



Alban Giacomo SpA

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =

TECHNICAL MANUAL

LIFT & SLIDE

Climatech Imago 68_{mm}

- 68x74 mm sections system.
- Gasket, external and internal, vertical - lower: bulb-type with vulcanized corner in EPDM.
- Internal side EPDM gasket for covering milling.
- Embedded top guide and pultruded fiberglass threshold
- 28 mm distance between the sashes.
- Uni-V central point with aluminium anti-thrust beak and wooden covering parts.
- Layout E realised with symmetric central point with aluminium pin holder profile and caps to close the compartment.
- 27,5 mm backset lock.



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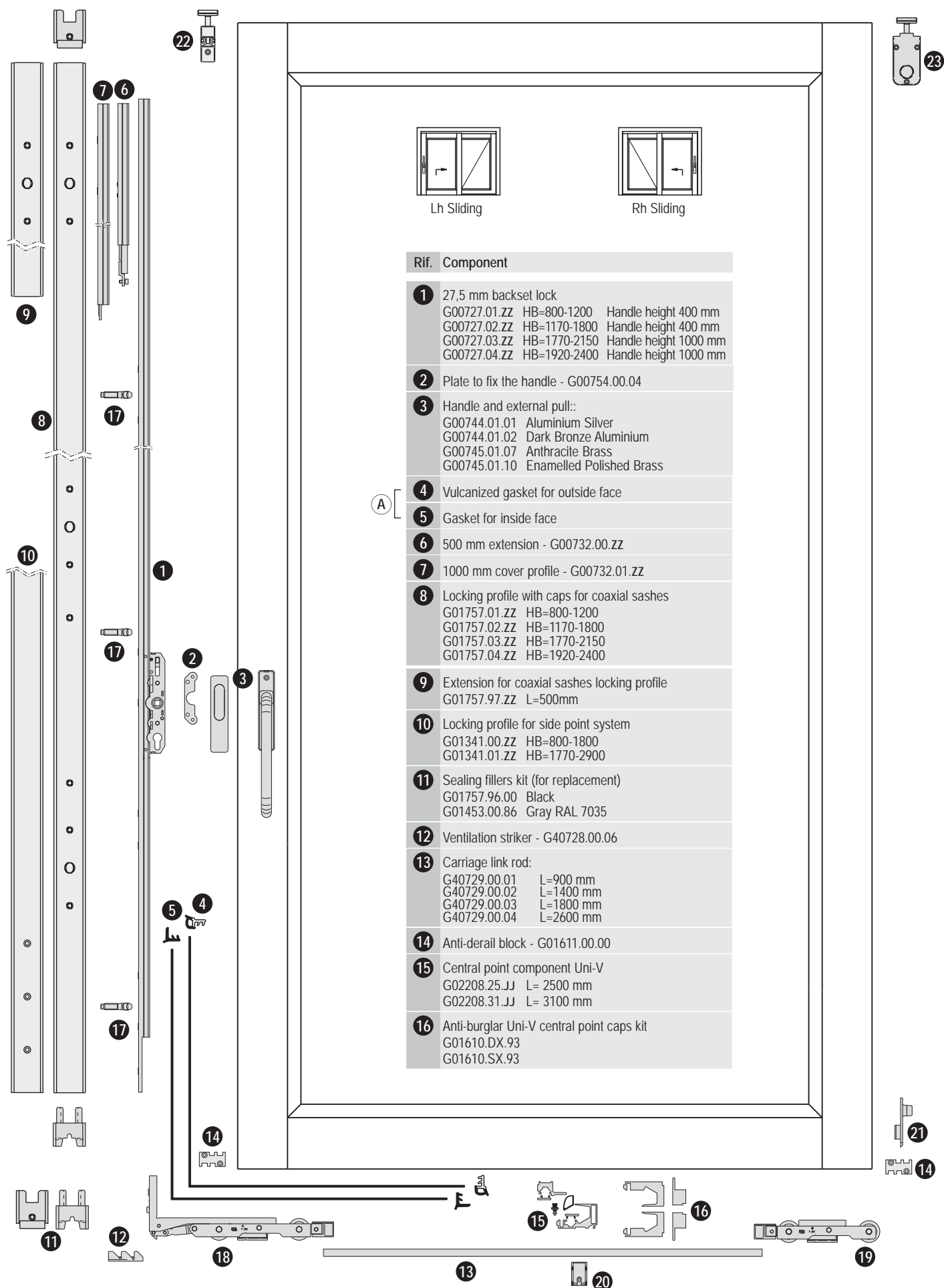
Notice of any new developments regarding accessories, assembly and work on casements shall be provided on an ongoing basis with periodic updates of this manual. We therefore recommend particular attention to publication of new versions via the www.agb.it site



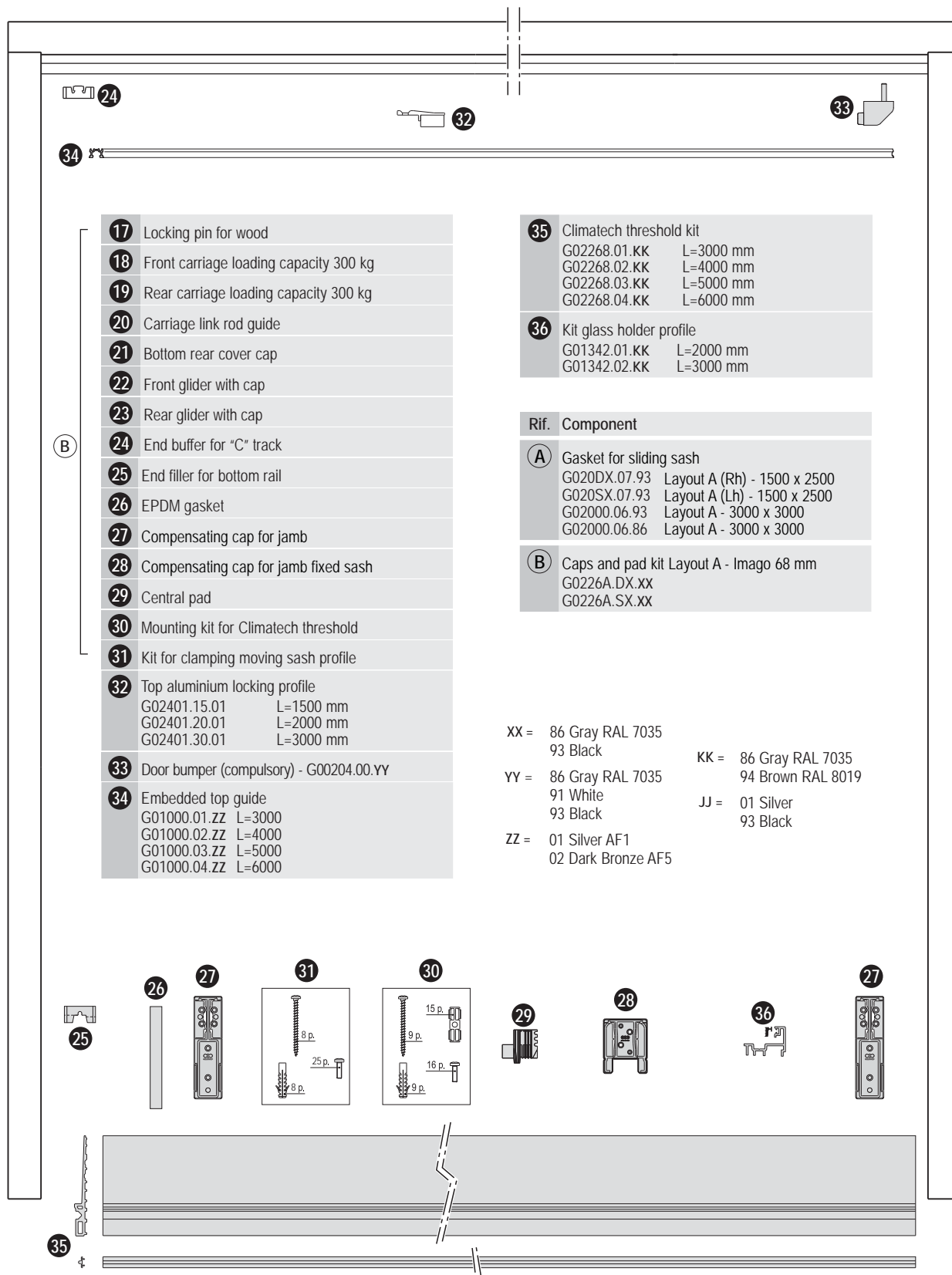
Window and door manufacturers benefitting from the AGB cascading contract are required to install glass with the following minimum requirements:

Minimum thickness 44.1/15/33.1 Shatterproof

Hardware layout - sash part



Hardware layout- frame part



For assembling, the following screws are necessary:

3,5x20mm	3,5x30mm	3,5x40mm	3,5x50mm	4,5x35mm	4,5x60mm	6x120mm
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Key legend and abbreviations

