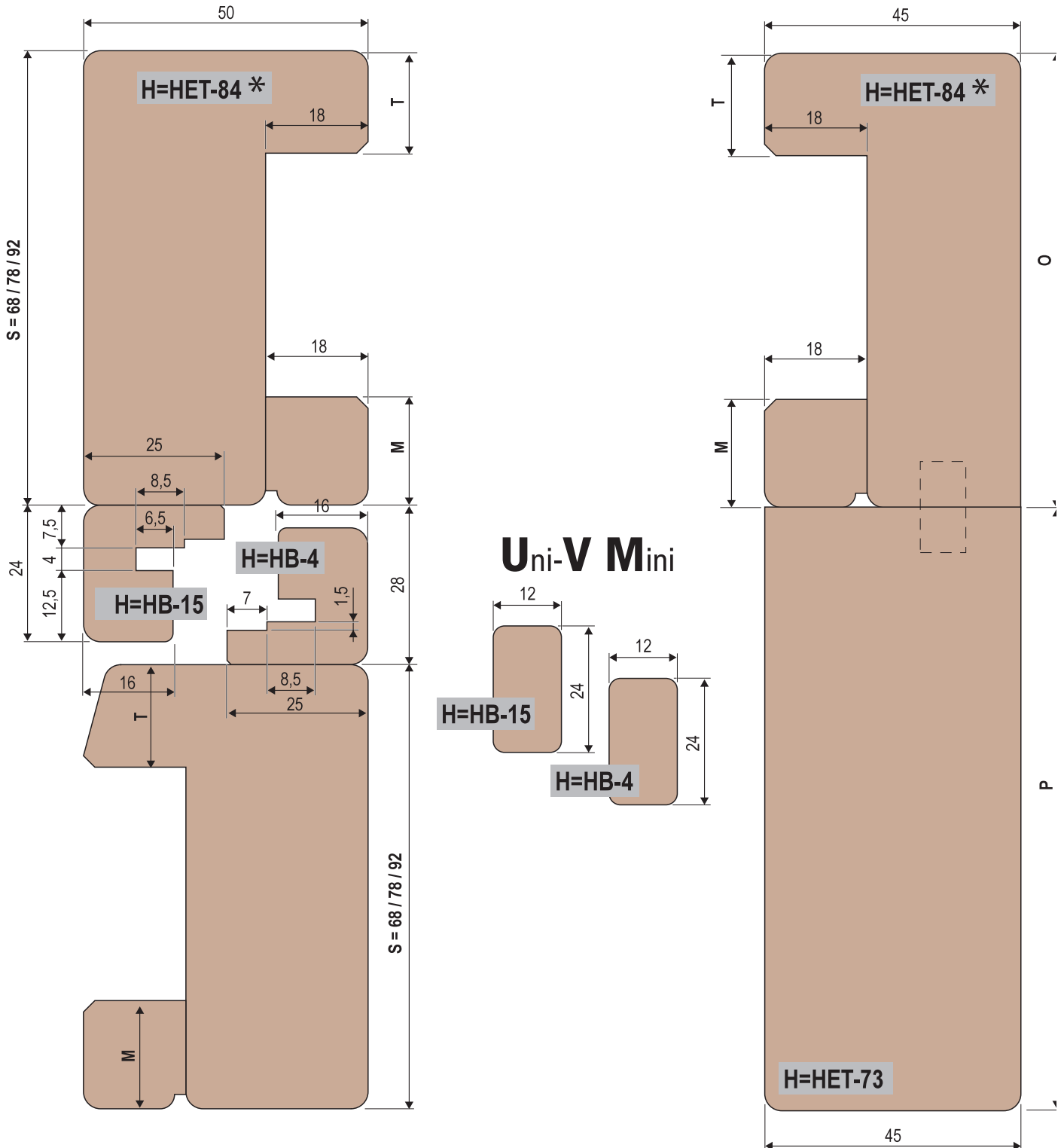
- ◆ Quote calculated according to a 18 mm external glass holder adapter.
- * Place the upper extremity in the same shape of the frame transom.
- ⊕ Pre-holes for application of compensator cap fastening screws.



Millings - Horizontal section

 The dimensions of glass holder and lower thermal profile need the use of a glass with 31 mm (for S=68) 41 mm (per S=78) and 53 mm (for S=92).

S	68	78	92
O	96	106	120
P	68	78	92
M	18	19	21
T	19	18	18

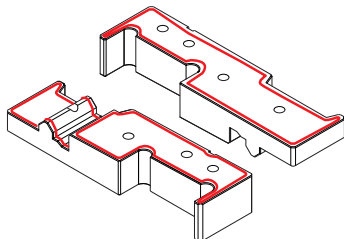


GUIDE FOR CORRECT INSTALLATION AND REALISATION OF CONSTRUCTION DETAILS

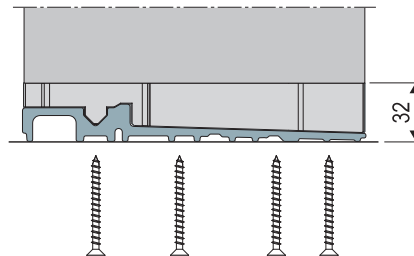
Application of frame compensator cap

INSTRUCTIONS FOR THE SUPPORTING CAP ASSEMBLY

- Make a silicone beadaround perimeter in the two sides of the compensator cap.



- Fasten the cap to the threshold and to the jamb (screws provided).



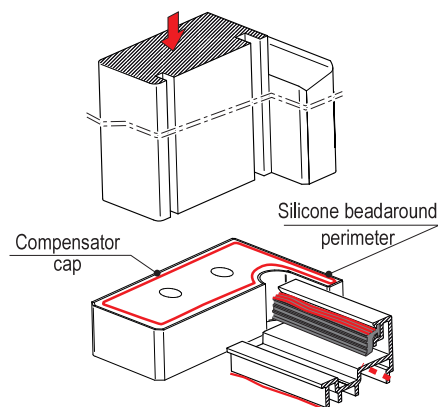
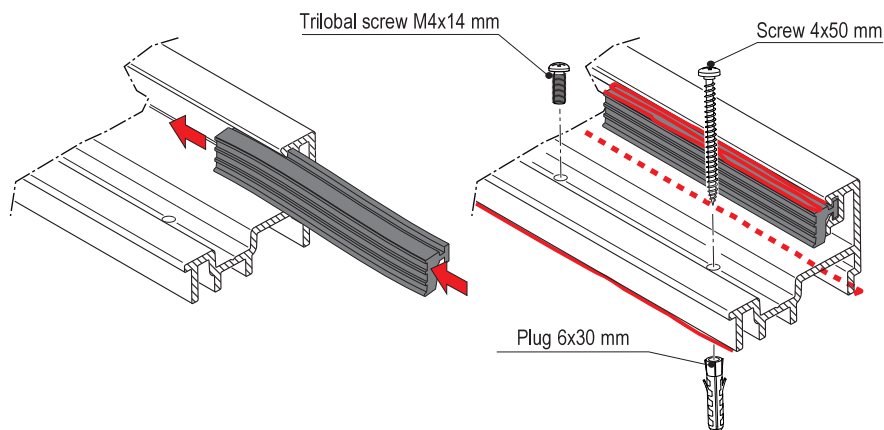
Application of glass holder profile

INSTRUCTIONS FOR ASSEMBLY OF GLASS HOLDER PROFILE

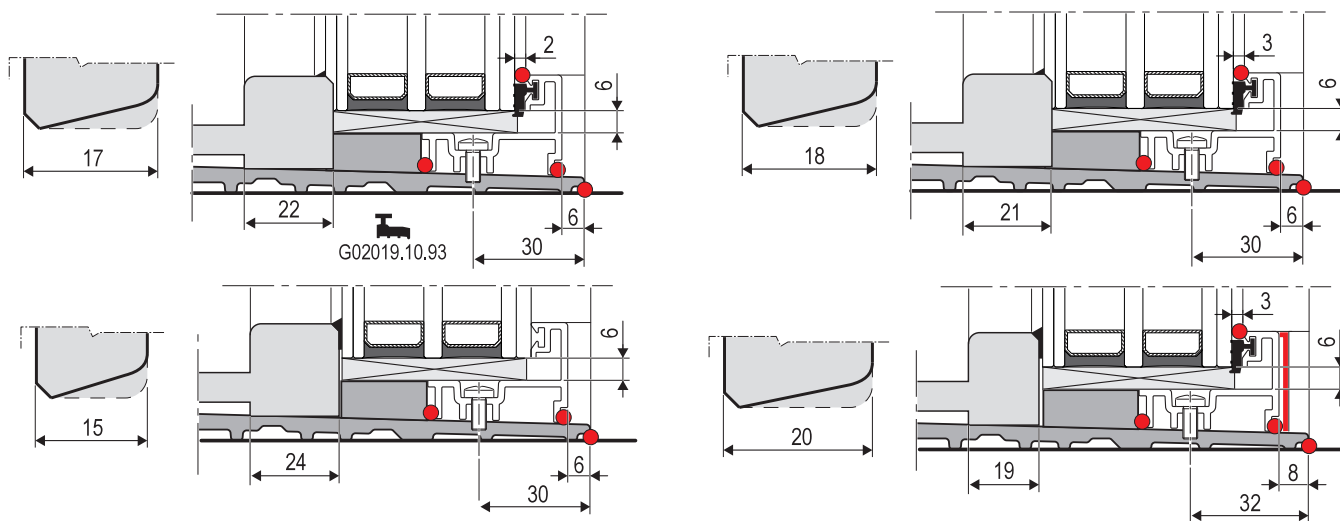
- Insert the gasket from one side.

- Fasten the glass holder profile alternating one trilobal screw and one with plug.
- Make a silicone beadaround perimeter all the profile long.

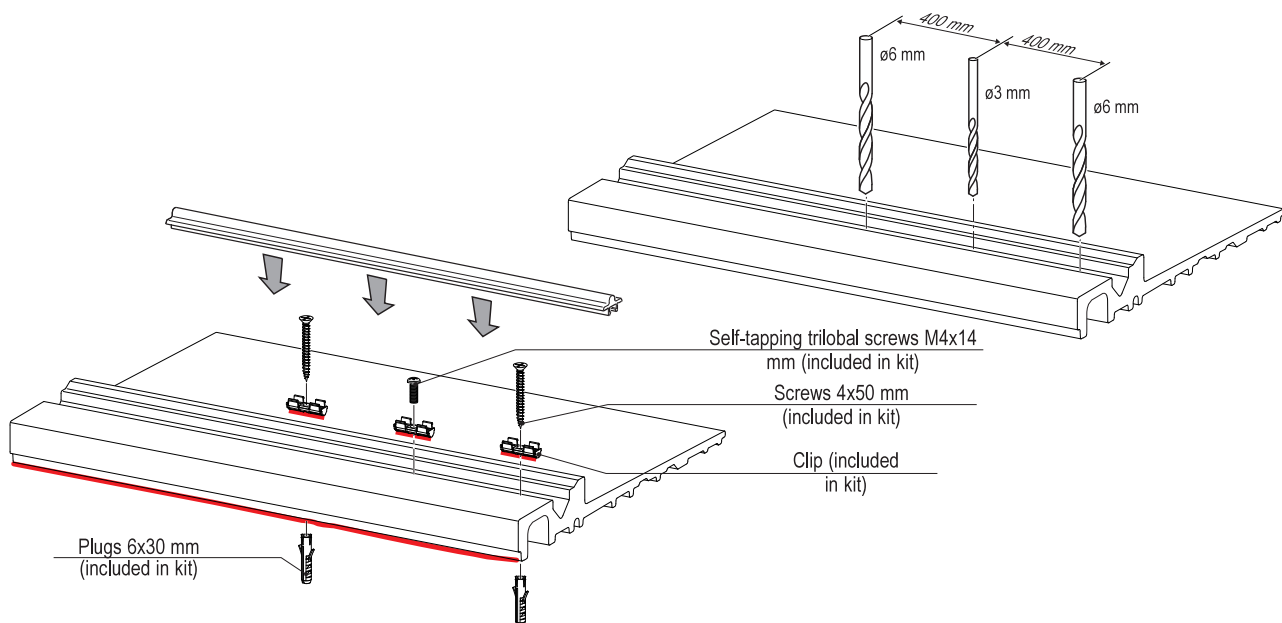
- Make a silicone beadaround perimeter in the suitabel groove into the compensator cap.



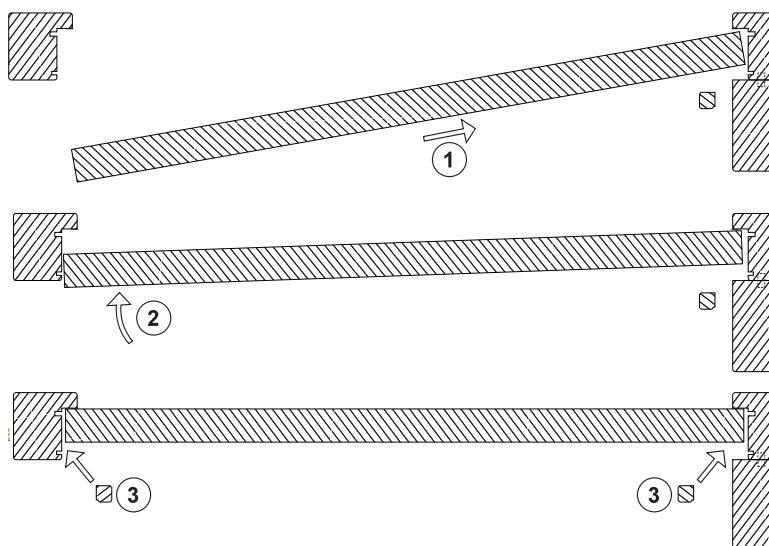
Positioning of glass holder according to the dimensions of the glazing bead



Threshold fastening

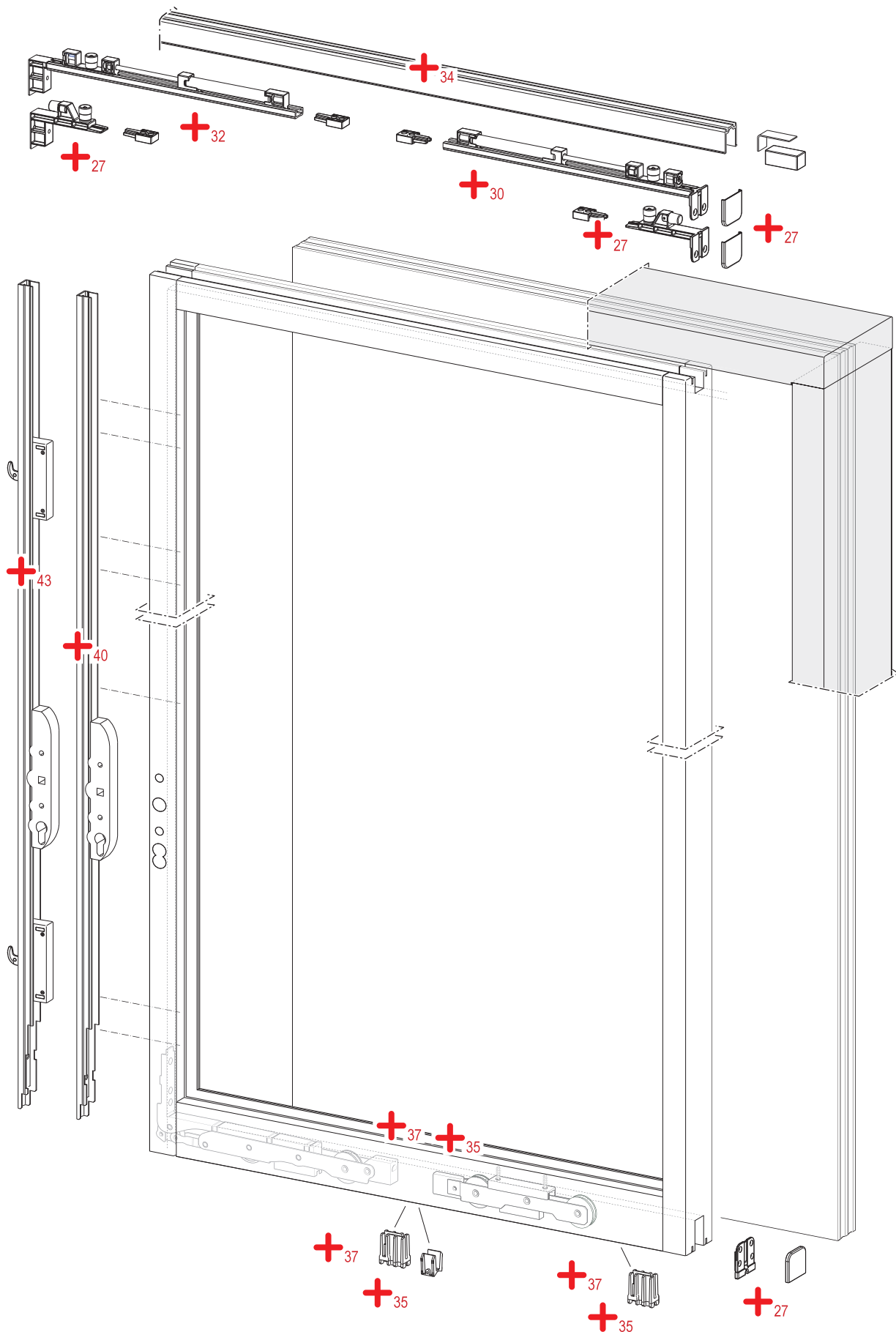


Fixed glass insertion



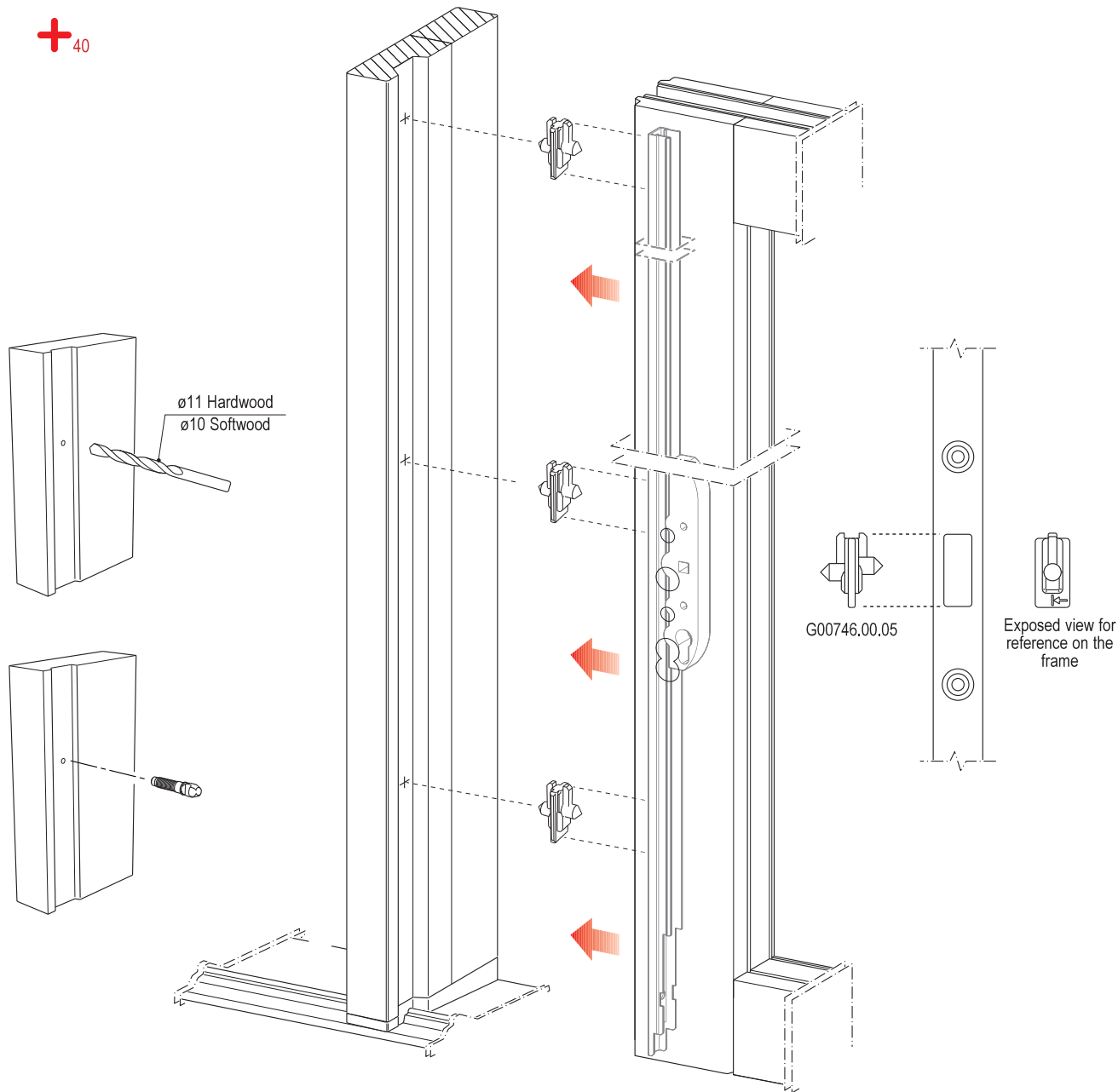
To help the fixed sash installation, please remove the sliding rail from the Climatech threshold.

Accessories for single sash configuration with 22x22 guide

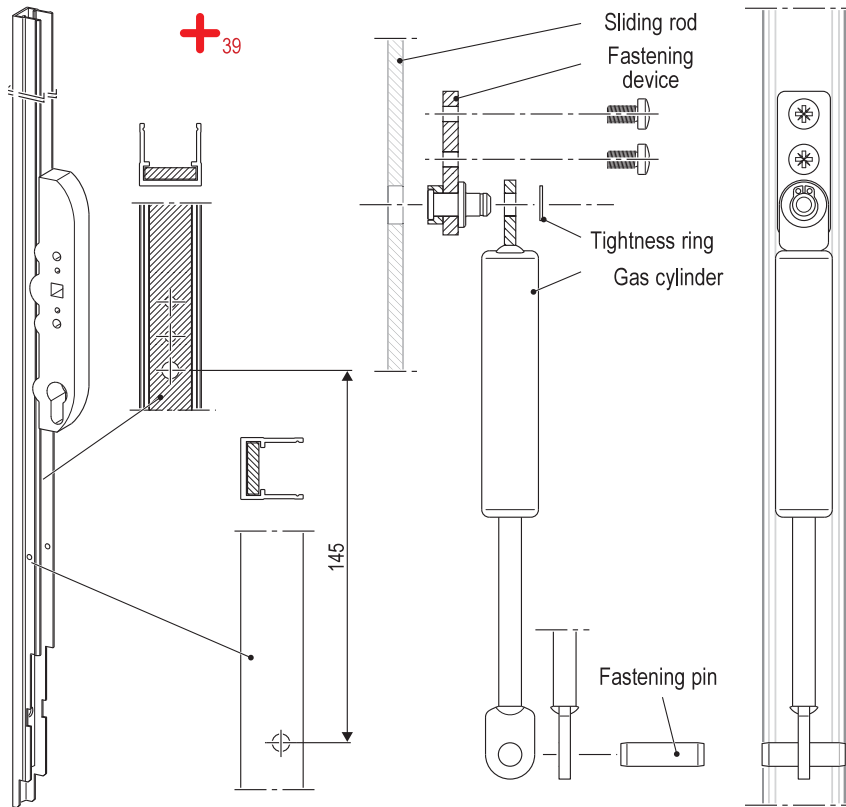


Carriages and locks in the picture are indicative only.

Locking pins installation on wooden pin holder profile



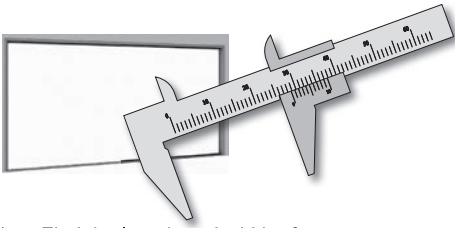
Use of gas spring kit



Formulas of components cut

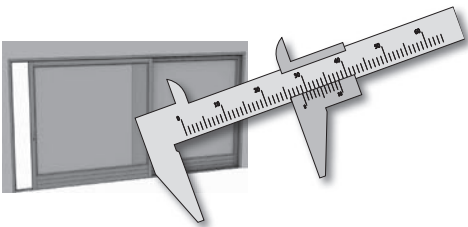
	LAYOUT A		LAYOUT A
	HB-94		LB-644
	MET		LB-575
	MET-2xSMT+3		2 (pieces) 80 mm + 1 (piece) LB-1243
	MET-2xSMT+3		2 (pieces) 80 mm + 1 (piece) LB-1150
	LB-10		
	LBF-40		
	HB-14		
	HB-4		
	HB-14		

STEPS FOR THE PRODUCTION PROCESS CONTROL (FPC)



Frame components measurement and solutions for air-water tightness

- 1 - Find the length and width of upper transom and vertical jambs.
- 2 - Check the length and depth of millings to host the aluminium upper guide and wooden listels are compliant to what indicated in this technical manual.
- 3 - Check the width and length of listels.
- 4 - Check that the length of threshold, the sliding profile and the glass holder profile corresponds to the indications of this technical manual.



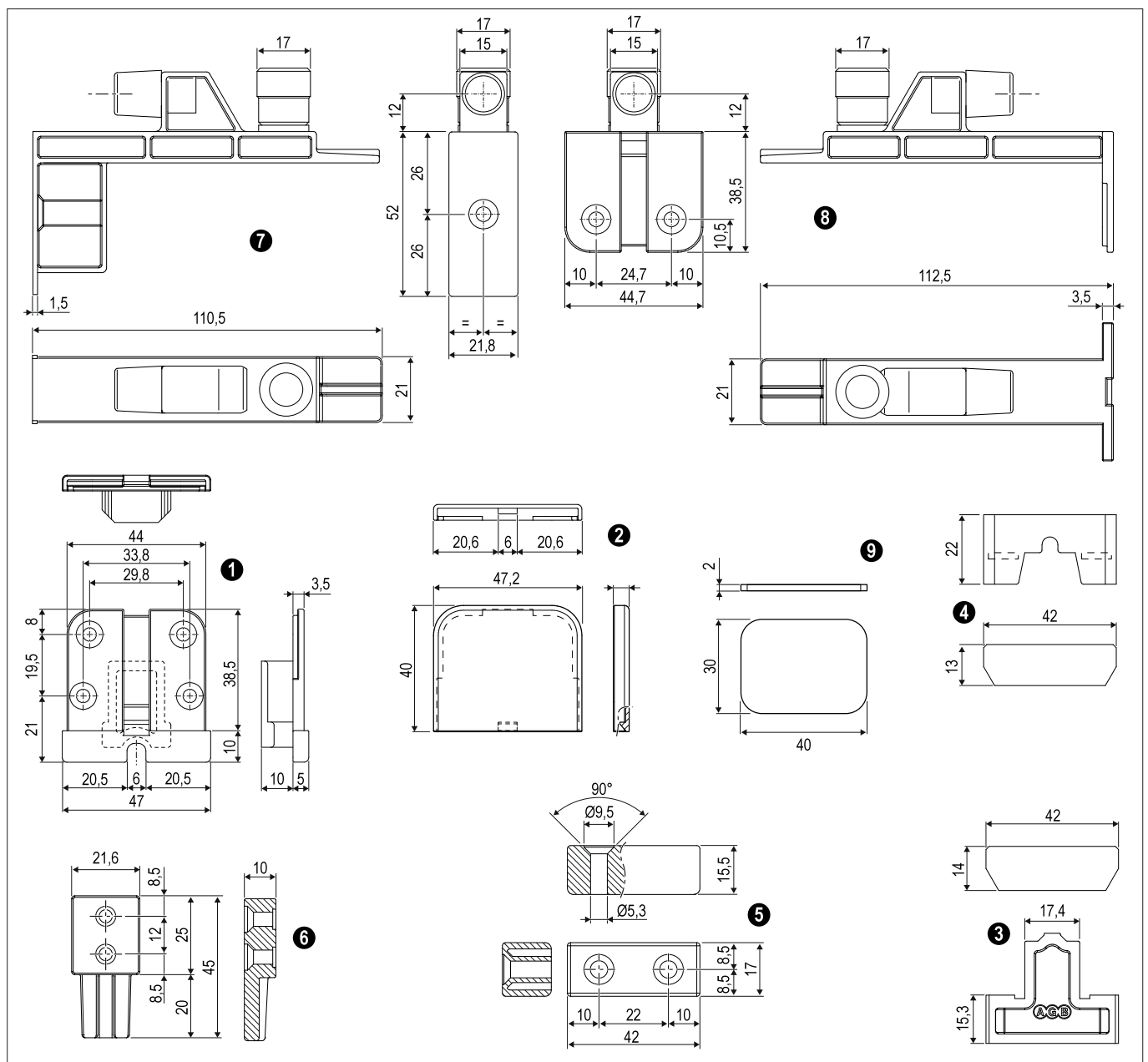
Sashes components measurement and solutions for air-water tightness

- 1 - According to the frame measurements, please calculate the sashes measurements according to the indications reported in the technical manual (LxH) and check that sash dimensions are compliant to the ones calculated before.
- 2 - Check the sashes orthogonality (square) measuring the diagonals, it is very important they are equal for the correct functioning and closing.
- 3 - Check the sash adapter is exactly the one indicated in this manual.
- 4 - Check the millings width for the carriages housing and check that they are in the middle of the sash thickness.
- 5 - Check the depth and width of millings to host the gaskets checking the status, they can't have dirt or glue/paint.
- 6 - Check the depth and position the lock milling.
- 7 - Check the coplanarity of jamb/lower transom joints, eventually level with stucco in order to keep the tightness strong.
- 8 - The double glazing glass has to be siliconed flush to the rebate, perimetrically from outside, on wooden frames and aluminium glass holder profile.
- 9 - Silicone even on internal glass holder or use specific gaskets.
- 10 - Make a silicone bead around perimeter inside the external lower gasket groove before inserting it.

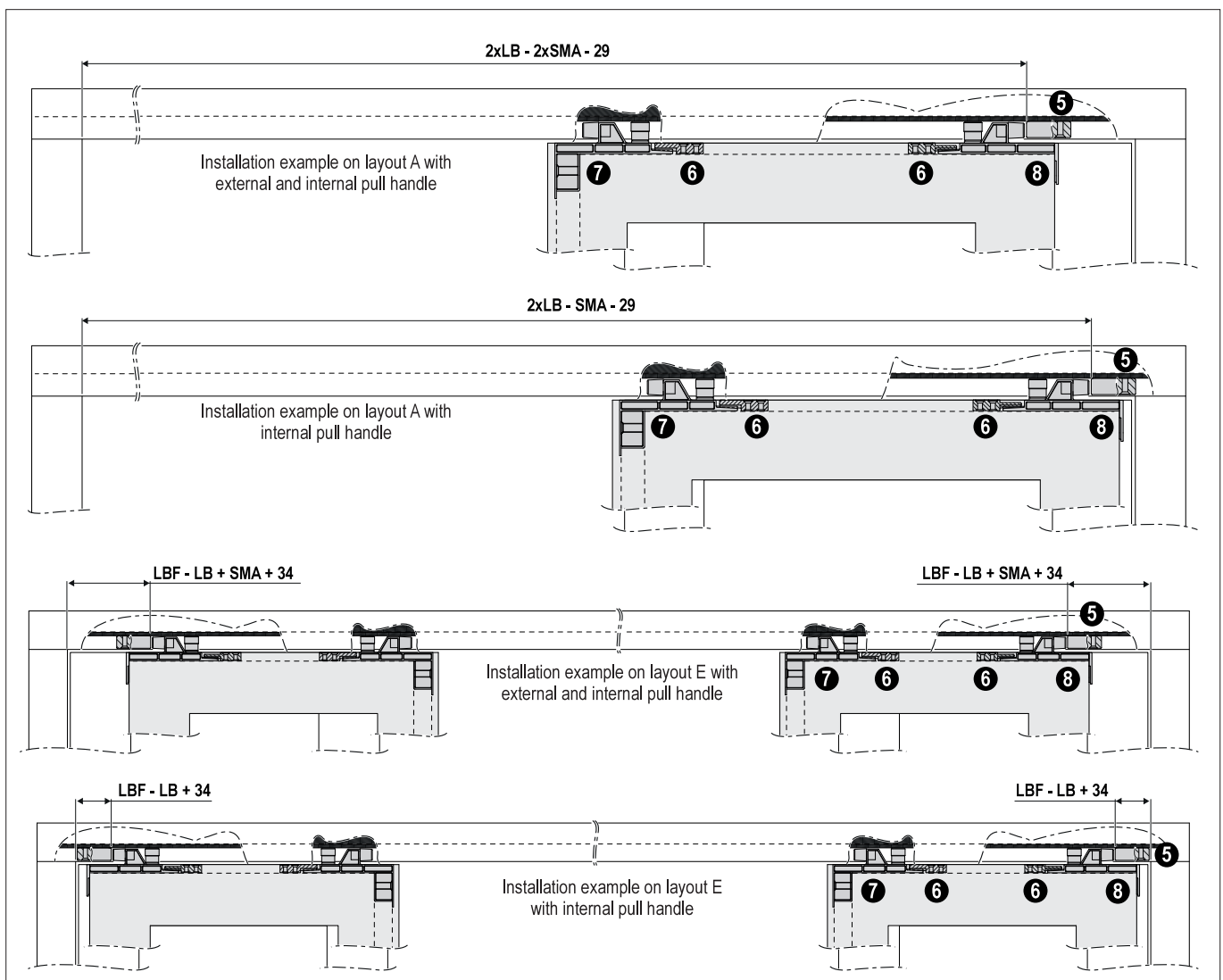
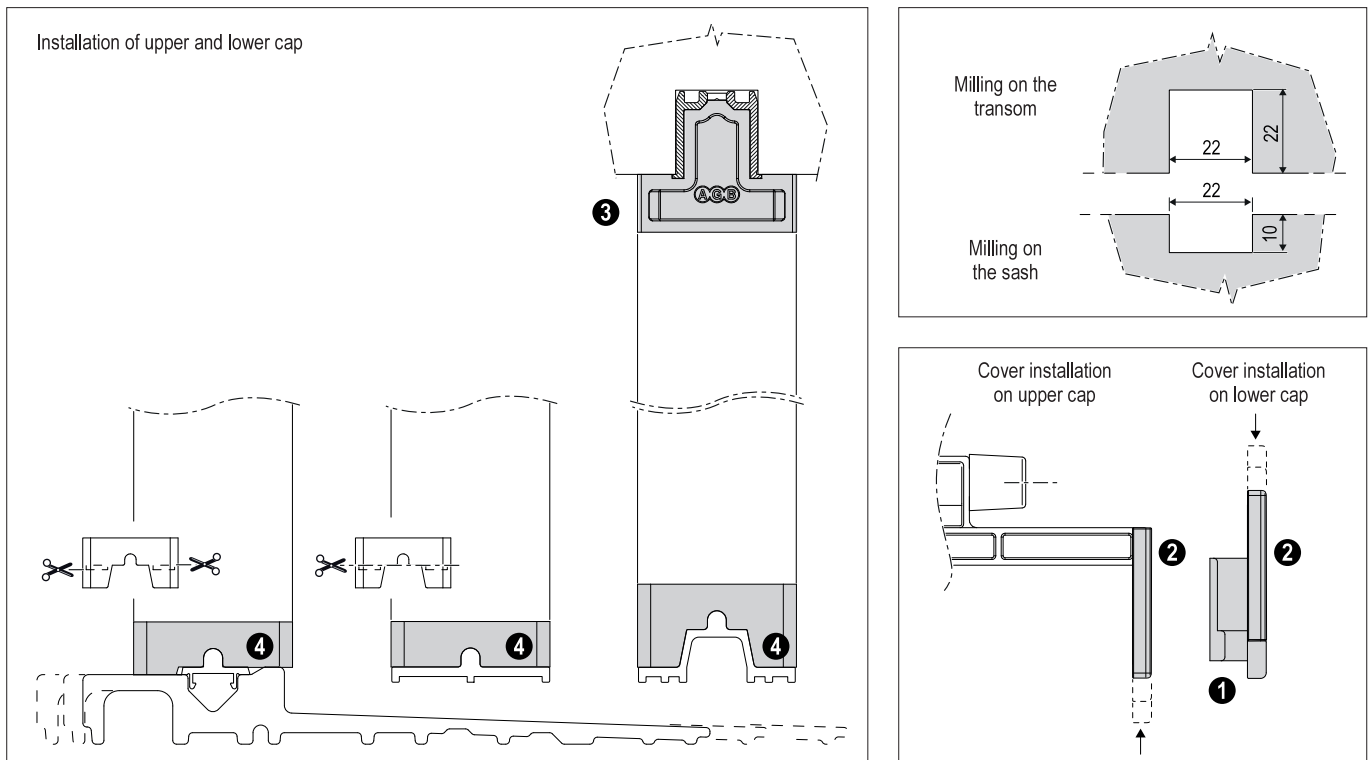
TECHNICAL ATTACHMENTS