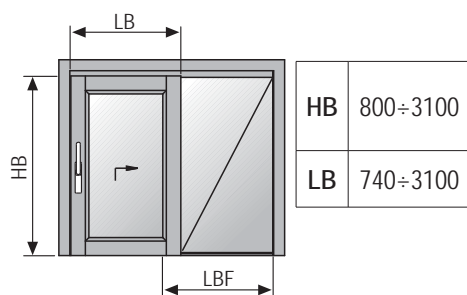
HB =	Door height
LB =	Rebated width
MET =	Outside frame length
SMT =	Door frame jamb thickness
SMA =	Sash jamb thickness
LBF =	Fixed rebated width
HET =	Outside frame height
H =	Component height
L =	Component length

● = Neutral silicone bead with Primer

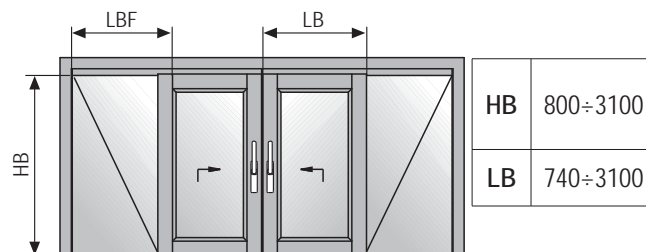
Note: all measurements are in millimetres

Dimensional limits

Layout A



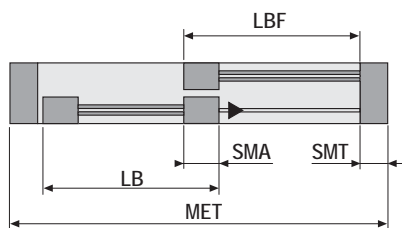
Layout E



Sliding sashes width calculation

Layout A

1 fixed sash glass and 1 sliding door



With symmetric sashes

$$LB = [MET - (2 \times SMT)] : 2 + (SMA : 2) - 5$$

E.g: $LB = [4000 - (2 \times 45)] : 2 + (74 : 2) - 5$ $LB = 1987 \text{ mm}$

With asymmetric sashes

$$LB = MET - LBF - (2 \times SMT) - 5 + 74$$

E.g: $LB = 4000 - 2500 - (2 \times 45) - 5 + 74$ $LB = 1479 \text{ mm}$

$$LBF = MET - LB - (2 \times SMT) - 5 + 74$$

E.g: $LBF = 4000 - 1000 - (2 \times 45) - 5 + 74$ $LBF = 2979 \text{ mm}$

Layout E

2 fixed sashes glass and 2 sliding doors



With symmetric sashes

$$LB = [MET - (2 \times SMT + 5)] : 4 + SMA : 2$$

E.g: $LB = [6000 - (2 \times 45 + 5)] : 4 + 74 : 2$ $LB = 1513 \text{ mm}$

With asymmetric sashes

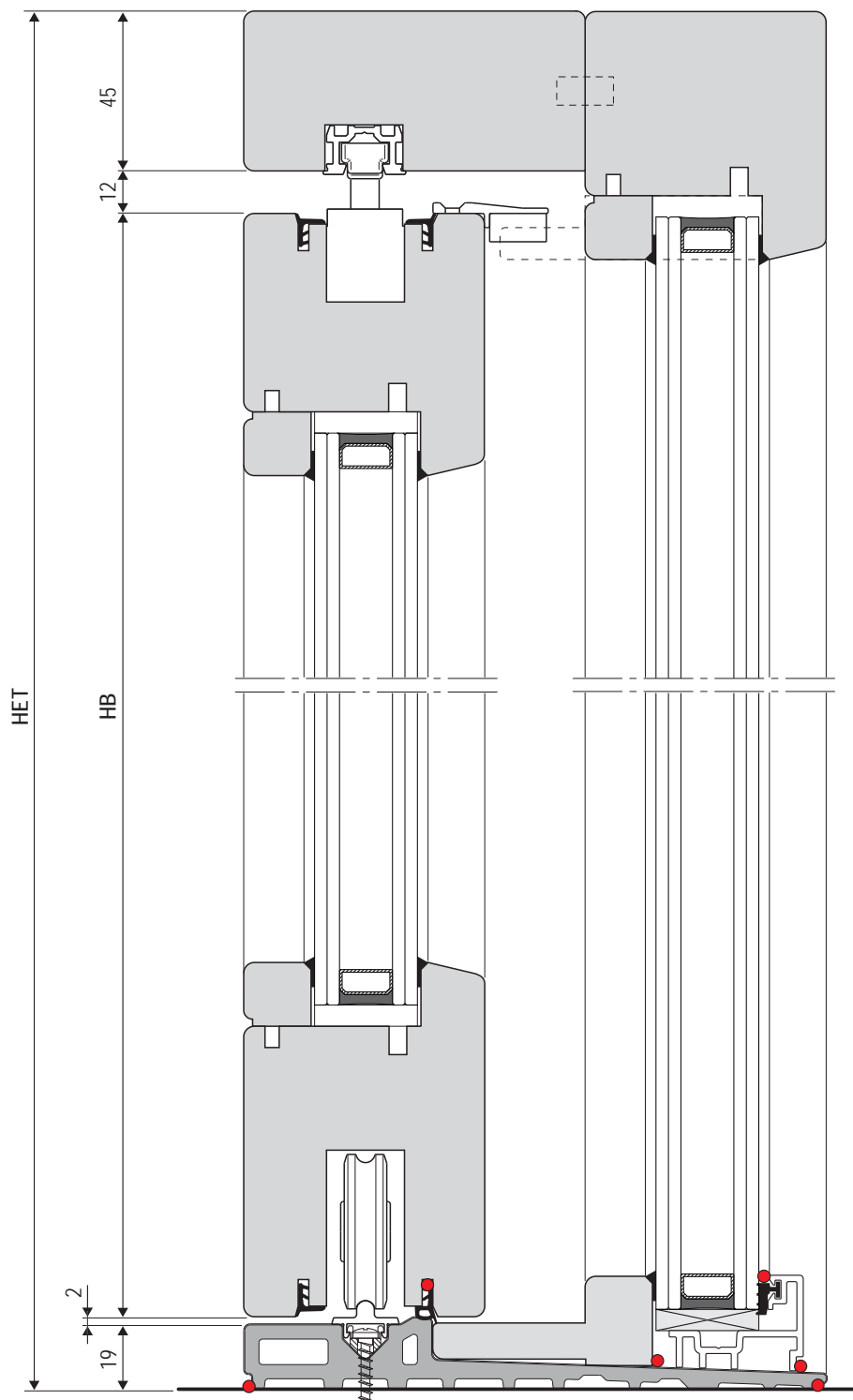
$$LB = [MET - (2 \times SMT + 5) - (2 \times LBF)] : 2 + SMA$$

E.g: $LB = [6000 - (2 \times 45 + 5) - (2 \times 1500)] : 2 + 74$ $LB = 1526 \text{ mm}$

$$LBF = [MET - (2 \times SMT + 5) - (2 \times LB)] : 2 + SMA$$

E.g: $LBF = [6000 - (2 \times 45 + 5) - (2 \times 1700)] : 2 + 74$ $LBF = 1326 \text{ mm}$