Caps kit for embedded upper guide 22x22

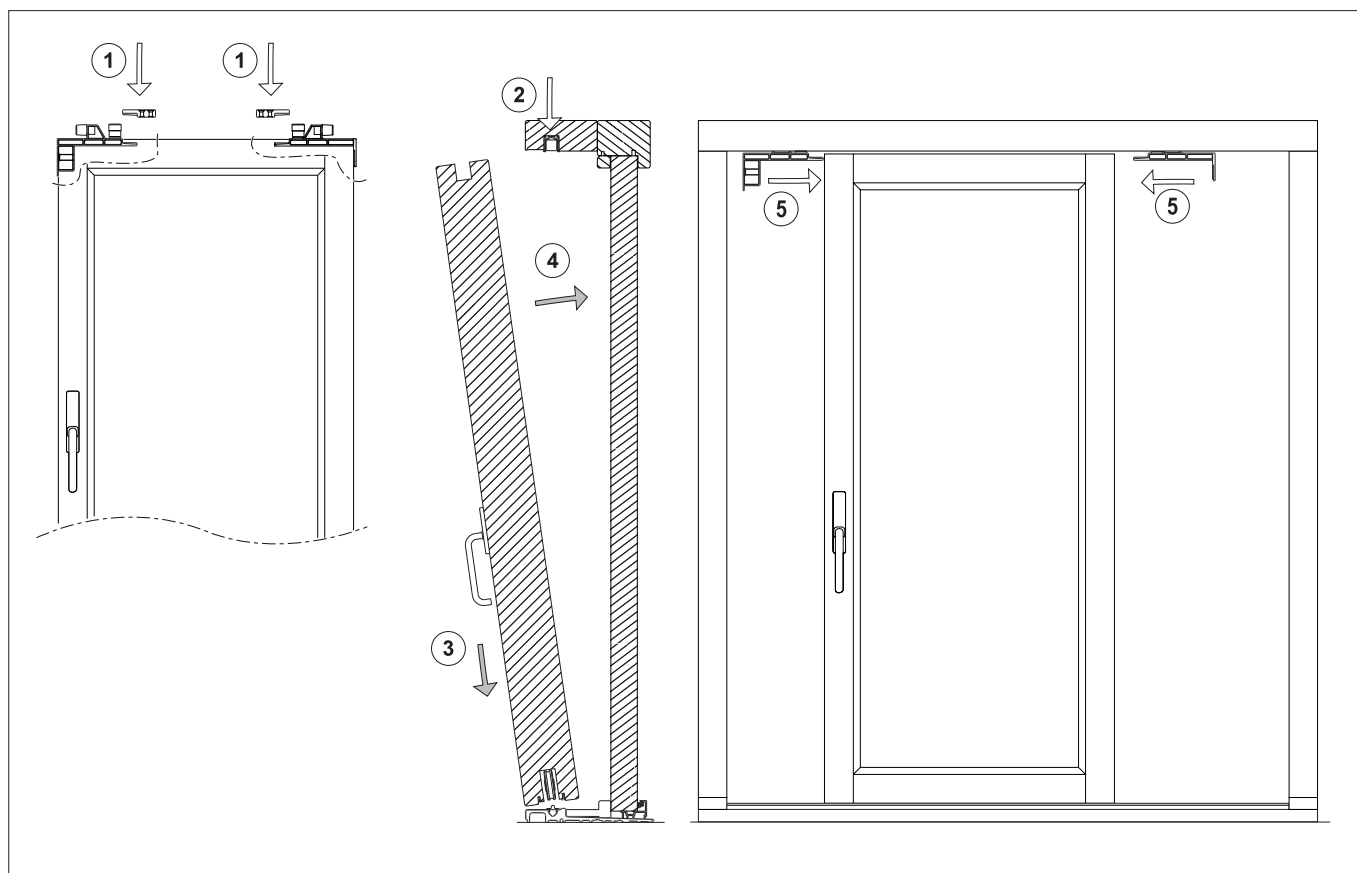
Article	Ref.	Description	Material	Use	Fastening
Rear lower cap	❶	It covers the carriage milling of the lower transom.	Plastic material	It covers the sash lower milling.	3,5x20 mm screws.
Cover (2x)	❷	Cover for the lower cap and the rear bumper glider.	Plastic material	It covers the lower cap and the fastening of the upper rear glider.	Snap-in
Shaped cap for upper guide	❸	Cap to be inserted between the locking profile and the guide.	Rubber	To be jointed.	To be inserted with silicone.
Shaped cap for lower rail	❹	To guarantee the system tightness.	Rubber	Apply under the profile with silicone on the back.	
Device for frame guide	❺	Rebate for the glider pad or for the damper.	Zamak	To be placed and fastened into the upper guide.	4x45 mm screws.
Glider fastening hold-device and damper (2x)	❻	Mechanical block of the glider.	Zamak	Fasten using front and rear caps as a jig.	4x30 mm screws.
Front cap with reference glider	❼	Sliding glider and closing brake.	Plastic material / zamak / steel	To fasten the sash in opening.	4x30 mm screws.
Damper kit with closing brake	❽	Sliding glider and opening brake.	Plastic material / zamak / steel	To fasten the sash in opening.	4x30 mm screws.
Fixed sash adapter (x4)	❾	Filling adapter for fixed sash.	Plastic material	Compensator adapter between sash and frame.	To be inserted.



Caps kit for embedded upper guide 22x22



Caps kit for embedded upper guide 22x22

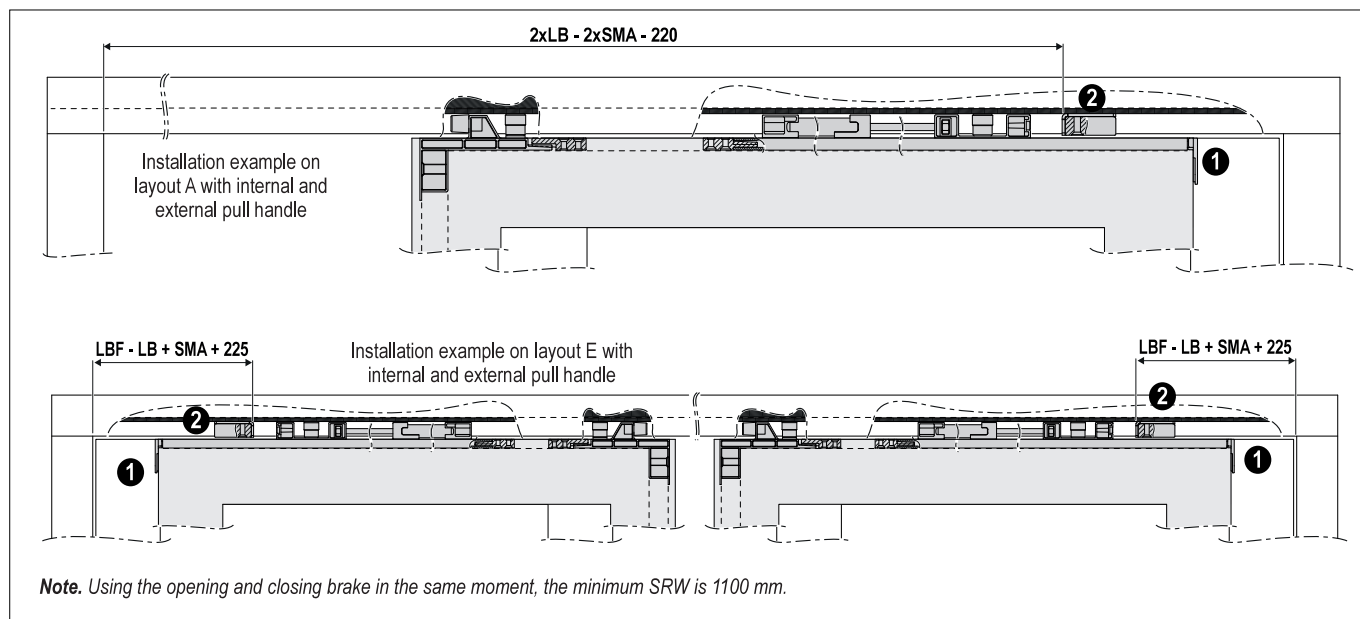
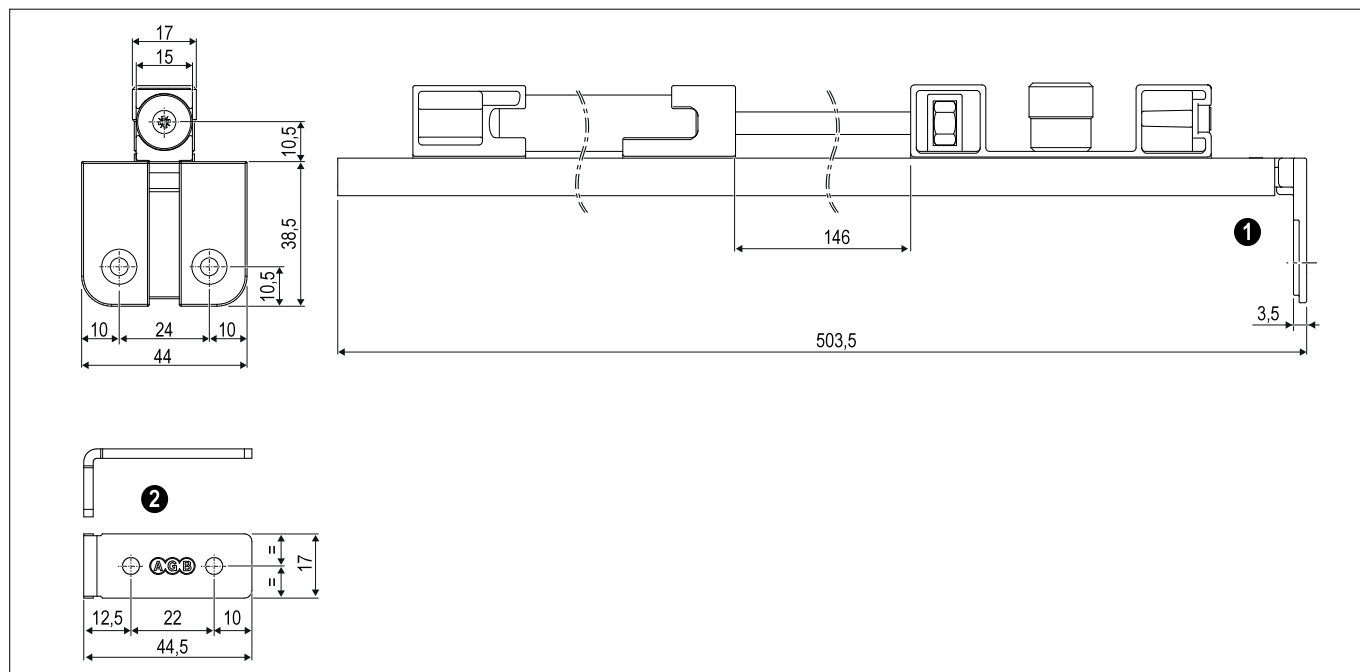


- ① Using the glider/s as a jig, fasten the hold device/s into the sliding sash, not installed yet; then, remove the caps;
- ② Place the device/s in the right position indicated in this technical documentation;
- ③ Place the sash on the rail with the carriages in opening position;
- ④ Place the sash in vertical position;
- ⑤ Fasten the gliders on the sliding sash.

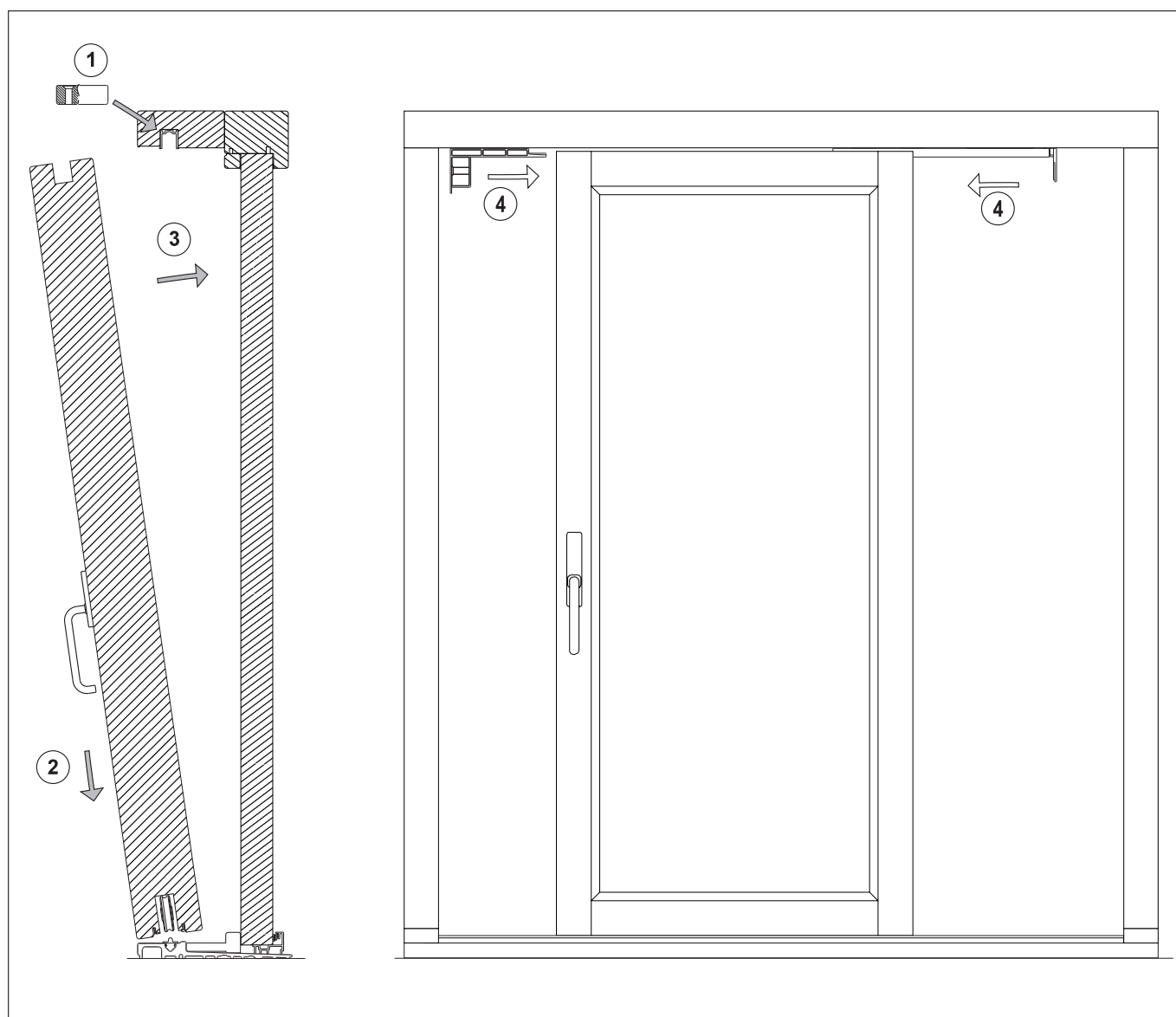
Article	Grey RAL 7035	Black
Caps kit for embedded upper guide 22x22	G00232.00,86	G00232.00,93

Damper kit with opening brake

Article	Ref.	Description	Material	Use	Fastening
Rear cap with glider as a guide	❶	Sliding glider and opening brake.	Plastic material / zamak / steel	To fasten the sash in opening.	4x30 mm screws.
Magnetic contrast	❷	It allows the damper activation in closing/opening.	Steel	To be applied under the contrast as a guide if you use the brake.	4x30 mm screws.



Damper kit with opening brake

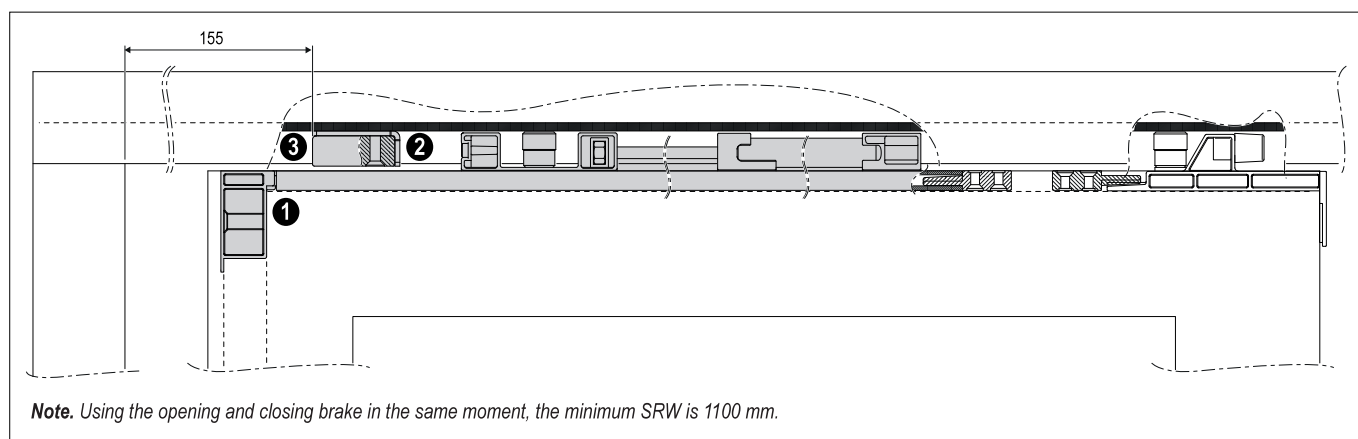
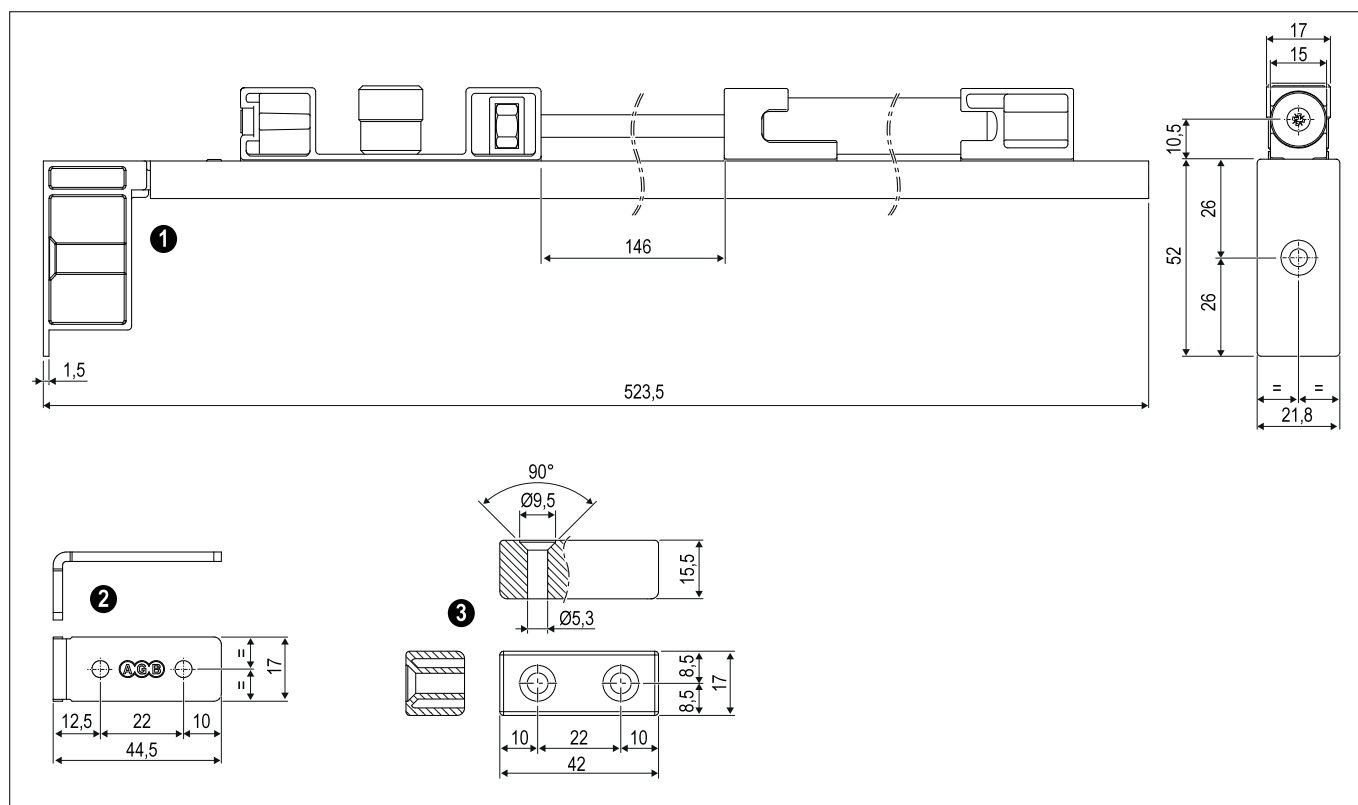


- ① Place the device/s in the right position indicated in this technical documentation;
- ② Place the sash on the rail with the carriages in opening position;
- ③ Place the sash in vertical position;
- ④ Fasten the gliders on the sliding sash.

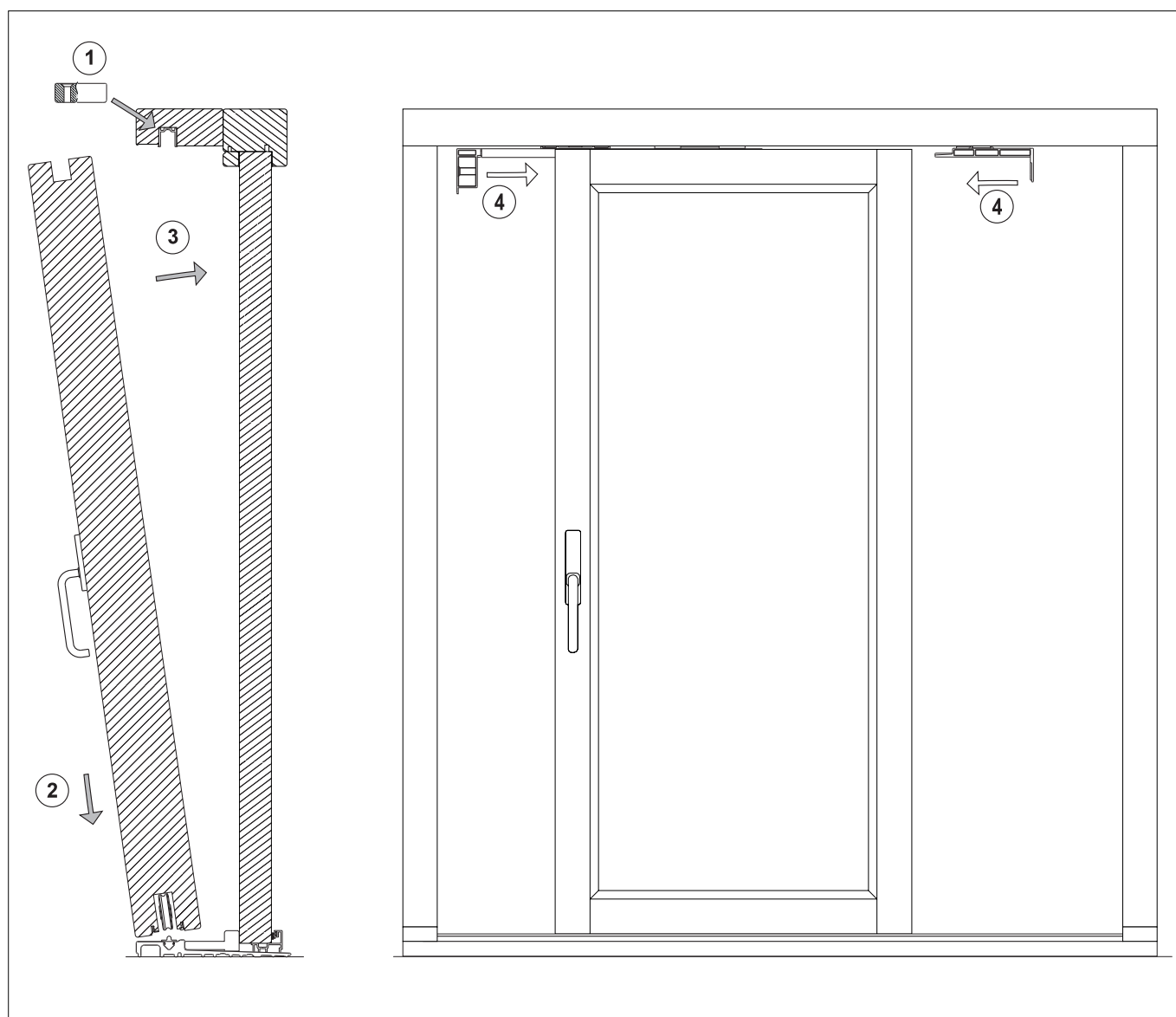
Article	Grey RAL 7035	Black
Loading capacity 80-200 kg	G00232.13.86	G00232.13.93
Loading capacity 200-440 kg	G00232.14.86	G00232.14.93

Damper kit with closing brake

Article	Ref.	Description	Material	Use	Fastening
Front cap with damper	❶	Sliding glider and closing brake.	Plastic material / zamak / steel	To stop the sash in opening.	4x30 mm screws.
Magnetic contrast	❷	It allows the damper activation in opening.	Steel	To be applied under the contrast as a guide if you use the brake.	4x45 mm screws.
Device for frame guide	❸	Rebate for the glider pad or for the damper.	Zamak	-	4x45 mm screws.



Damper kit with closing brake

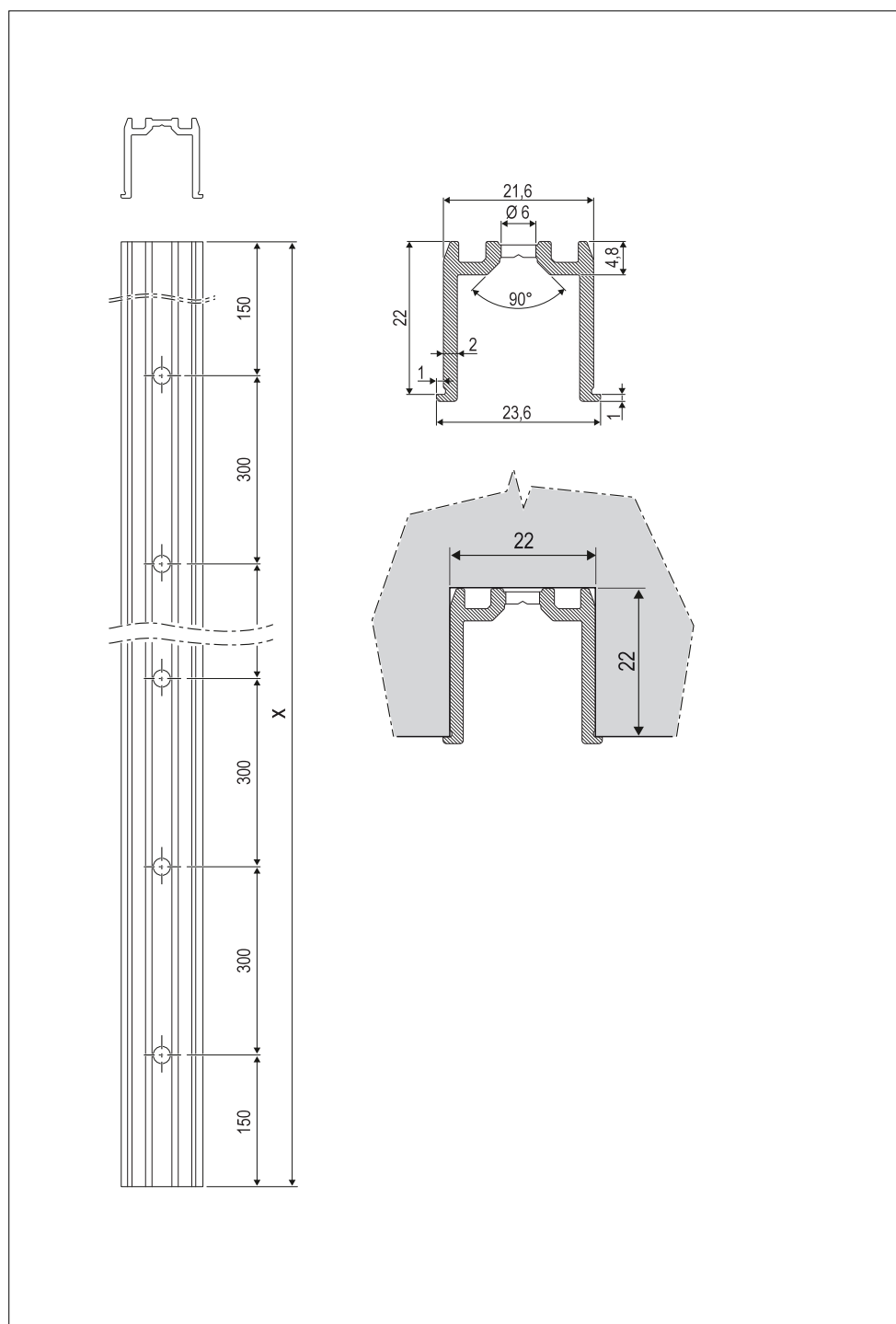


- ① Place the device/s in the right position indicated in this technical documentation;
- ② Place the sash on the rail with the carriages in opening position;
- ③ Place the sash in vertical position;
- ④ Fasten the gliders on the sliding sash.

Article	Grey RAL 7035	Black
Loading capacity 80-200 kg	G00232,11,86	G00232,11,93
Loading capacity 200-440 kg	G00232,12,86	G00232,12,93

Embedded upper guide 22x22

Article	Ref.	Description	Material	Use	Fastening
Embedded upper guide	1	Guide for sliding gliders of the sliding sash, compatible with AGB systems of closing/opening brake.	Aluminium	Insert in the dedicated milling of the frame upper transom.	4x25 mm screws.