Sliding sashes height calculation

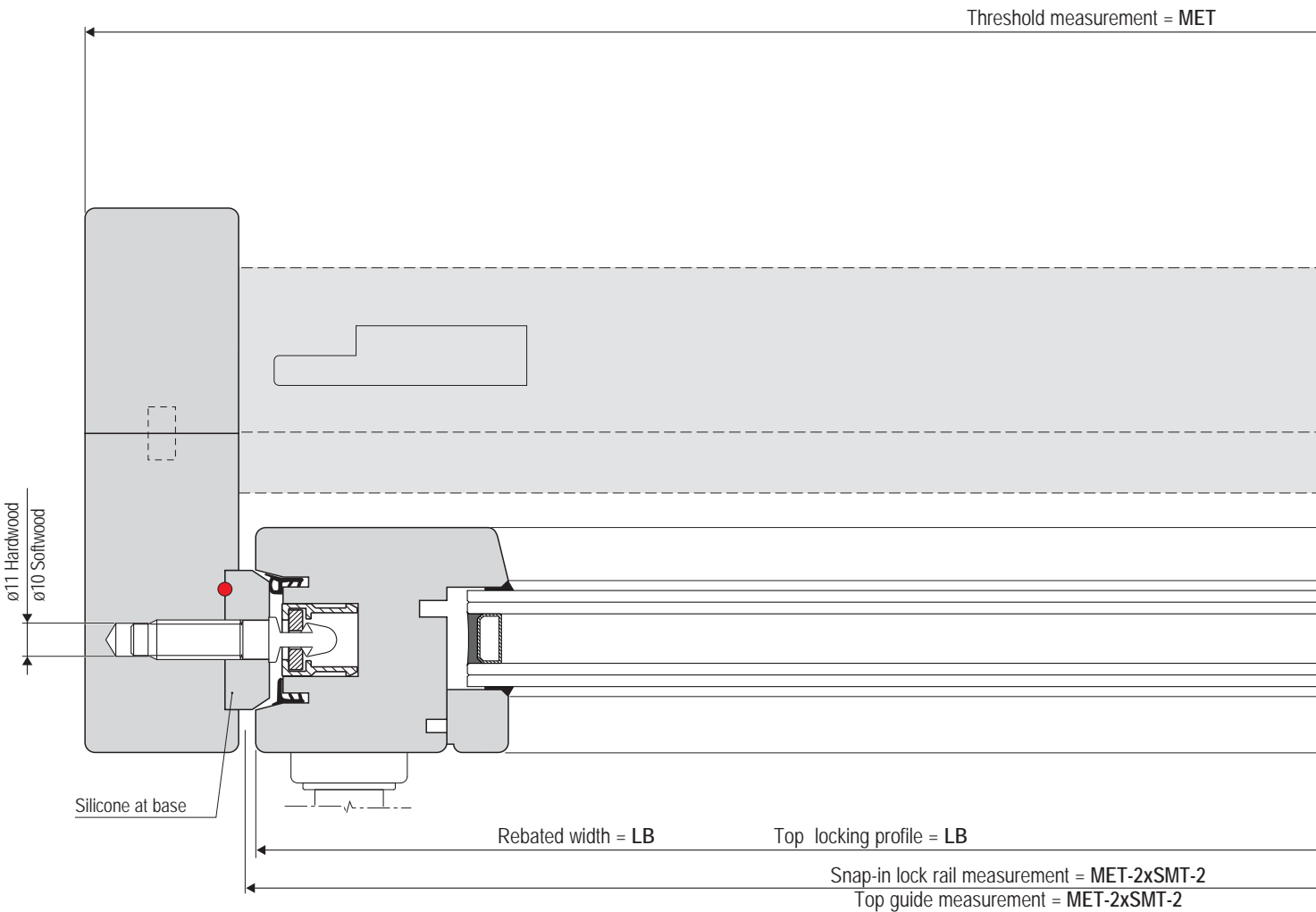


HET = Outside frame height
HB = Door height

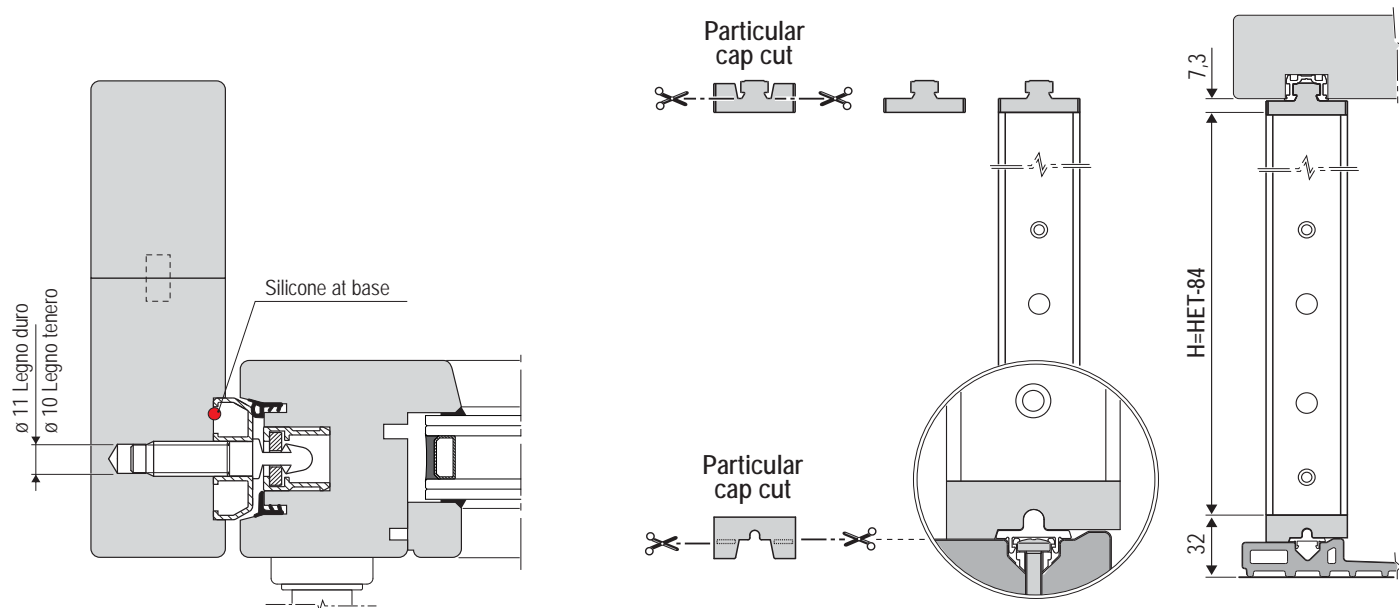
Tolerance HB $\pm 0,5$

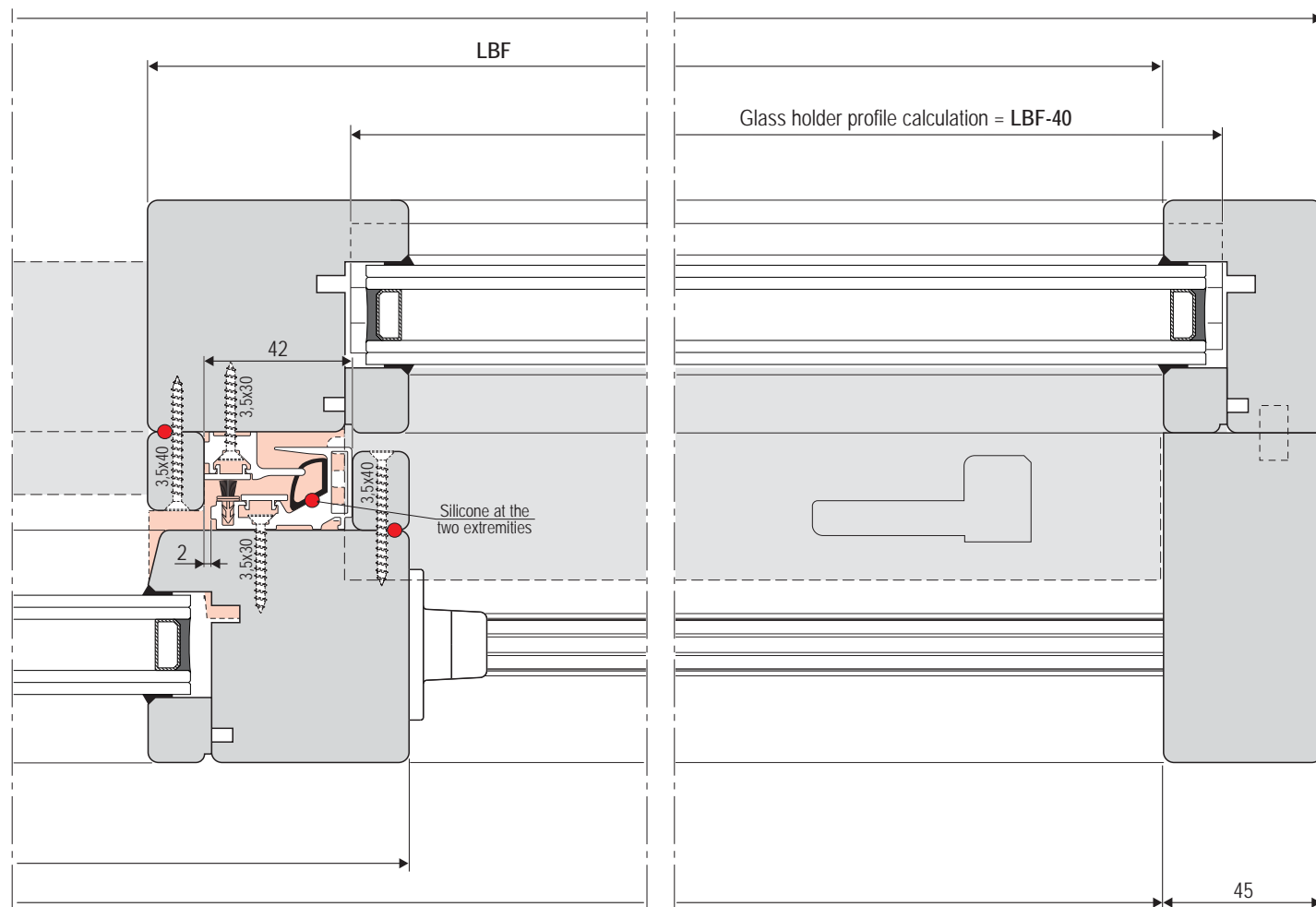
$$HB = HET - 78$$

Horizontal section- Layout A - lenght calculation

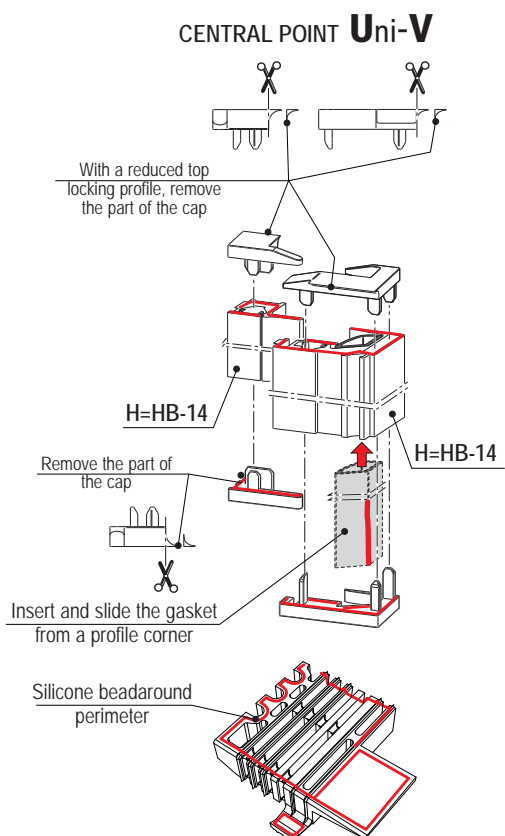


ALTERNATIVE SOLUTION WITH
LOCKING PROFILE ALUMINIUM
PIN HOLDER

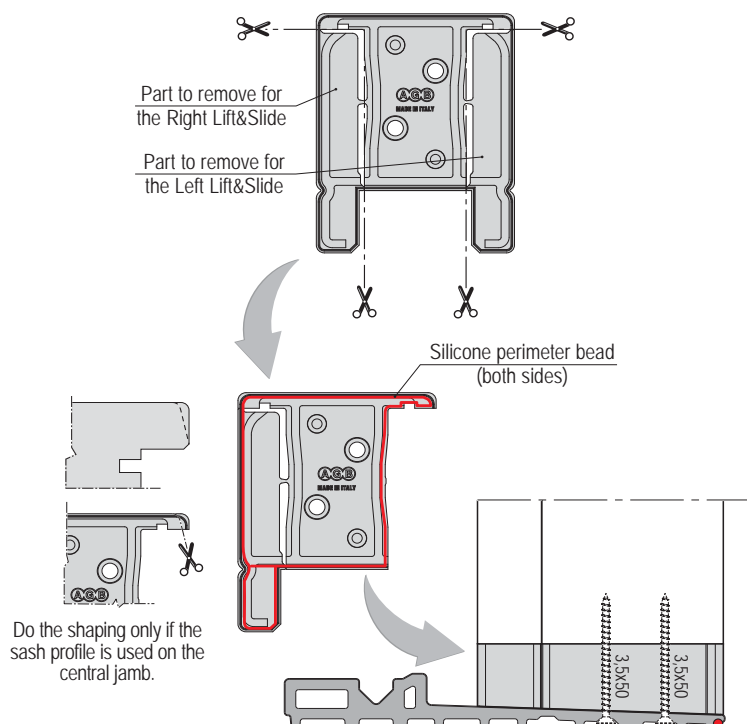




PARTICULAR COMPOSITION FOR
CENTRAL POINT



APPLICATION FOR
COMPENSATING PAD

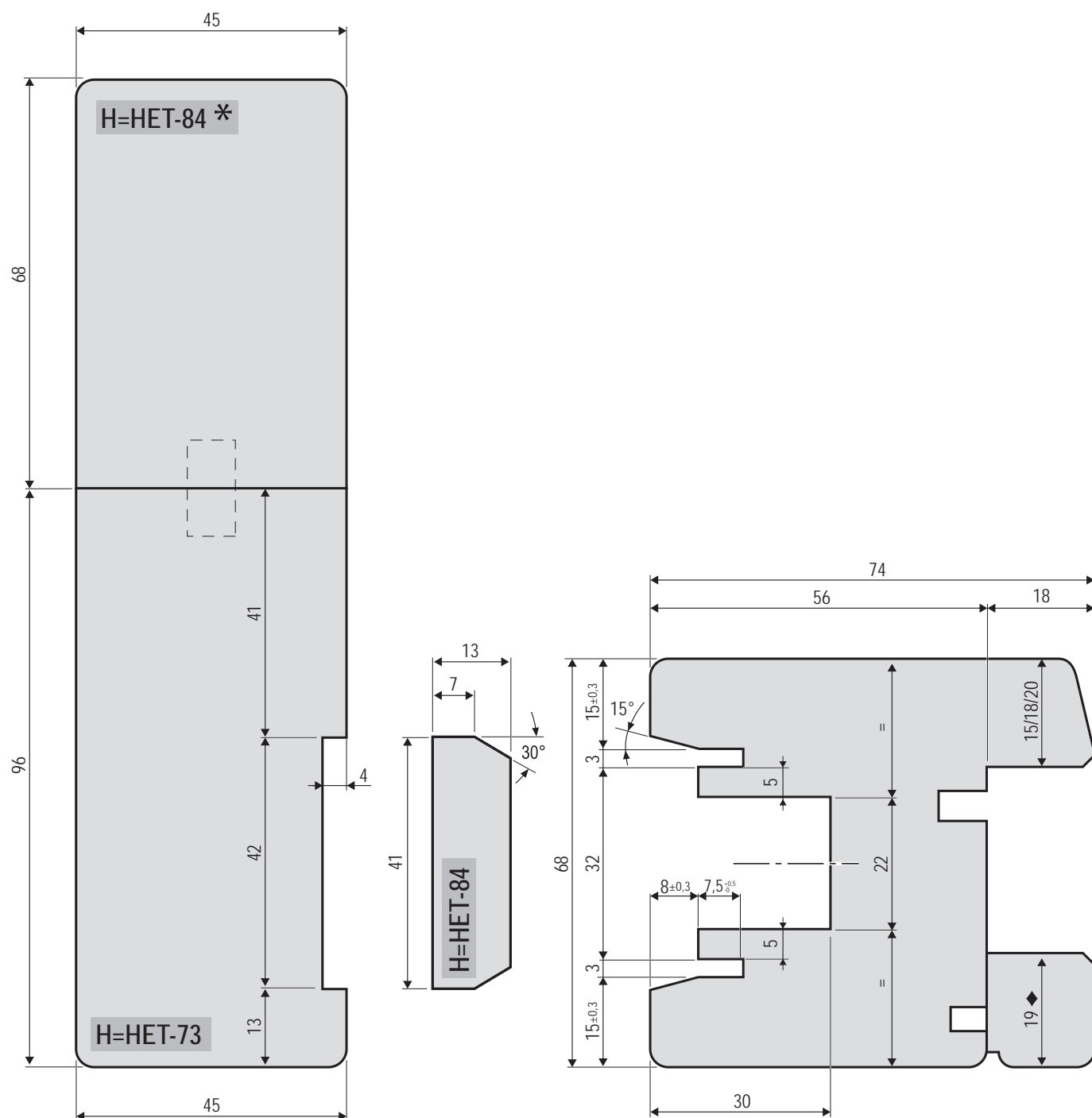


Wood detailing: sliding sash horizontal section - Layout A

Scale 1:1



The glazing bead dimensions and the lower termic profile suppose the use of a 31 mm glass shim.



Wood detailing: central point and fixed sash horizontal section- Layout A

Scale 1:1



The glazing bead dimensions and the lower termic profile suppose the use of a 31 mm glass shim.