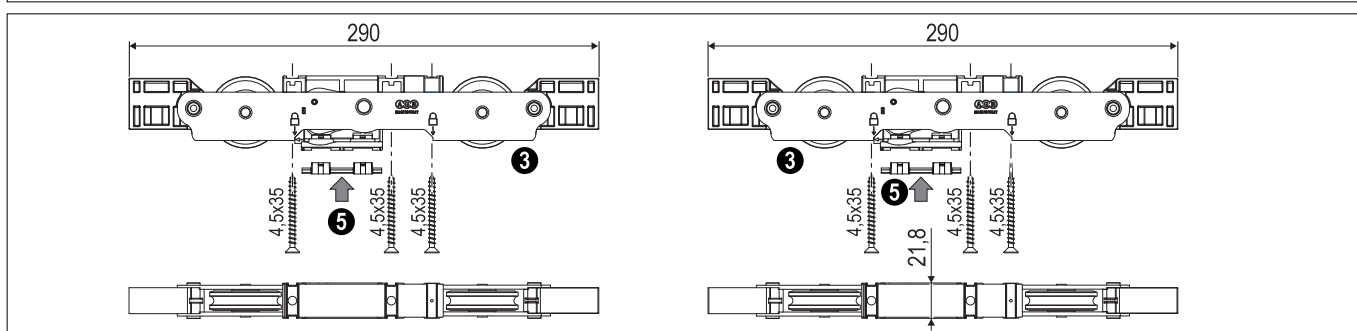
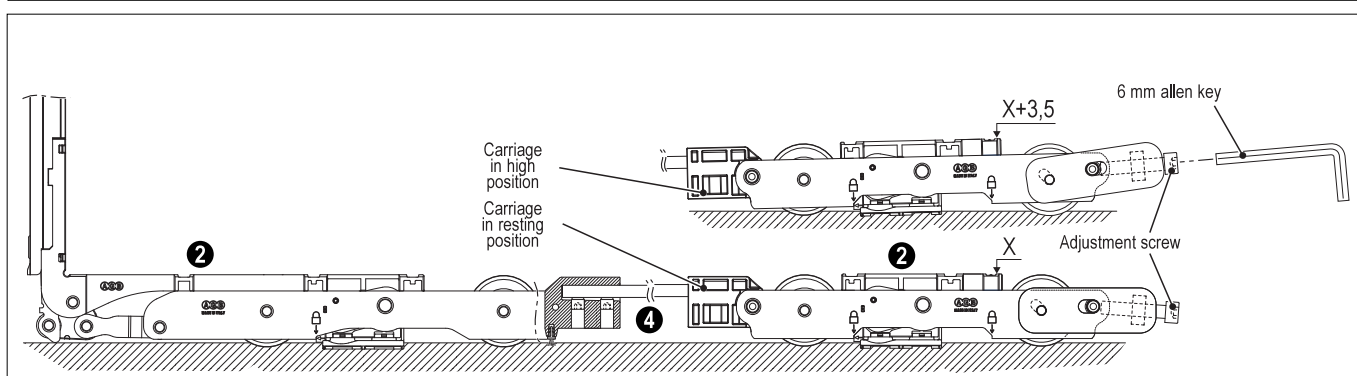
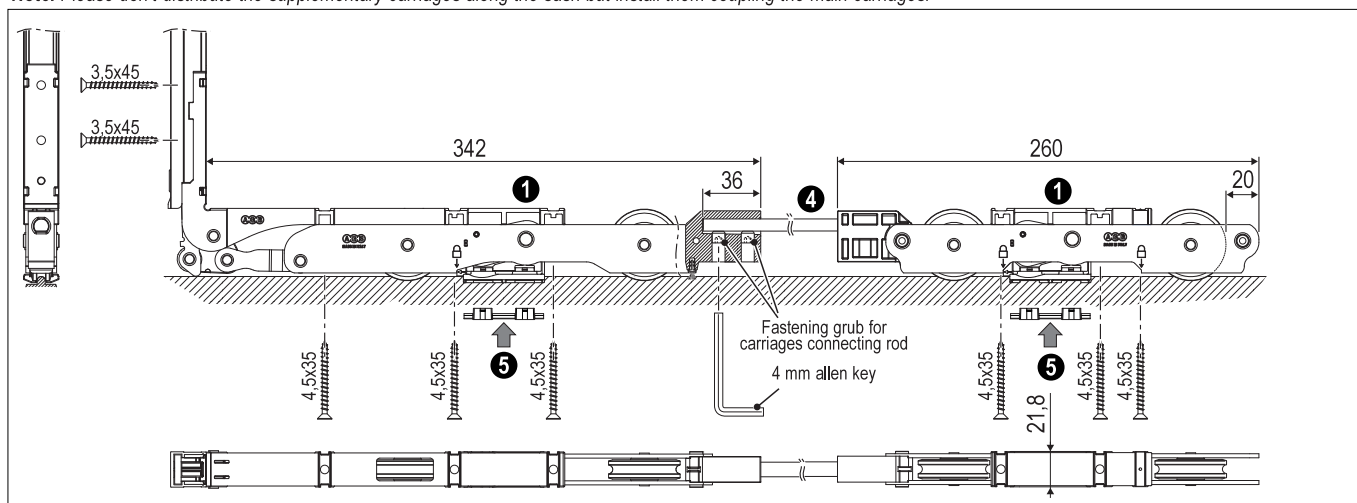
Ref.	Article	Article code, in Silver	Article code, in Electrocolour	X
1	Embedded upper guide	G01002.01.01	G01002.01.02	3000
		G01002.02.01	G01002.02.02	4000
		G01002.03.01	G01002.03.02	5000
		G01002.04.01	G01002.04.02	6000
		G01002.05.01	G01002.05.02	7000

330 kg carriages kit, 440 kg supplementary carriages kit, carriages connecting rod

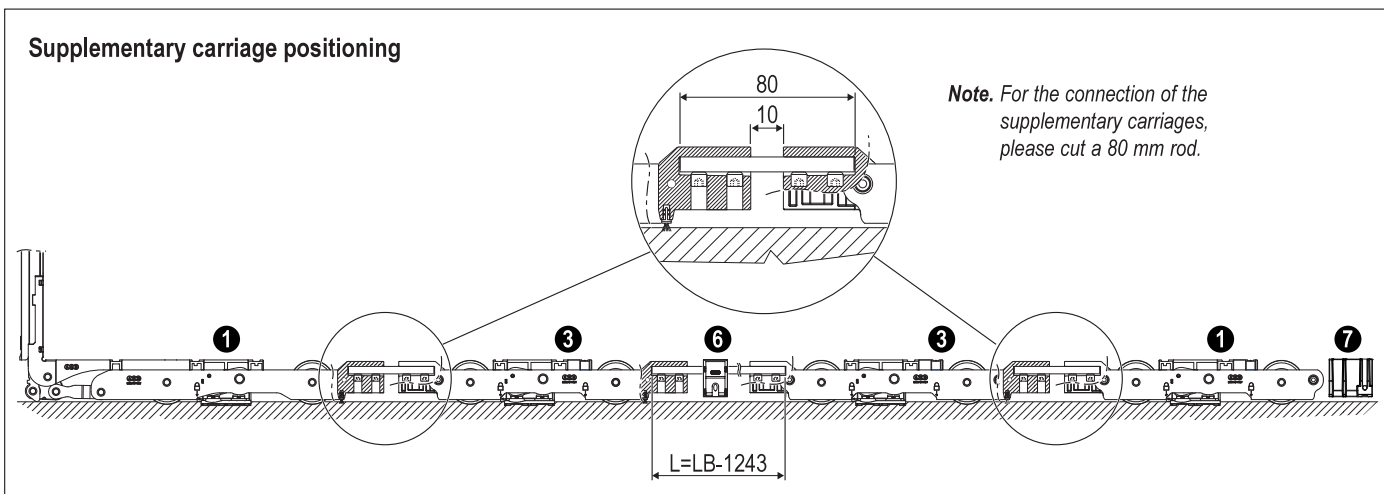
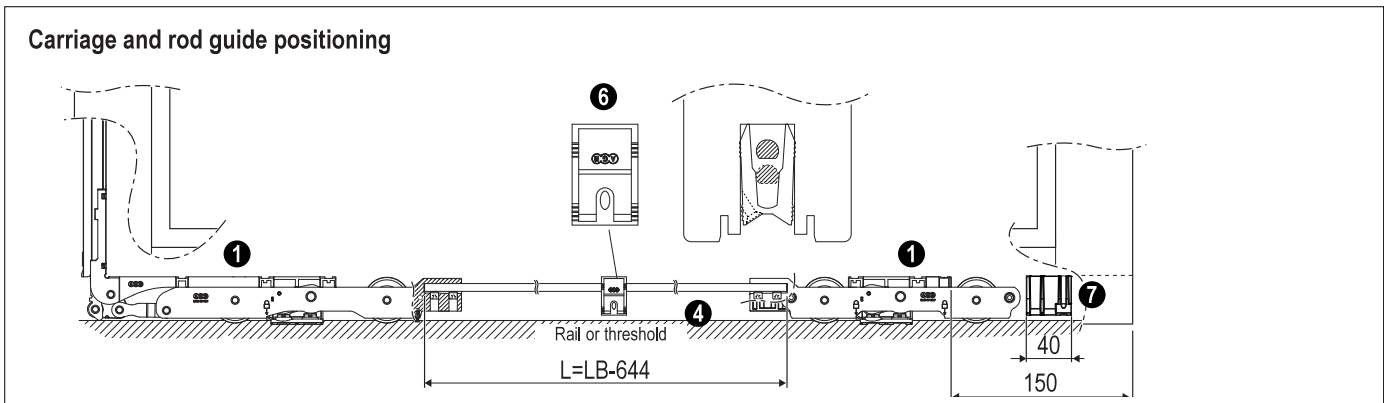
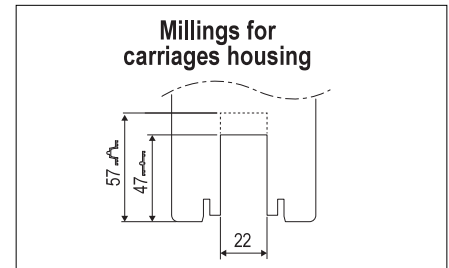
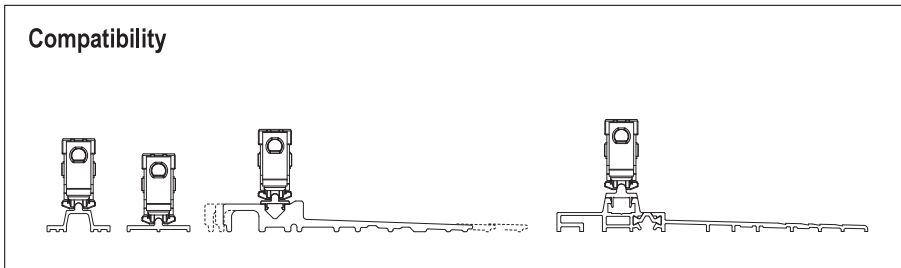
Article	Ref.	Description	Material	Use	Fastening
Carriages kit, 300 kg	1	Two carriages (front and rear, non-handed) with lift device and lever and rings. The connection between the two carriages is provided by the through cuttable rod. The hooking of the connecting rod is guaranteed by locking grubs with milled base to avoid possible loosening.	Steel	Sliding sashes of weight ≤ 330 Kg	Screws 4,5x35 mm
Carriages kit, 300 kg with adjustable rear carriage	2	Standard front carriage; rear carriage with +3,5 mm in height.			
Supplementary carriages kit	3	Two carriages with lift device. Each carriage has to be coupled to a carriage of the 330 kg kit (front and rear) through connecting rod and locking grubs.	Steel	Sliding sashes of weight ≥ 330 Kg and ≤ 440 kg	Screws 4,5x35 mm
Carriages connecting rod	4	It ensures the connection between a carriage and the other and transfers the movement of opening/closing.	Steel	Cuttable 1 piece	Grubs provided
Bumper / support	5	It allows to download the carriage weight from the sash to the snap-in rail; suitable for aluminium systems where the sash weight in closing position can't be downloaded to the gaskets.	Plastic material	1 for each carriage	Snap-in rail
Rod guide	6	Inserted into the carriage milling, it ensures the correct operation of connecting rod.	Plastic material	1 for each sliding sash	Screws 4x30 mm
Anti-derailed adapter	7	Dedicated zamak adapter that prevents the derailing movement of sliding sash carriages after forces which are orthogonal to the sliding axis (e.j. weather conditions).	Zamak	Install 2 devices on each central sash; install 1 block on each side sash	Screws 4x30 mm

Note. Level the glass in order to download the weight evenly in correspondence to the carriages.

Note. Please don't distribute the supplementary carriages along the sash but install them coupling the main carriages.



330 kg carriages kit, 440 kg supplementary carriages kit, carriages connecting rod



Application fields				
Carriages connecting rod	330 Kg		440 Kg (with supplementary carriages)	
	Min. SW	Max. SW	Min. SW	Max. SW
1000	645	1644	1245	2083
1400		2044		2483
1800		2444		2883
2700		3344		3783

Ref.	Description	Code	Length
1	Carriages kit, 330 kg	G04104.00.00	-
2	Carriages kit, 330 kg, with adjustable rear carriage	G04114.00.00	-
3	Supplementary carriages kit (440 kg)	G04108.00.00	-
4	Carriage connecting rod	G04601.00.01	1000
		G04601.00.02	1400
		G04601.00.03	1800
		G04601.00.04	2700

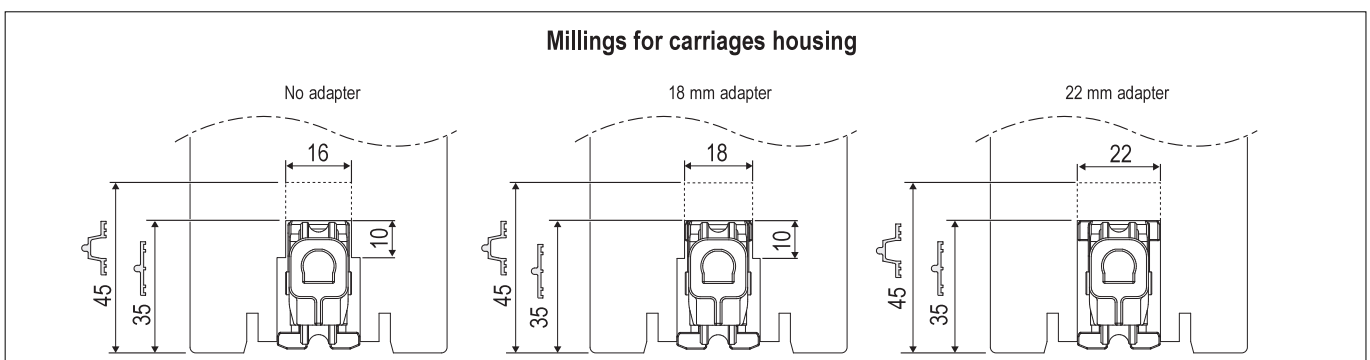
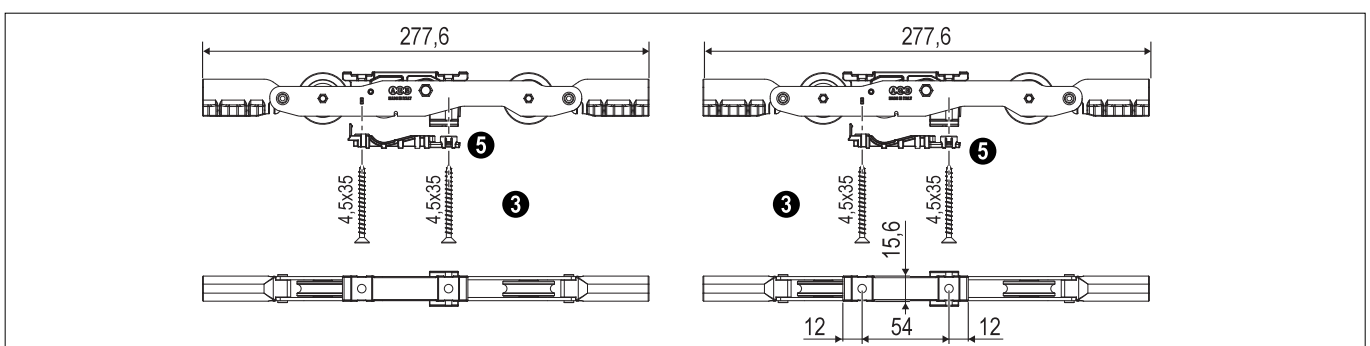
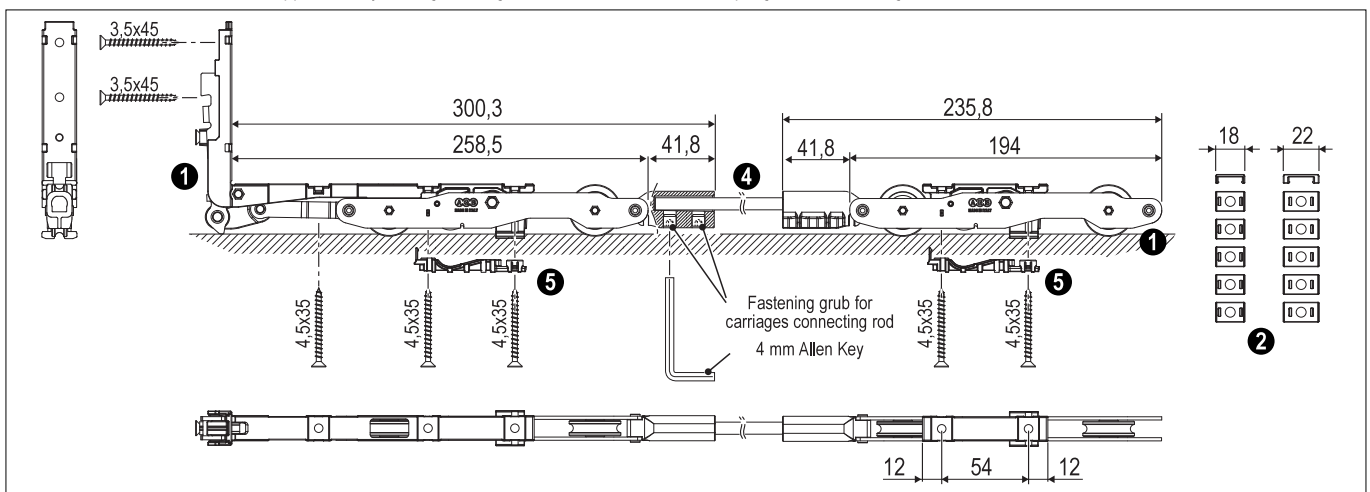
Ref.	Description	Code
5	Bumper - support	G01437.00.86
6	Rod guide	G05102.00.00
7	Anti-derailed device	G01611.02.00

250 kg XC S-Line carriages kit, 400 kg XC S-Line supplementary carriages kit, XC carriages connecting rod

Article	Ref.	Description	Material	Use	Fastening
Carriages kit, XC S-Line 250 Kg	①	Two carriages (front and rear, non-handed) with lift device and lever and rings. The connection between the two carriages is provided by the through cuttable rod. The hooking of the connecting rod is guaranteed by locking grubs with milled base to avoid possible loosening.	Steel	Sash weight \leq 250 Kg	Screws 4,5x35 mm
	②	The adapters allow the carriages assembly on 18 and 22 mm millings.	Plastic material	Use to install the carriages on 18 and 22 mm millings	Clip
Supplementary carriages kit XC S-Line 400 kg	③	Two carriages with lever lifting device and guides. Each carriage has to be coupled with one of the XC S-Line carriages kit (front and rear) by connecting rod and fastening grubs.	Steel	Sash weight $>$ 250 Kg and \leq 400 kg	Screws 4,5x35 mm
Connecting rod	④	It ensures the connection between a carriage and the other and transfers the movement of opening/closing.	Steel	Cut 1 piece	Grubs provided
Stop / support	⑤	It allows to download the carriage weight from the sash to the snap-in rail; suitable for aluminium systems where the sash weight in closing position can't be downloaded to the gaskets.	Plastic material	1 for each carriage	Snap-in rail
Rod guide	⑥	Inserted into the carriage milling, it ensures the correct operation of connecting rod.	Plastic material	1 for each sliding sash. Do not use on 16 mm width milling.	Screws 4x30 mm
Anti-derailed adapter	⑦	Dedicated zamak device that prevents the carriages derailment of the sliding sash after orthogonal pushes on the sliding axis (for example weather agents).	Zamak	Install 2 blocks on each central sash; install 1 block on each side sash. Do not use on 16 mm width milling.	Screws 4x30 mm

Note. Level the glass in order to download the weight evenly in correspondence to the carriages.

Note. Please don't distribute the supplementary carriages along the sash but install them coupling the main carriages.

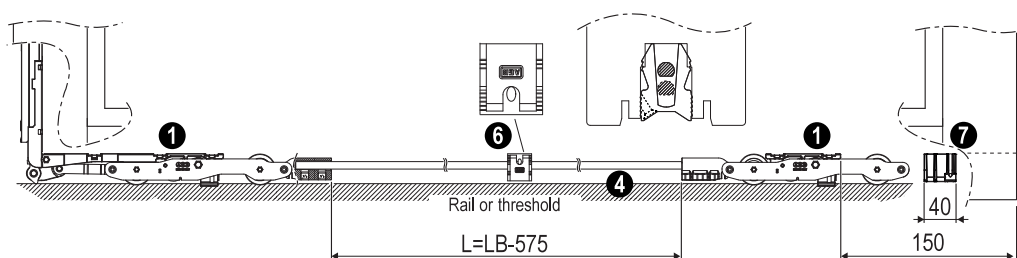


250 kg XC S-Line carriages kit, 400 kg XC S-Line supplementary carriages kit, XC carriages connecting rod

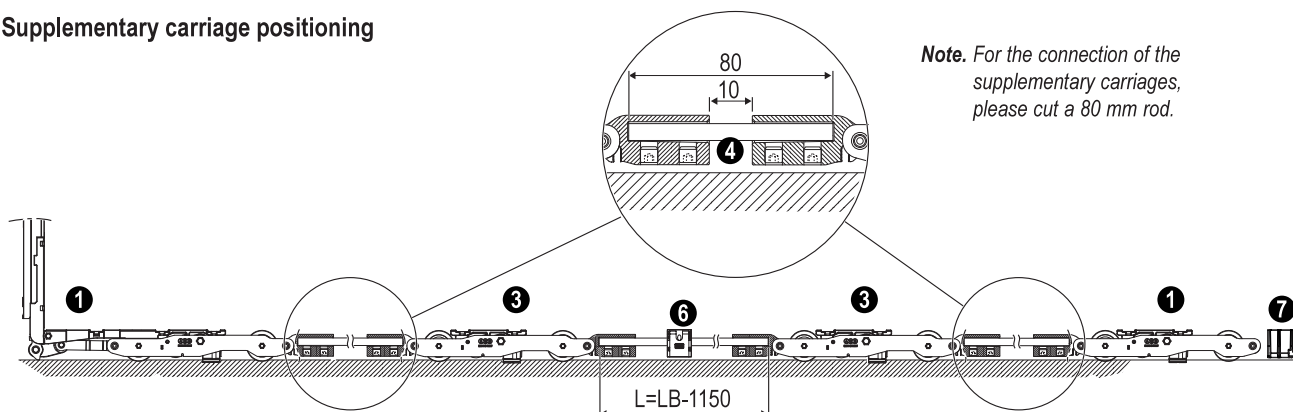
Compatibility



Carriage and rod guide positioning



Supplementary carriage positioning



Note. For the connection of the supplementary carriages, please cut a 80 mm rod.

Application fields				
Length of connecting rod	250 Kg		400 Kg (with supplementary carriages)	
	Min. SW	Max. SW	Min. SW	Max. SW
1000	580	1575	1160	1990
1400		1975		2390
1800		2375		2790
2700		3275		3690

Ref.	Description	Code	Length
1	250 kg carriages kit	G04109.00.00	-
3	400 kg supplementary carriages kit	G04110.00.00	-
4	Carriage connecting rod	G04601.00.01	1000
		G04601.00.02	1400
		G04601.00.03	1800
		G04601.00.04	2700

Ref.	Description	Code	Length
5	Bumper - support	G02142.00.XX	-
6	Rod guide	G05104.00.00	-
7	Anti-derailed device	G01611.01.00	-

Gas spring kit and sensors

Article	Ref.	Description	Use	Fastening
Gas spring kit	❶	Gas cylinder that helps the sash opening movement (lifting) and reduce the speed of the handle.	Apply in suitable holes into the movable rod and in the aluminium profile of the lock. Please use with sashes of weight ≥ 200 Kg.	Screws are provided. Note. Please assemble the gas spring with lock in opening position and lying spring.
Sensors	❷	Magnet and sensor for the control of opening.	Apply the magnet in the suitable hole of the movable rod and the sensor in the hole to realise the pin holder profile.	To joint
Magnet	❸	Magnet with clip for lock.	Apply the magnet in the dedicated hole of the movable rod.	With clip

Gas spring installation

Fasten the carriages and the connecting rod to the carriages.
Unlock the carriages and put them in opening position.
Assemble the lock (with gas spring) in opening position.

❶

❷

❸

Place the kit in specific holes under the handle

Identification of dedicated holes

Assembly order

❶

Installation of reed sensors

Find the point where the sensor and the magnet have to be installed

Please make a hole $\varnothing 12$ mm (aluminium pin holder profile)

Please make a hole $\varnothing 12$ mm (wooden pin holder profile)

❷

Reed sensor

❷

Reed sensor

❸

Magnet holder with clip

❸

Magnet holder with clip

Pin holder profile

Lock

1330

Ref.	Article	Article code
❶	Gas spring kit	GMG702.04.00

Ref.	Article	Article code	Colour
❷	Sensor + cap	G05006.00.86	Grey
		G05006.00.93	Black

Ref.	Article	Article code
❸	Magnet on clip	G05003.00.00

440 Kg locks and specific extensions

Article	Ref.	Description	Material	Use	Fastening
Locks, 440 Kg	❶	10 mm handle hub with radius corner, hole for European cylinder housing.	Forend: aluminium Rod: steel	Choose the lock according to the jamb width and the sliding sash height. Backsets available: 27,5 and 37,5 mm in 5 different heights (see the table).	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm
Lock extension	❷	-	Forend: aluminium Rod: steel	It gives the possibility to add a locking point.	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm
Covering profile	❸	-	Aluminium	It covers the milling.	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm

Screw hole position								
GR	1°	2°	3°	4°	5°	6°	7°	8°
1	17	100,5	208,5	480,5	550,5	658,5		
2	17	100,5	208,5	480,5	950,5	1058,5		
3	17	100,5	208,5	808,5	1080,5	1188,5	1550,5	1658,5
4	17	100,5	208,5	808,5	1080,5	1188,5	1700,5	1808,5
5	17	100,5	208,5	808,5	1080,5	1188,5	2100,5	2208,5

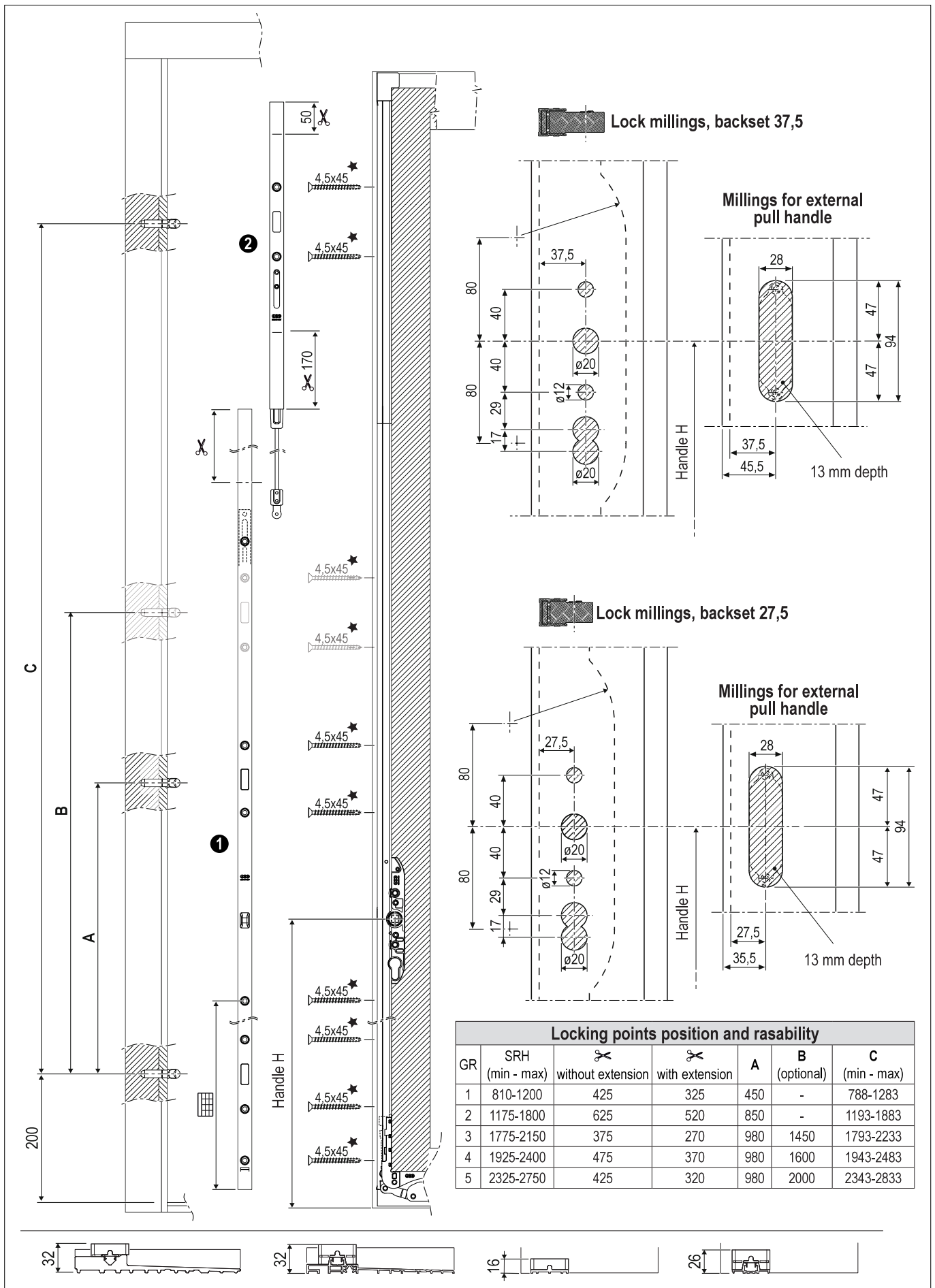
❷

❸

Backset 27,5

Backset 37,5

440 Kg locks and specific extensions



440 Kg locks and specific extensions

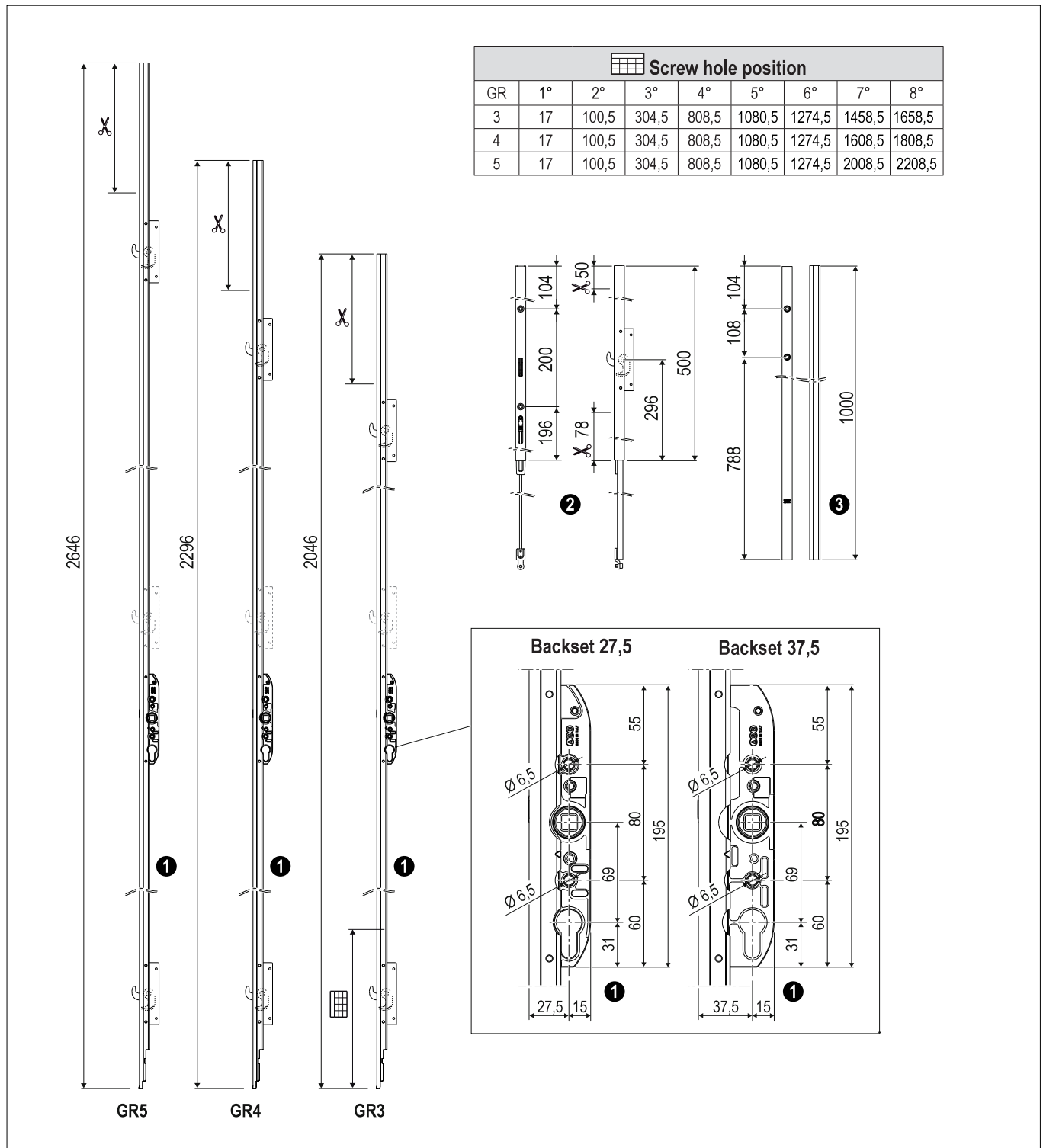
Ref.	Article	GR	Article code, in Silver	Article code, in Electrocolour	SRH ◊	Handle height	Lock height
❶	Lock 440 Kg Backset 27,5	1	G04027.01.01	G04027.01.02	810-1200	400/410	1096
		2	G04027.02.01	G04027.02.02	1175-1800	400/410	1696
		3	G04027.03.01	G04027.03.02	1775-2150	1000/1010	2046
		4	G04027.04.01	G04027.04.02	1925-2400	1000/1010	2296
		5	G04027.05.01	G04027.05.02	2325-2750	1000/1010	2646
	Lock 440 Kg Backset 37,5	1	G04037.01.01	G04037.01.02	810-1200	400/410	1096
		2	G04037.02.01	G04037.02.02	1175-1800	400/410	1696
		3	G04037.03.01	G04037.03.02	1775-2150	1000/1010	2046
		4	G04037.04.01	G04037.04.02	1925-2400	1000/1010	2296
		5	G04037.05.01	G04037.05.02	2325-2750	1000/1010	2646

◊ With upper guide 22x22 cod. G01002.XX.XX, the SRH application field will be reduced up to 10 mm.