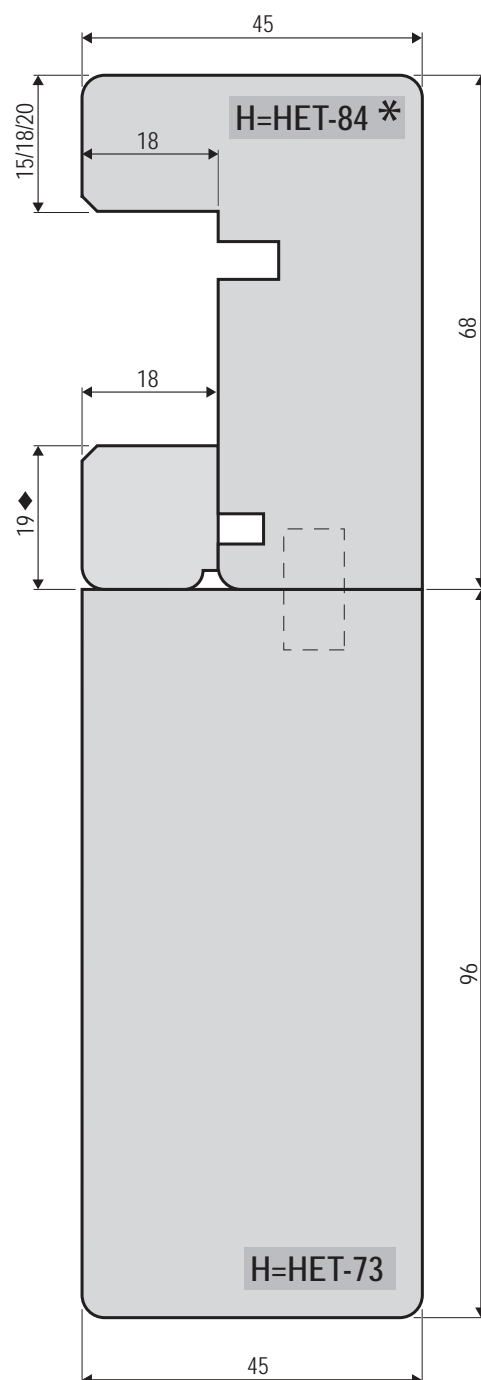
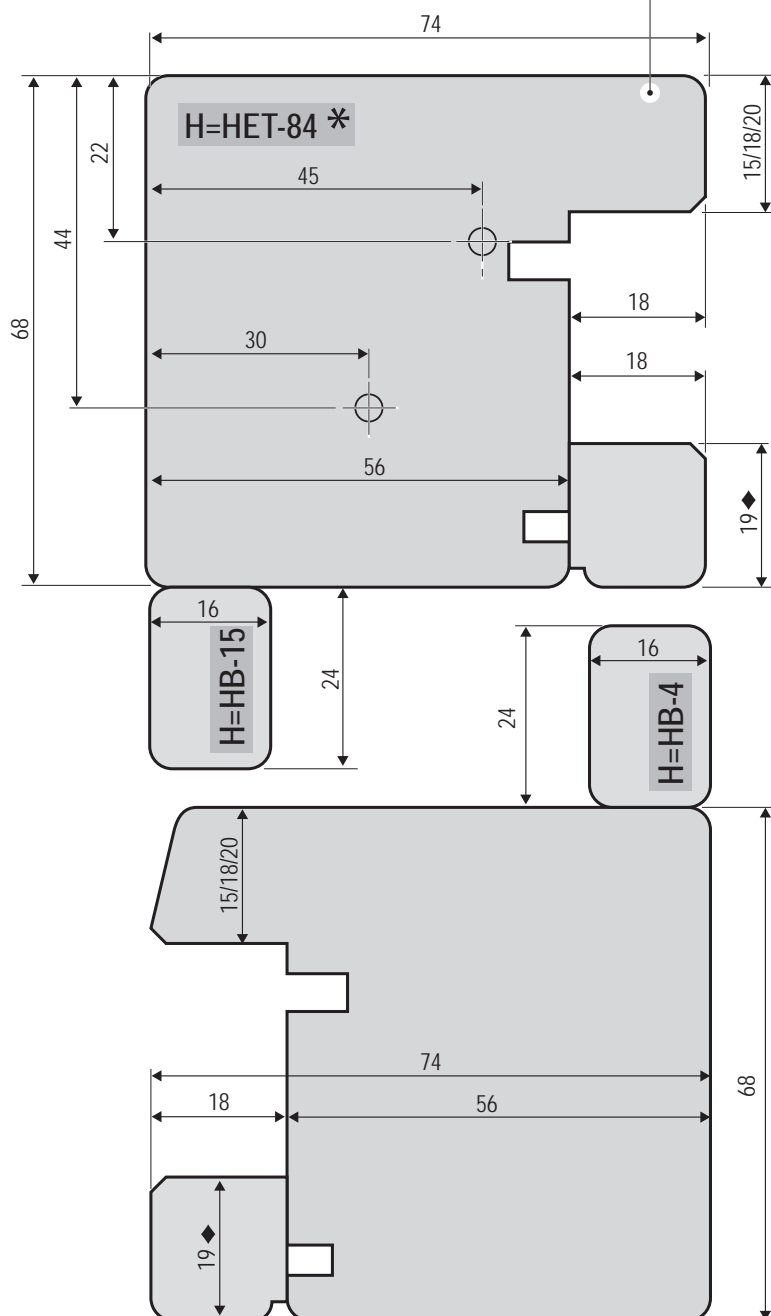


Pre-drill holes for the mounting screws of the compensating pad

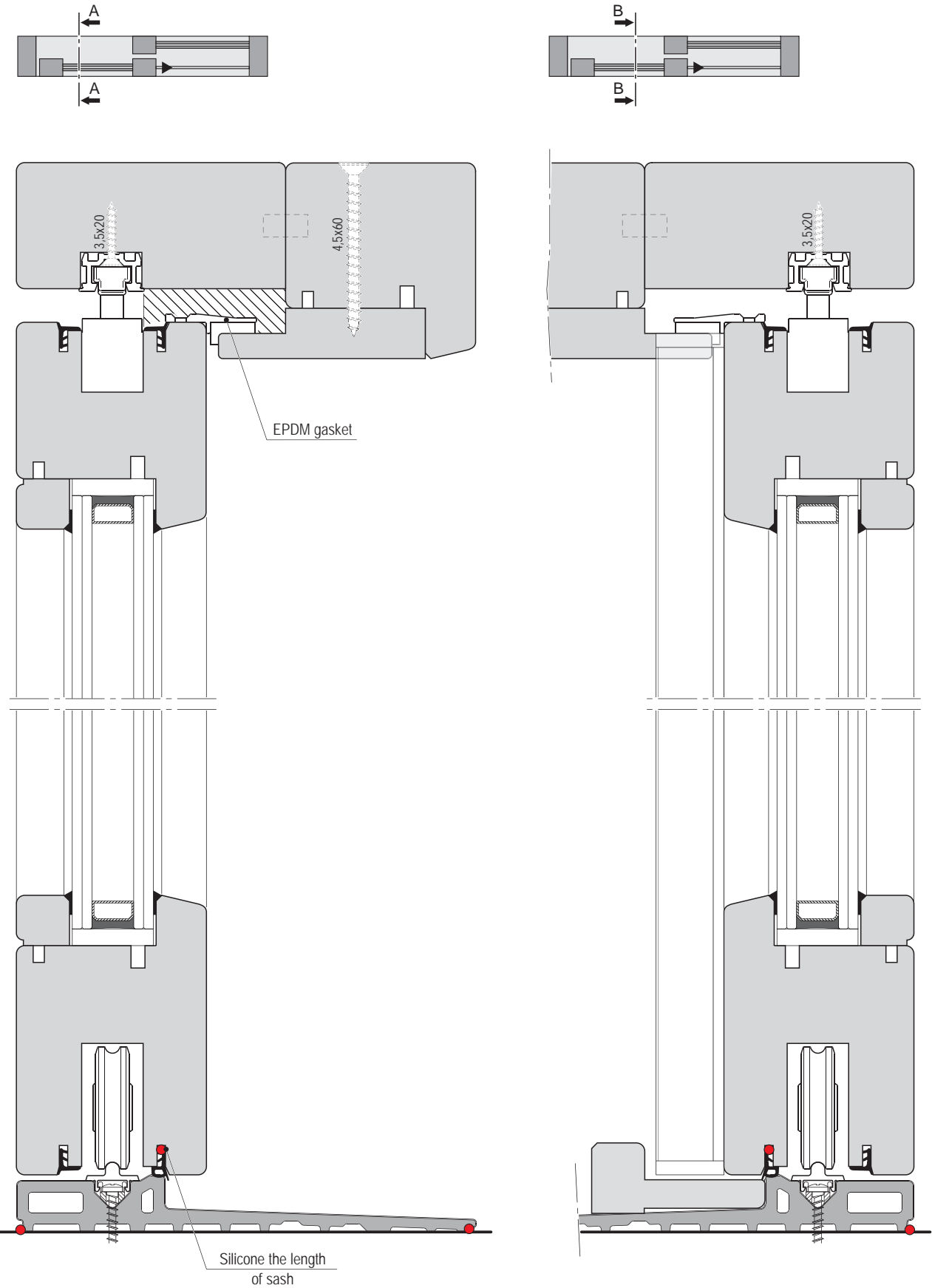
It's possible to realize the central jamb using the sash profile (in this case the compensating pad must be adapted depending on the profile)

* Assign the top extremity to the frame transom

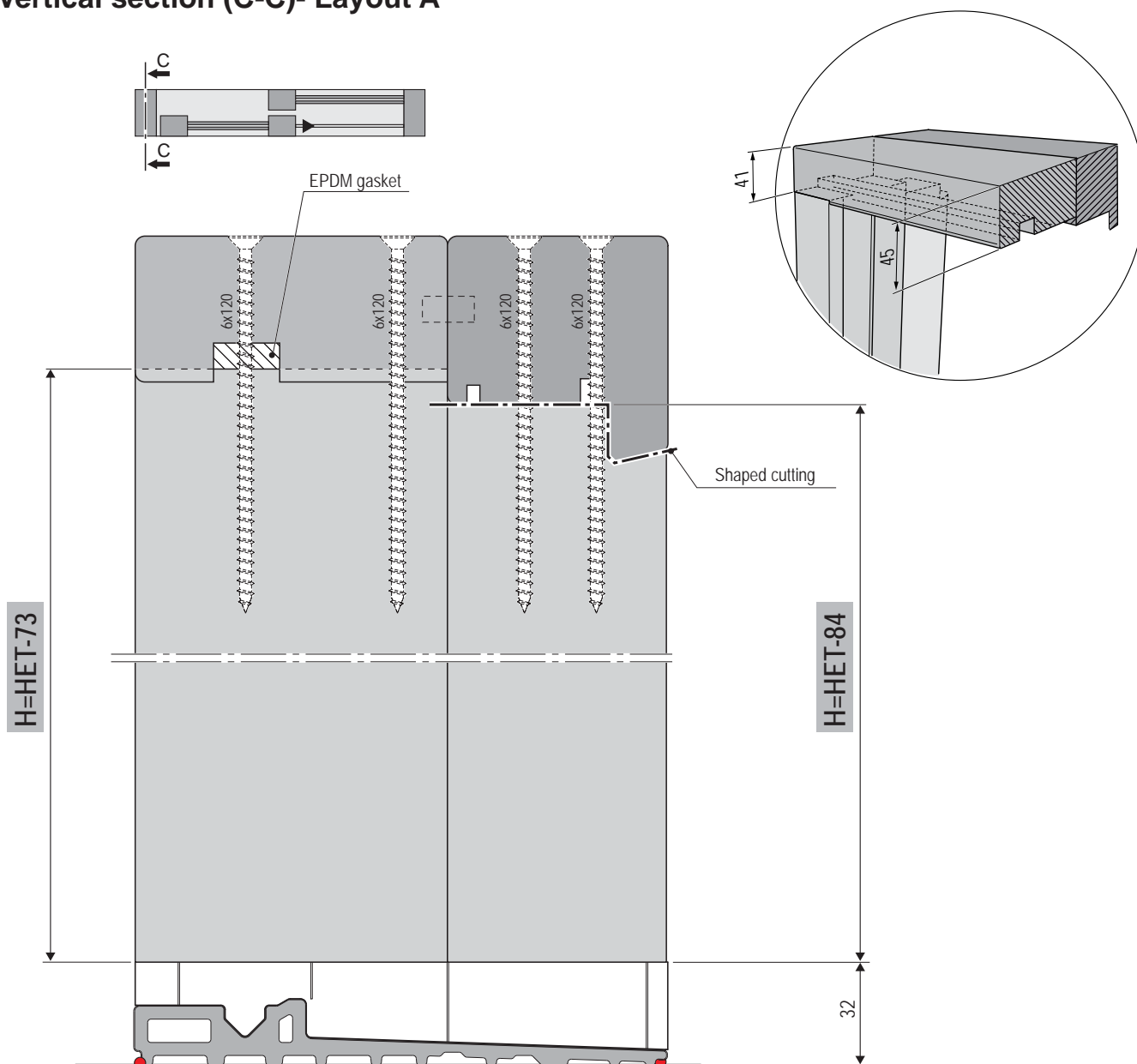
◆ Value calculated depending on a 18 mm external glazing bead shim