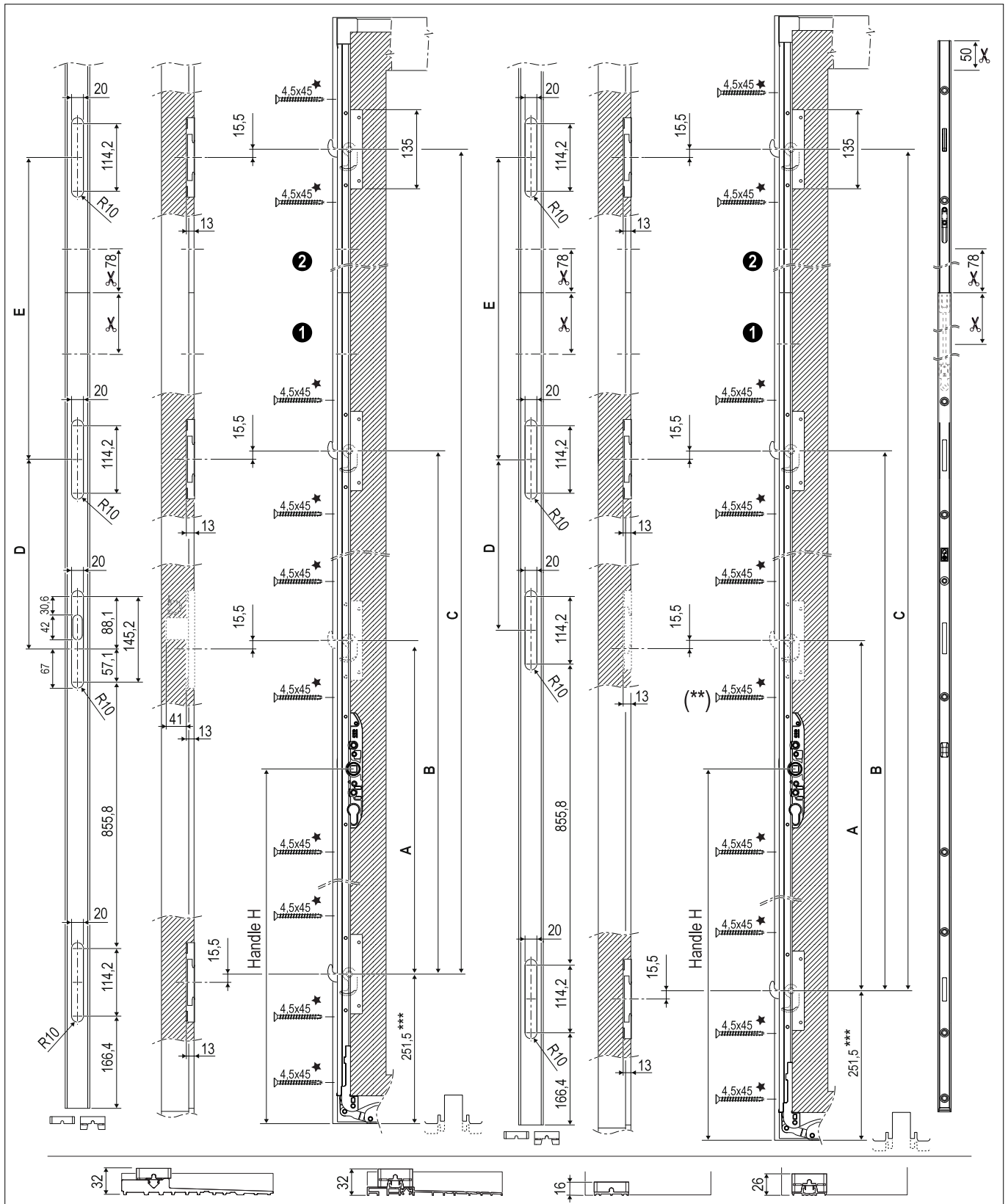
Ref.	Article	Article code, in Silver	Article code, in Electrocolour	Length
❷	Extension with locking point	G04401.01.01	G04401.01.02	500
❸	Covering profile	G04401.02.01	G04401.02.02	1000

440 Kg hook locks and specific extensions

Article	Ref.	Description	Material	Use	Fastening
Locks, 440 Kg	1	10 mm handle hub with radius corner, hole for European cylinder housing.	Forend: aluminium Rod: steel Hooks: steel	Choose the lock according to the jamb width and the sliding sash height. Backsets available: 27,5 and 37,5 mm in 3 different heights (see the table).	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm
Lock extension	2	-	Forend: aluminium Rod: steel Hooks: steel	It gives the possibility to add a locking point.	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm
Covering profile	3	-	Aluminium	It covers the milling.	4,5x45 mm screws ★ For Imago+ use 4,5x40 mm



440 Kg hook locks and specific extensions



Locking points position and rasability

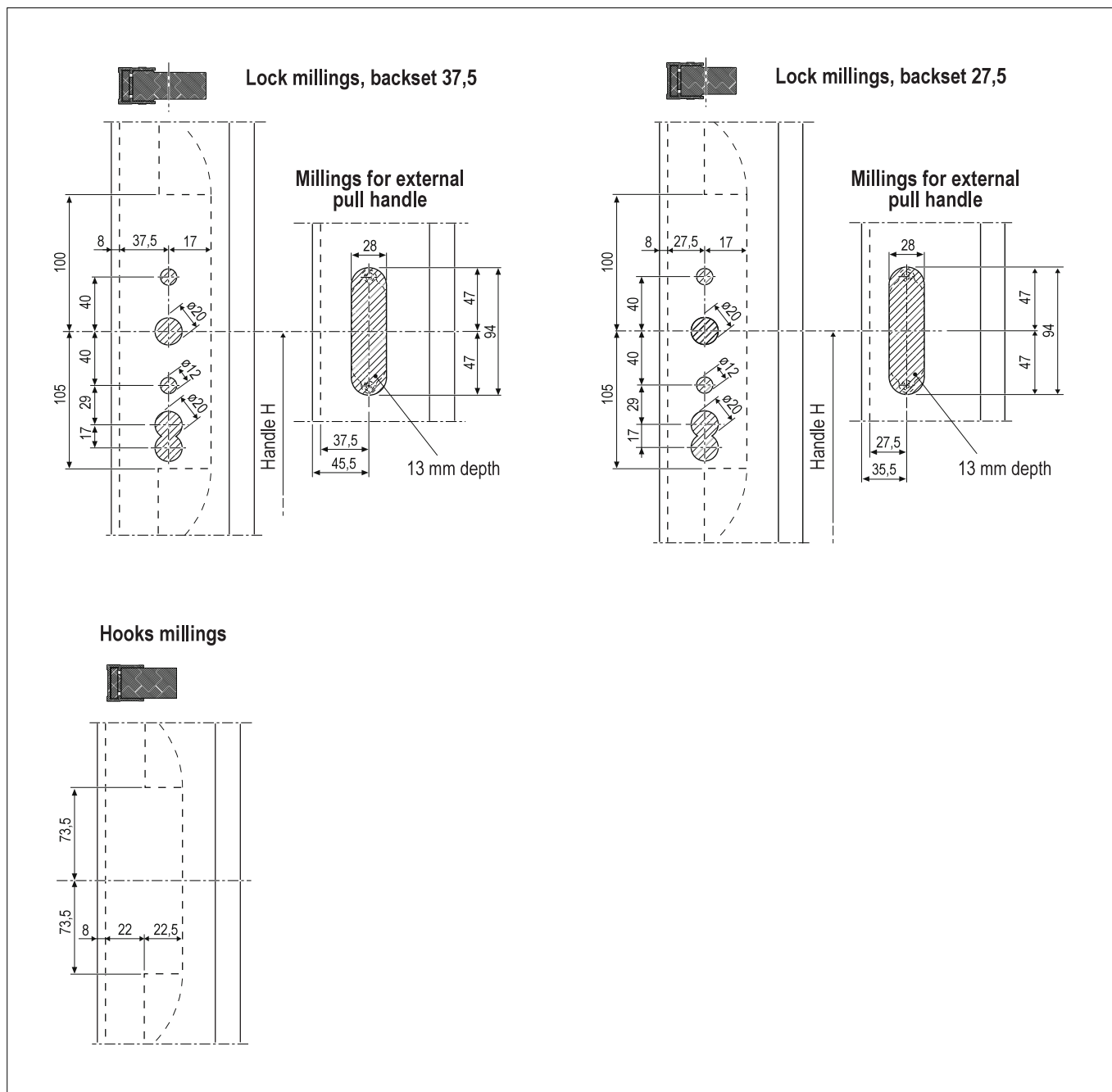
	GR	SRH (min - max)	✂		A (optional)	B	C (min - max)	D	E*
			without extension	with extension					
Without signal system	3	1775-2150	375	270	970	1354	1789,5+2137,5	384	C - B
	4	1925-2400	475	370	970	1504	1939,5+2387,5	534	C - B
	5	2325-2750	425	320	970	1904	2339,5+2737,5	934	C - B
With signal system	3	1775-2150	375	270	970	1354	1789,5+2137,5	384	C - B
	4	1925-2400	475	370	970	1504	1939,5+2387,5	534	C - B
	5	2325-2750	425	320	970	1904	2339,5+2737,5	934	C - B

* For rasability check instructions Z90322.14.81

** In case of optional hook use, pre-drill for the screw.

*** In case of a high rail use, the distance is 10 mm higher.

440 Kg hook locks and specific extensions



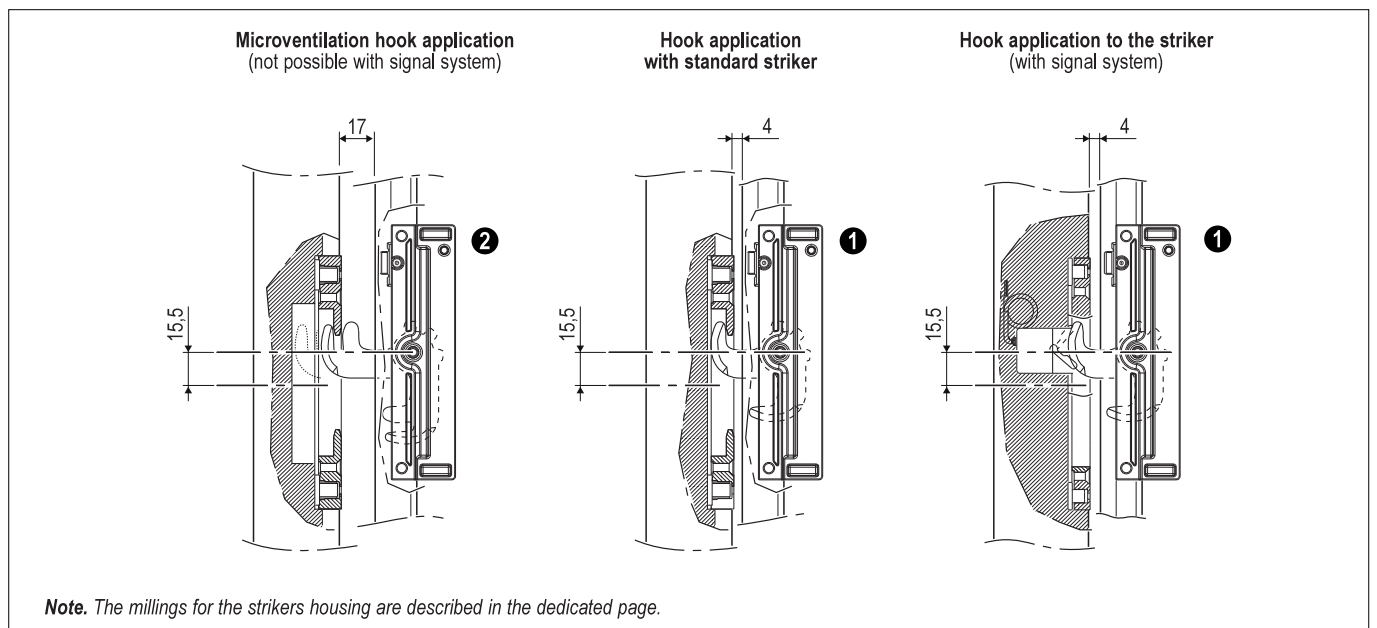
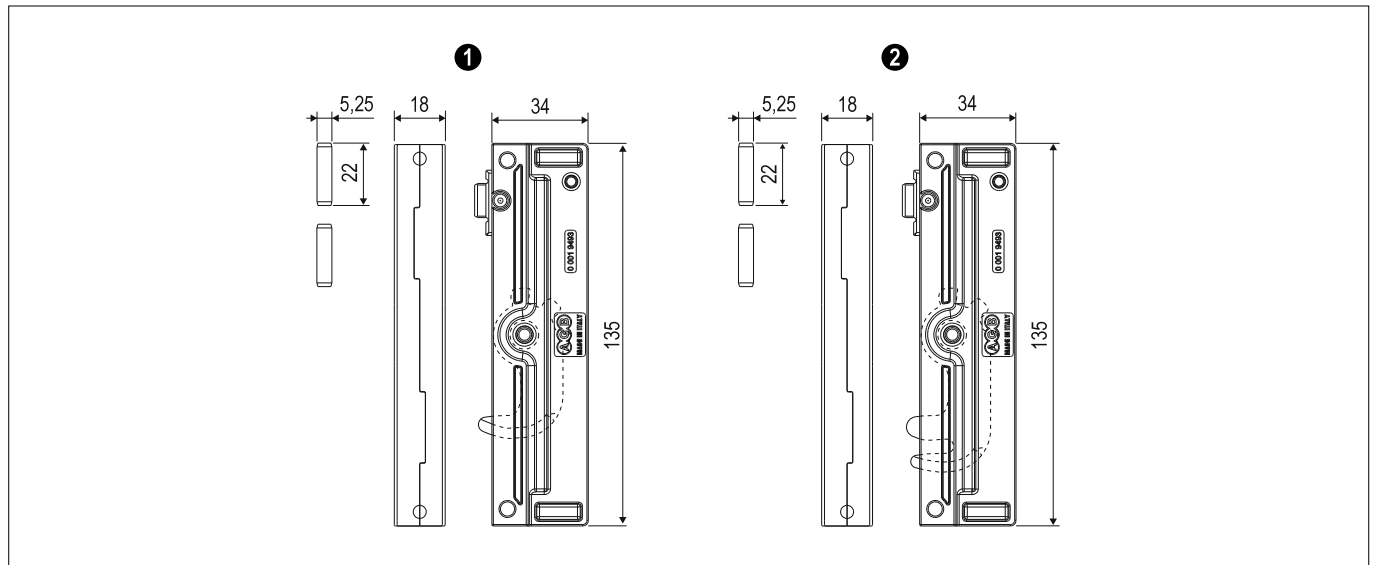
Ref.	Article	GR	Article code, in Silver	Article code, in Electrocoulour	SRH \diamond	Handle height	Lock height
1	Lock 440 Kg Backset 27,5	3	G03927.03.01	G03927.03.02	1775-2150	1000/1010	2046
		4	G03927.04.01	G03927.04.02	1925-2400	1000/1010	2296
		5	G03927.05.01	G03927.05.02	2325-2750	1000/1010	2646
	Lock 440 Kg Backset 37,5	3	G03937.03.01	G03937.03.02	1775-2150	1000/1010	2046
		4	G03937.04.01	G03937.04.02	1925-2400	1000/1010	2296
		5	G03937.05.01	G03937.05.02	2325-2750	1000/1010	2646

\diamond With upper guide 22x22 cod. G01002.XX.XX, the SRH application field will be reduced up to 10 mm.

Ref.	Article	Article code, in Silver	Article code, in Electrocoulour	Length
2	Extension with locking point	G04600.01.01	G04600.01.02	500
3	Covering profile	G04401.02.01	G04401.02.02	1000

Hooks

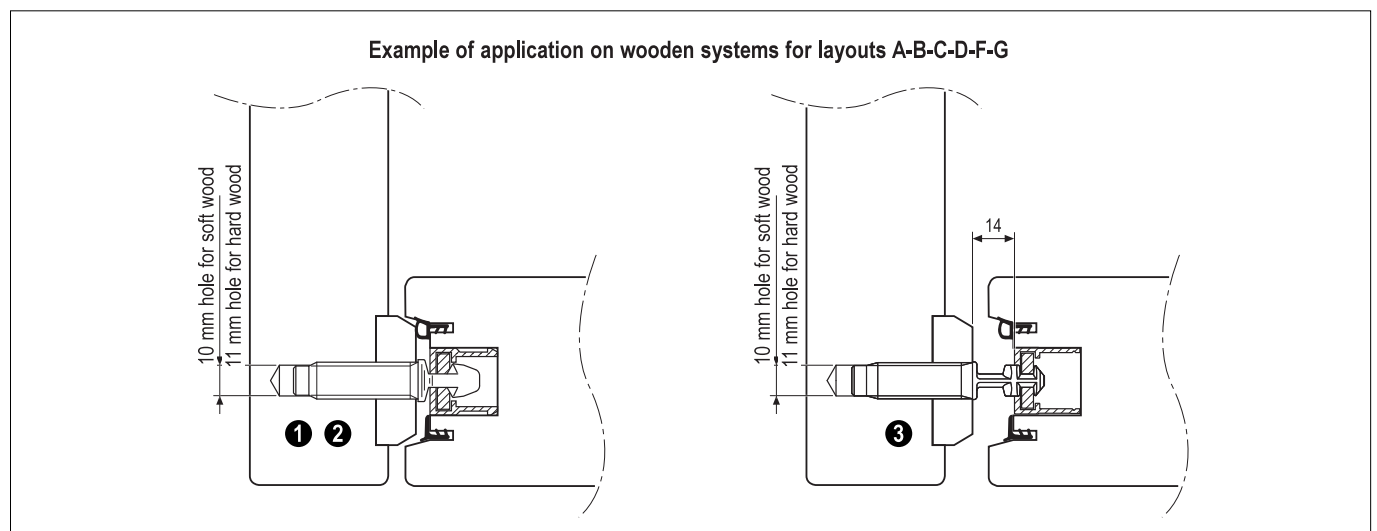
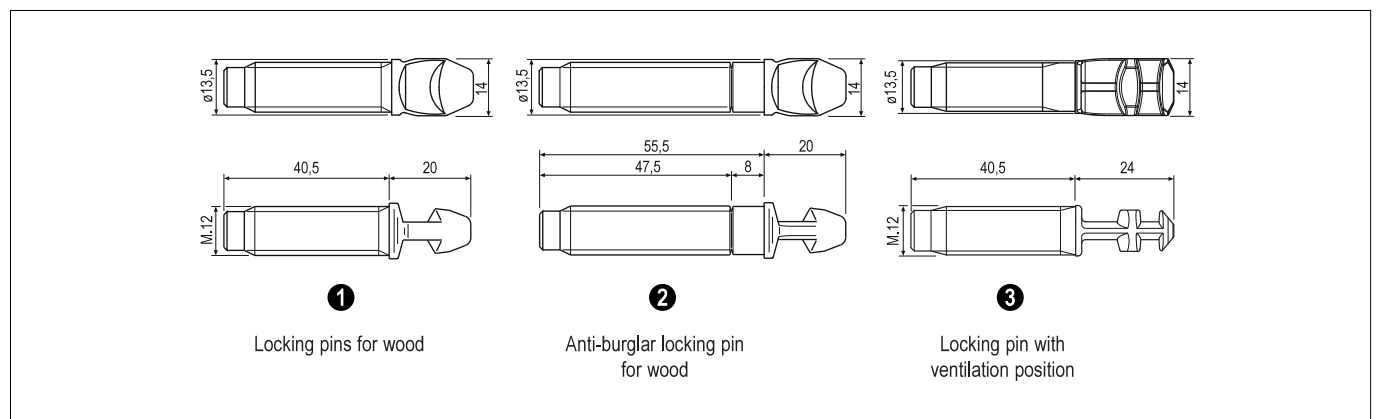
Article	Ref.	Description	Material	Use	Fastening
Additional hook	1	Element with steel hook that can be placed to the lock in the defined position.	Steel and zamak	To add a locking point to the lock	Using the elastic plug supplied, on suitable holes to the lock
Additional hook with microventilation position	2	Element with steel microventilation hook that can be placed to the lock in the defined position.		It ensures the microventilation allowing to pull close the sash to the frame and blocking it in that position	



Ref.	Description	Article
1	Additional hook	G05008.00.00
2	Additional hook with microventilation position	G05010.00.00

Locking pins

Article	Ref.	Description	Material	Use	Fastening
Locking pins	❶	Steel threaded pins.	Steel	Fastened to the jamb of the frame, they block the sliding sashes. They are available for wood or PVC and aluminium.	<p>ø10 mm pre-hole for soft wood. ø11 mm pre-hole for hard wood.</p> <p>Fasten the pin using the suitable hook G00746.00.06.</p> <p>Attention: don't use the hammer as it will compromise the pin tightness.</p> <p>Note. To determine the placement of locking pin, please use the jig art. G00746.00.05 (see the chapter "Jigs").</p>
Anti-burglar locking pins	❷	Steel threaded pins.			
Pin with ventilation position	❸	Threaded pin with double locking position. It allows to close the sash to the frame with a split for ventilation.			