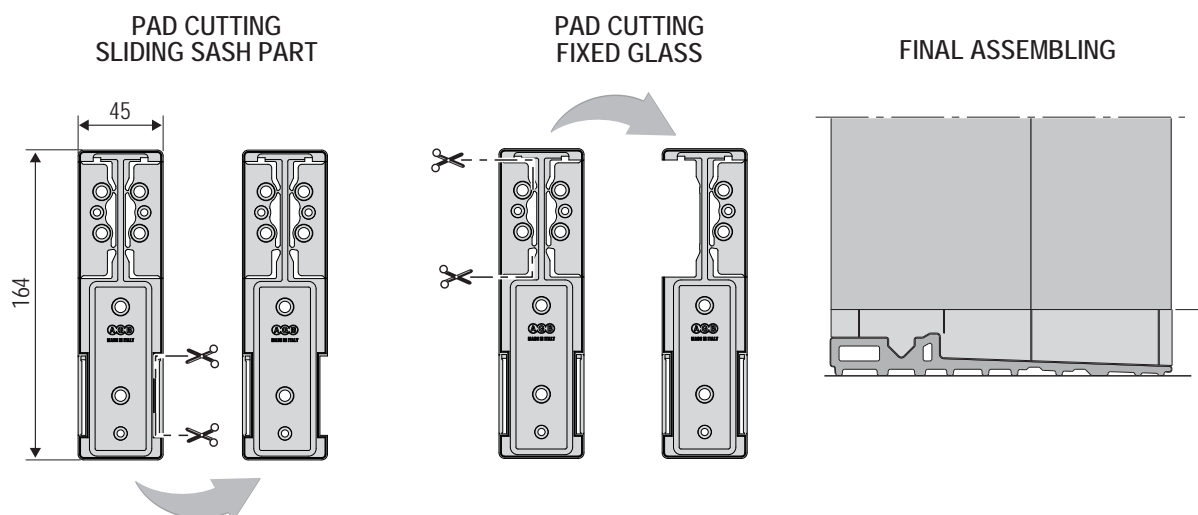
Vertical section (A-A) (B-B) - Layout A



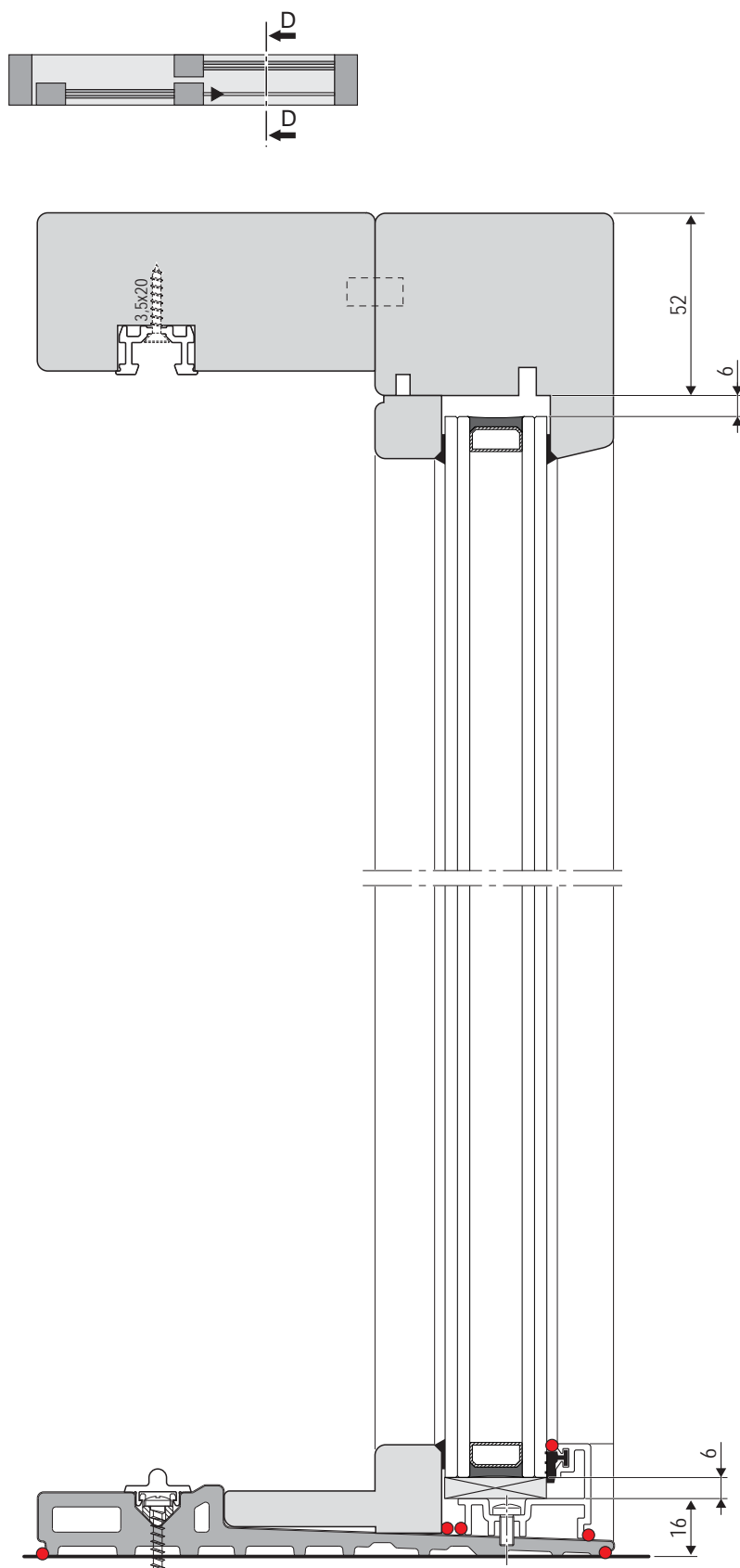
Vertical section (C-C)- Layout A



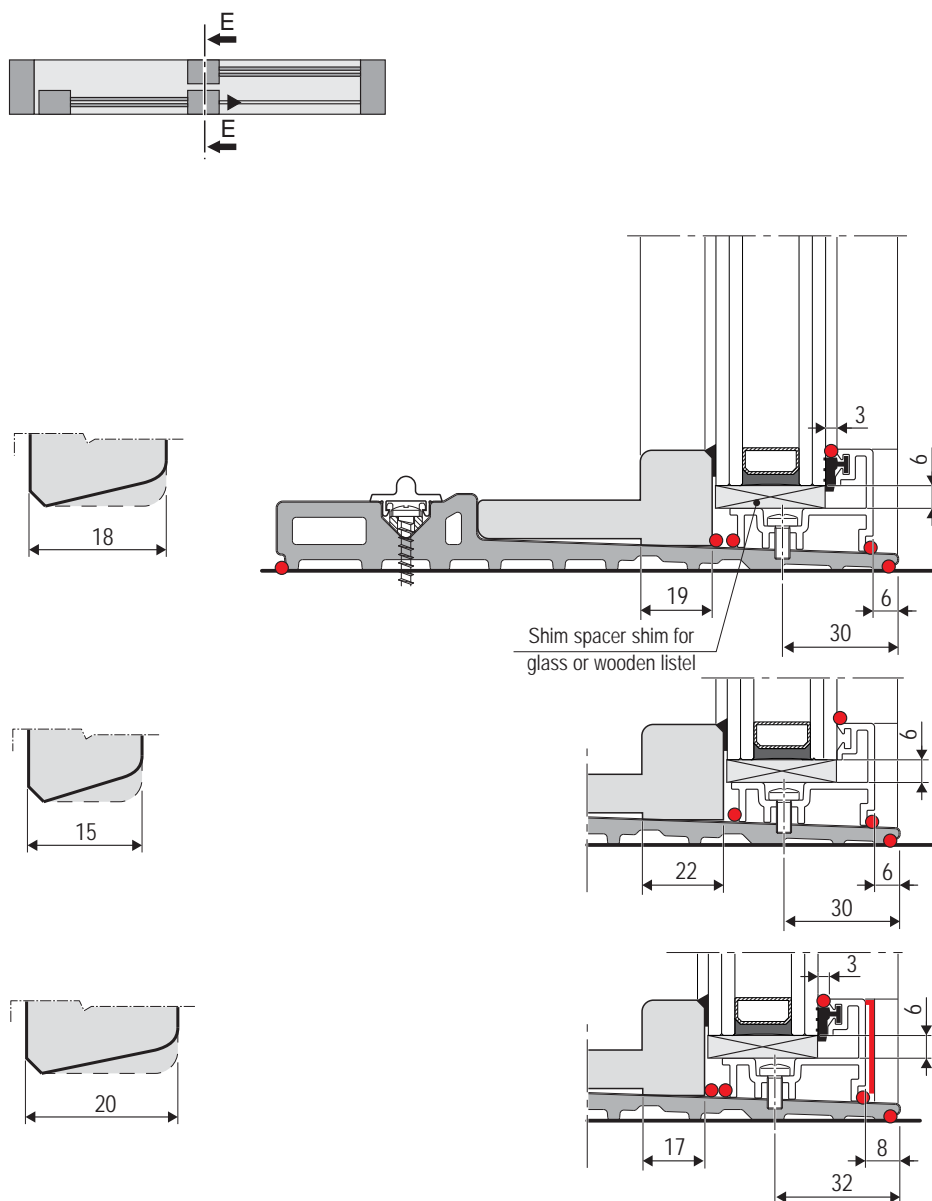
APPLICATION FOR FRAME
COMPENSATING PAD
(example of the left Lift&Slide)



Vertical section (D-D)- Layout A



Vertical section bottom point (E-E) - Layout A

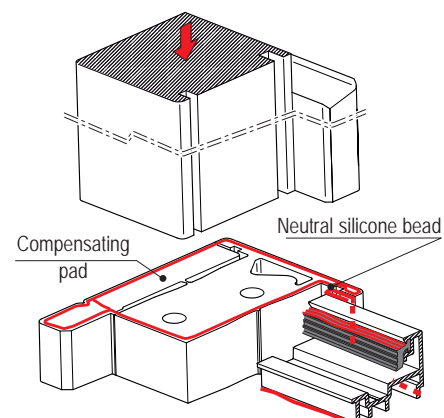
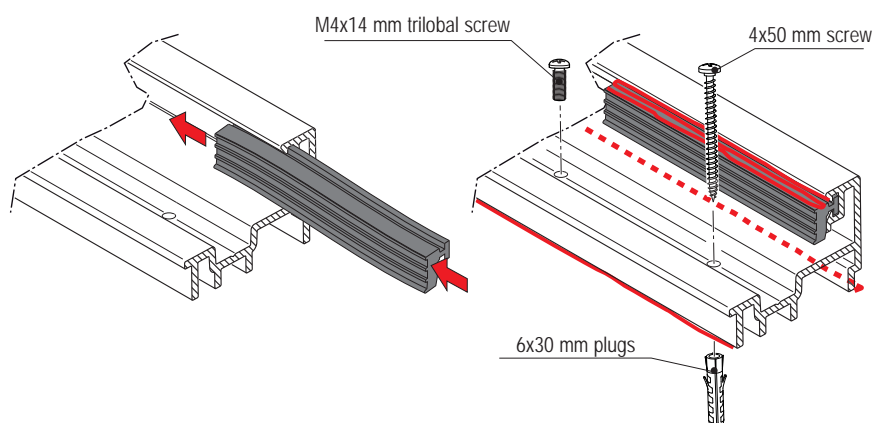


ASSEMBLING INSTRUCTIONS FOR GLASS HOLDER PROFILE

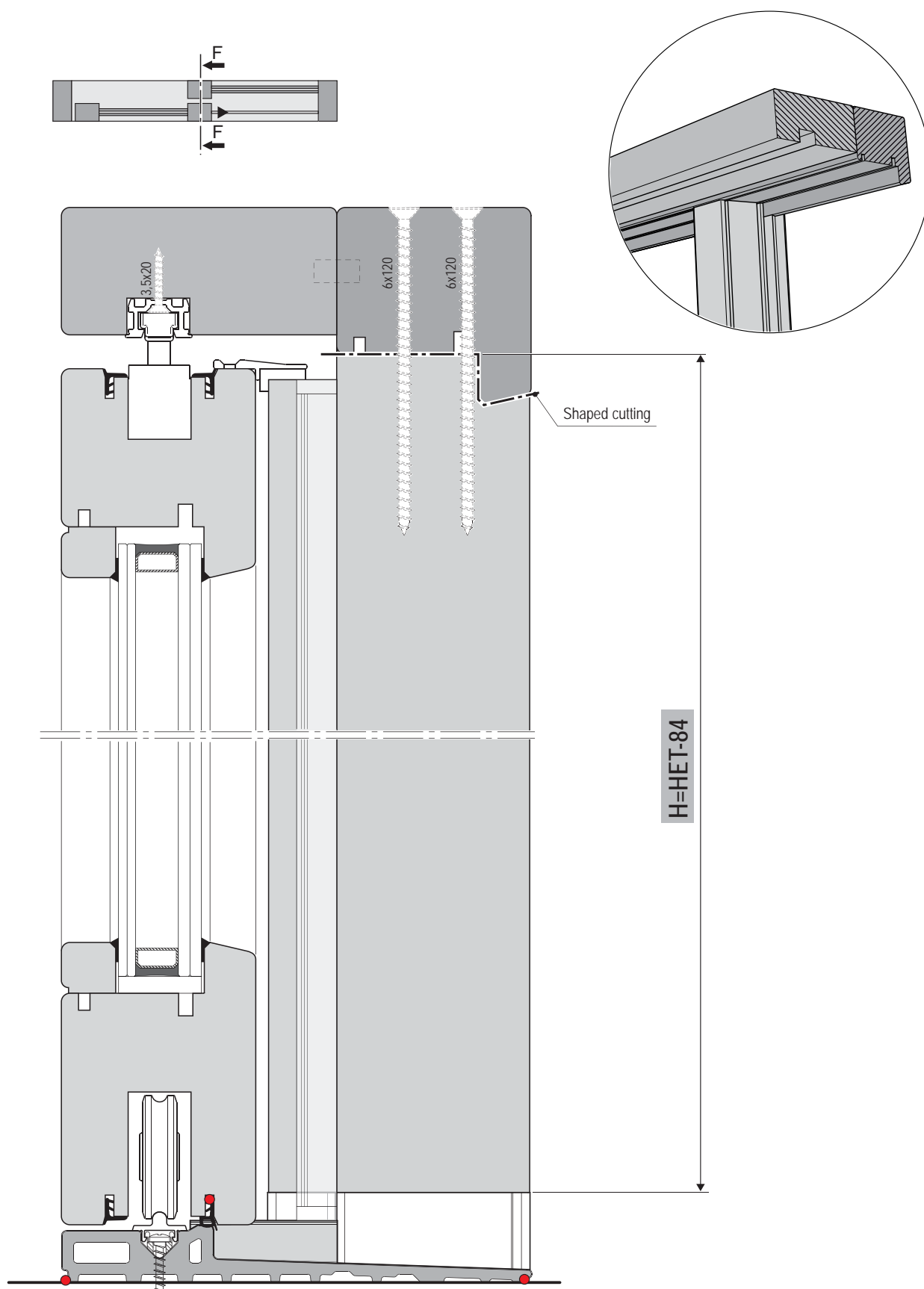
- Insert the gasket from a corner;

- fix the glass holder profile alternating a trilobal screw and a plugs screw;
- do a silicone bead for all the profile length;

- do a silicone bead on the specific part of the compensating pad.