Ref.	Description	Article
❶	Wood	G40728.00.03 *
❷	Anti-burglar for wood	G40728.00.33 *
❸	Ventilation for PVC / Aluminium-wood / Wood	G04902.01.00 *

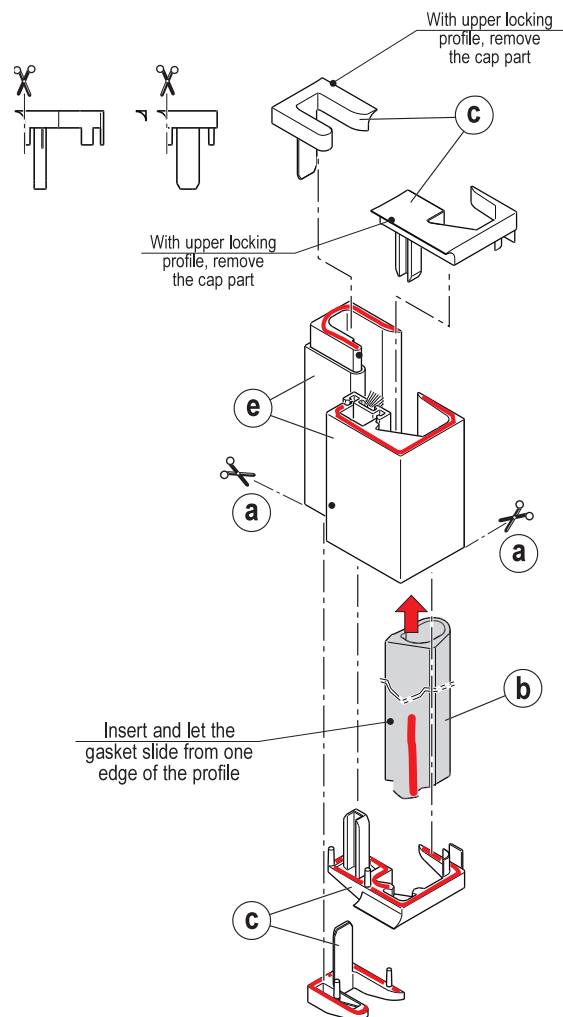
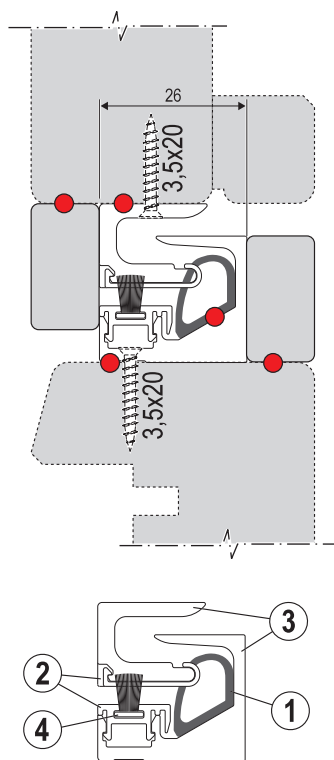
* **Note.** Not included in the standard kit (to be ordered separately).

Central point kit Uni-V mini

Article	Ref.	Description	Use	Fastening
Uni-V Mini profile	1	Standard central point designed for the application in all the AGB lift&slide systems.	The use of Uni-V Mini central point has many advantages: - it binds the sashes in closing position; - it helps the lift&slide production because it does not require gasket profiles for rebate - it helps the system tightness thanks to the increased gasket - it helps the sashes sliding thanks to great working tolerances which are able to compensate the natural deformations of wood.	a) cut the components (follow the indications of the technical manual according to the lift&slide type to be designed), b) insert the gasket, c) insert the terminal caps, d) fasten the profiles to sashes using screws $\varnothing 3,5 \times 35$, e) insert the covering profiles of screws and the brush, f) silicone and cut following the indications of the dedicated technical manual which concerns the lift&slide type to be designed.
Caps kit	2			

Materials

- 1) EPDM gasket
- 2) PVC screws covering profiles
- 3) Extruded aluminium profiles
- 4) Polypropylene brush

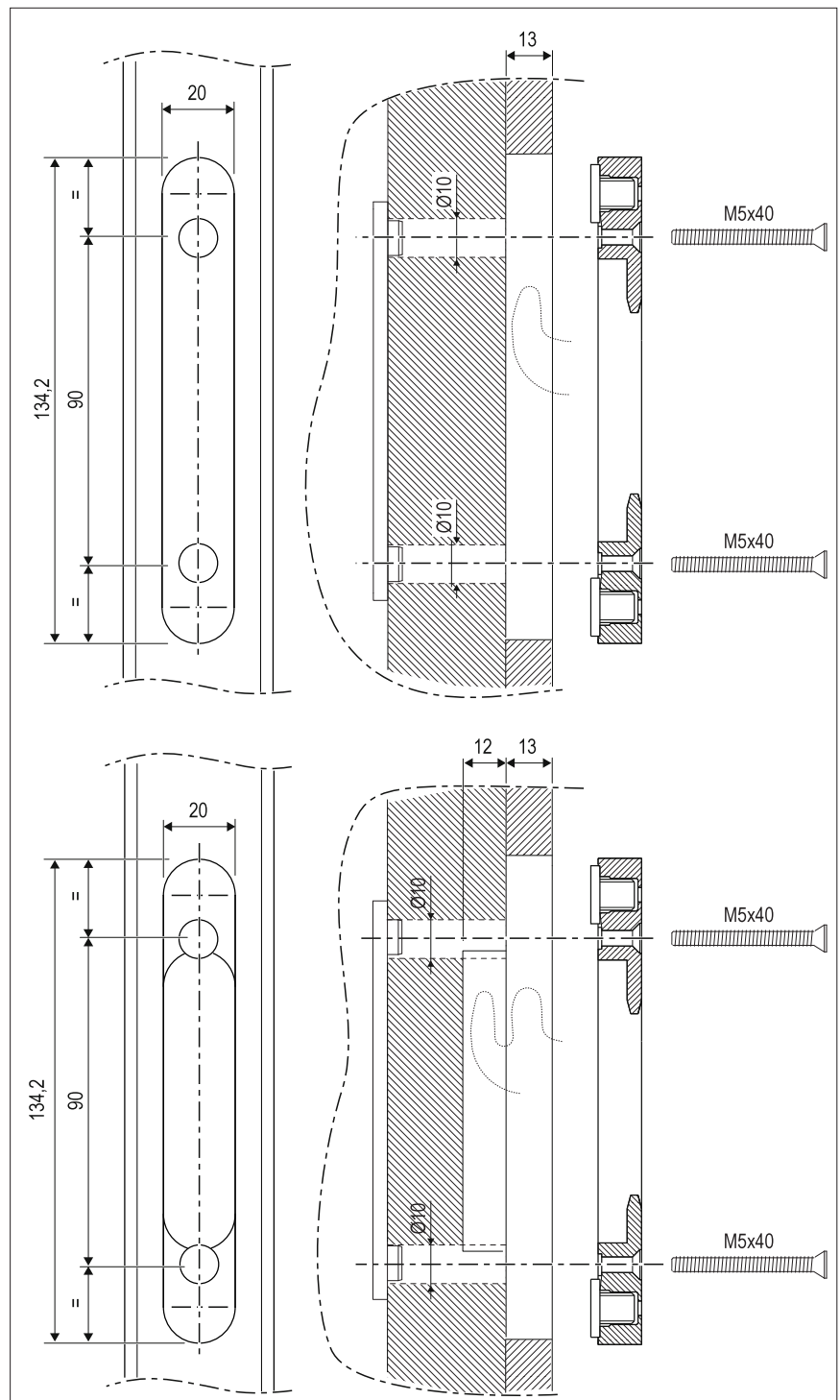
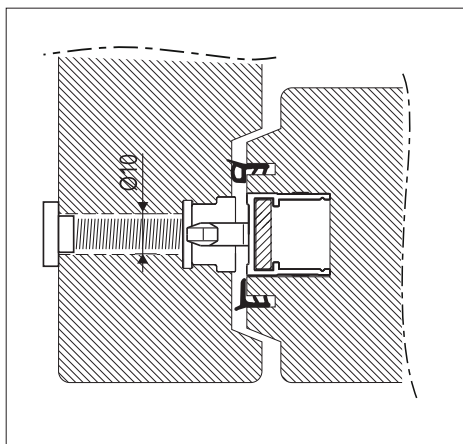
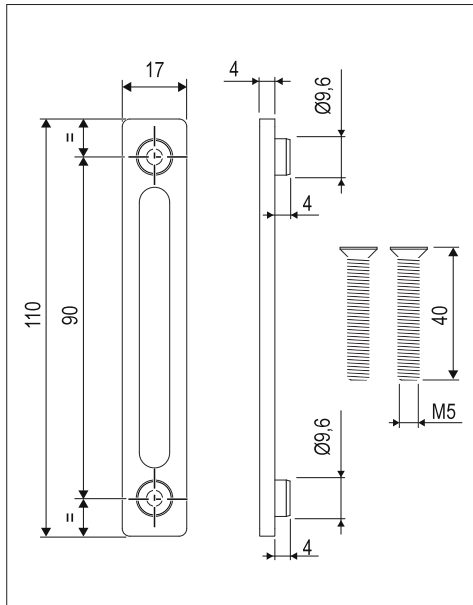


Ref.	Article	Article code	Length
1	Uni-V Mini point profile	G02211.25.01	2500 mm
		G02211.25.93	2500 mm
		G02211.31.01	3100 mm
		G02211.31.93	3100 mm
		G02211.40.01	4000 mm
		G02211.40.93	4000 mm

Ref.	Article	Article code	
2	Caps kit	G01623.DX.93	Right
		G01623.SX.93	Left

Counterplate for fastening of hook striker

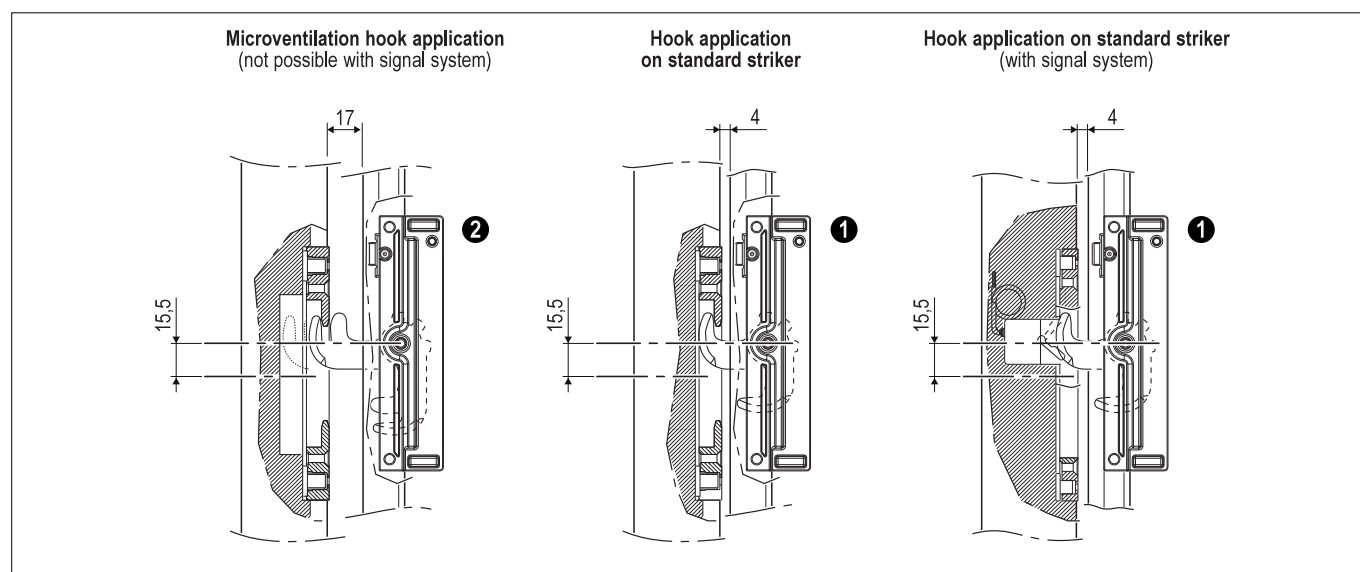
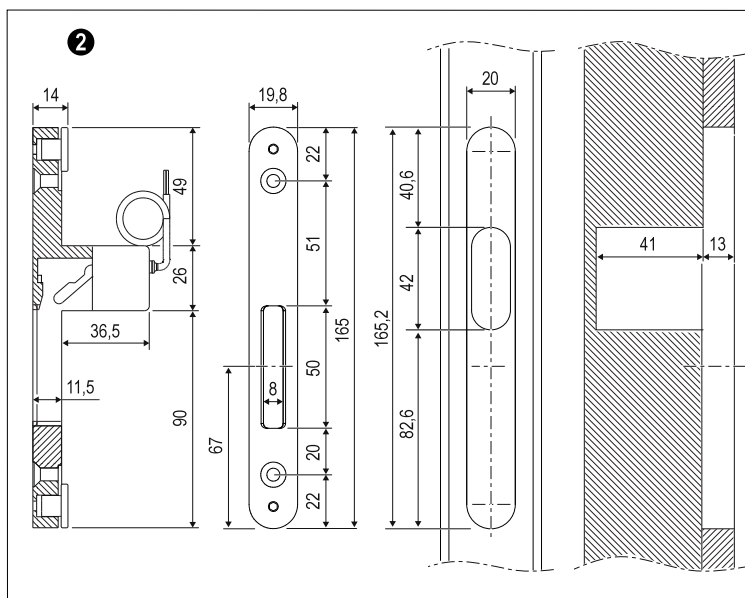
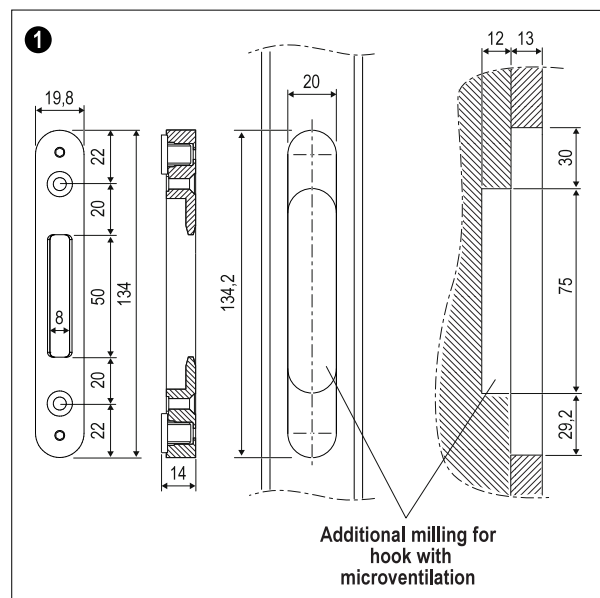
Article	Description	Use	Fastening
Counterplate for fastening of hook.	Plate with threaded holes for hook strikers fastening on frame strikers, Imago+.	Apply from outside the frame and fasten to the hook striker by two through holes with M5 screws.	By M5 screws included in kit.



Article	Article code
Counterplate for fastening of hook	G06204.01.01

Strikers

Article	Ref.	Description	Material	Use	Fastening
Striker for hook	❶	Adjustable locking point	Zamak	-	Screws 4,5x45 mm
Striker for hook with signal system	❷	Adjustable locking point with control device of hook position	Zamak	Connected to a control device, it allows to find the hook position. <i>Note. It can't be applied to coaxial sashes profile.</i> <i>Note. It isn't compatible with microventilation hook.</i>	Screws 4,5x45 mm



Ref.	Description	Article	
❶	Striker for hook	G06201.00.01	G06201.00.02
❷	Striker for hook with signal system	G06203.00.01	G06203.00.02



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