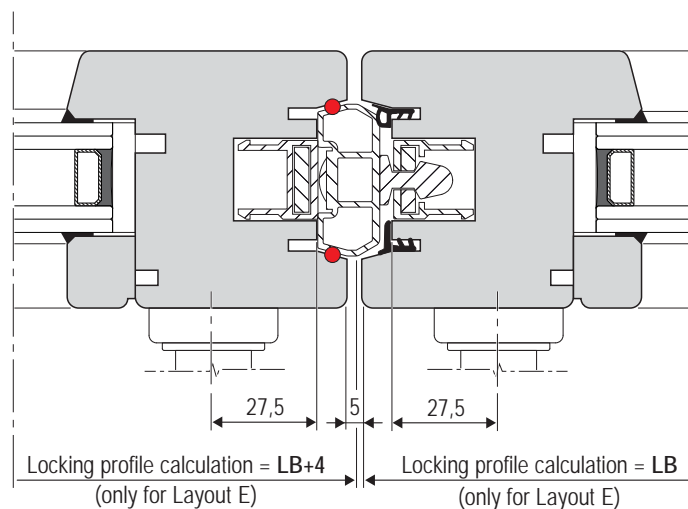
Vertical section (F-F)- Layout A



Central point horizontal section with coaxial sashes- Layout E



Layout E - 2 fixed sashes glass and 2 sliding doors

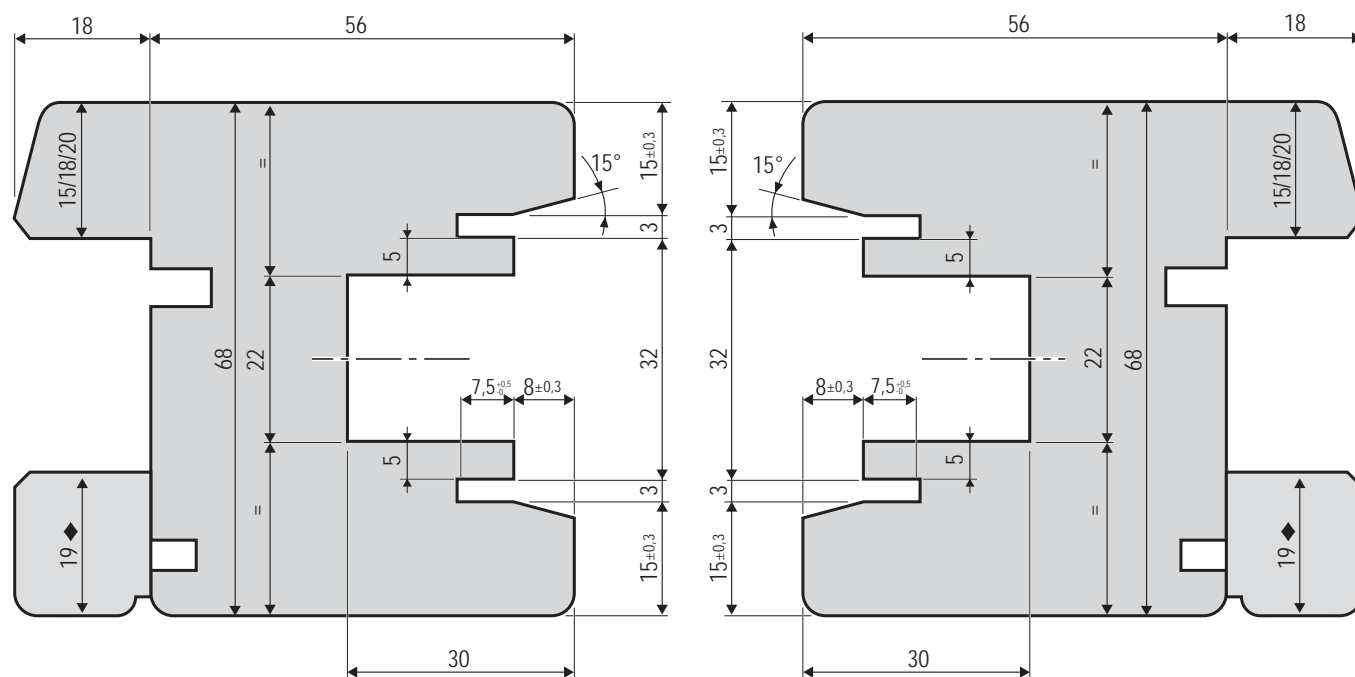


Wood detailing: central point horizontal section - Layout E

Scale 1:1

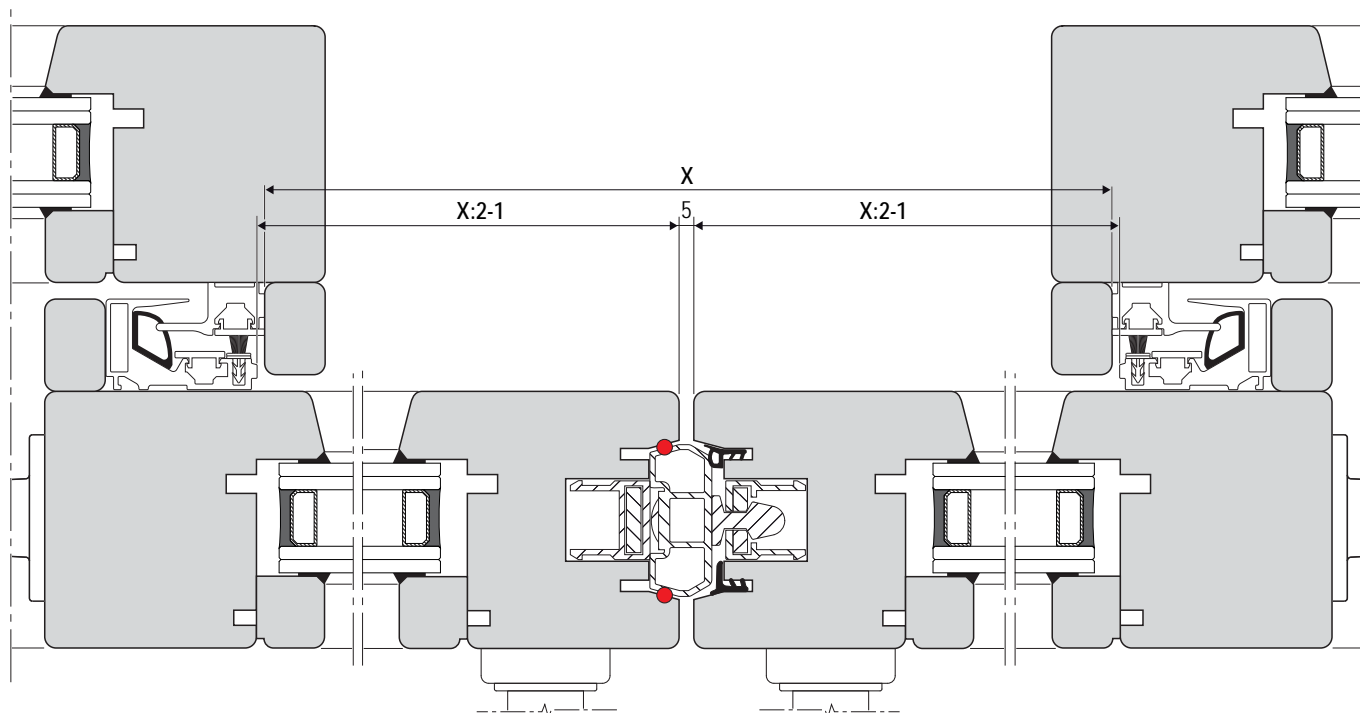


The glazing bead dimensions and the lower termic profile suppose the use of a 31 mm glass shim.

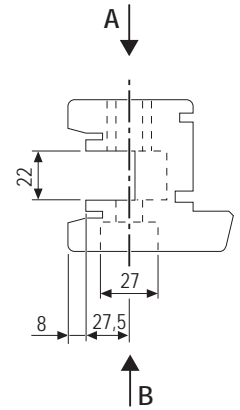
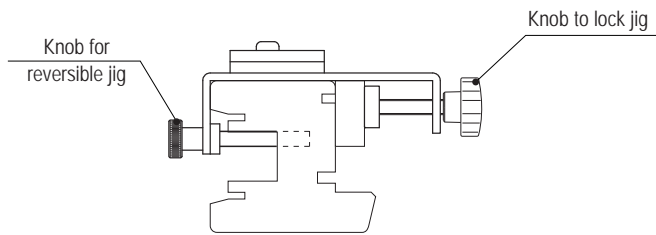


◆ Value calculated depending on a 18 mm external glazing bead shim

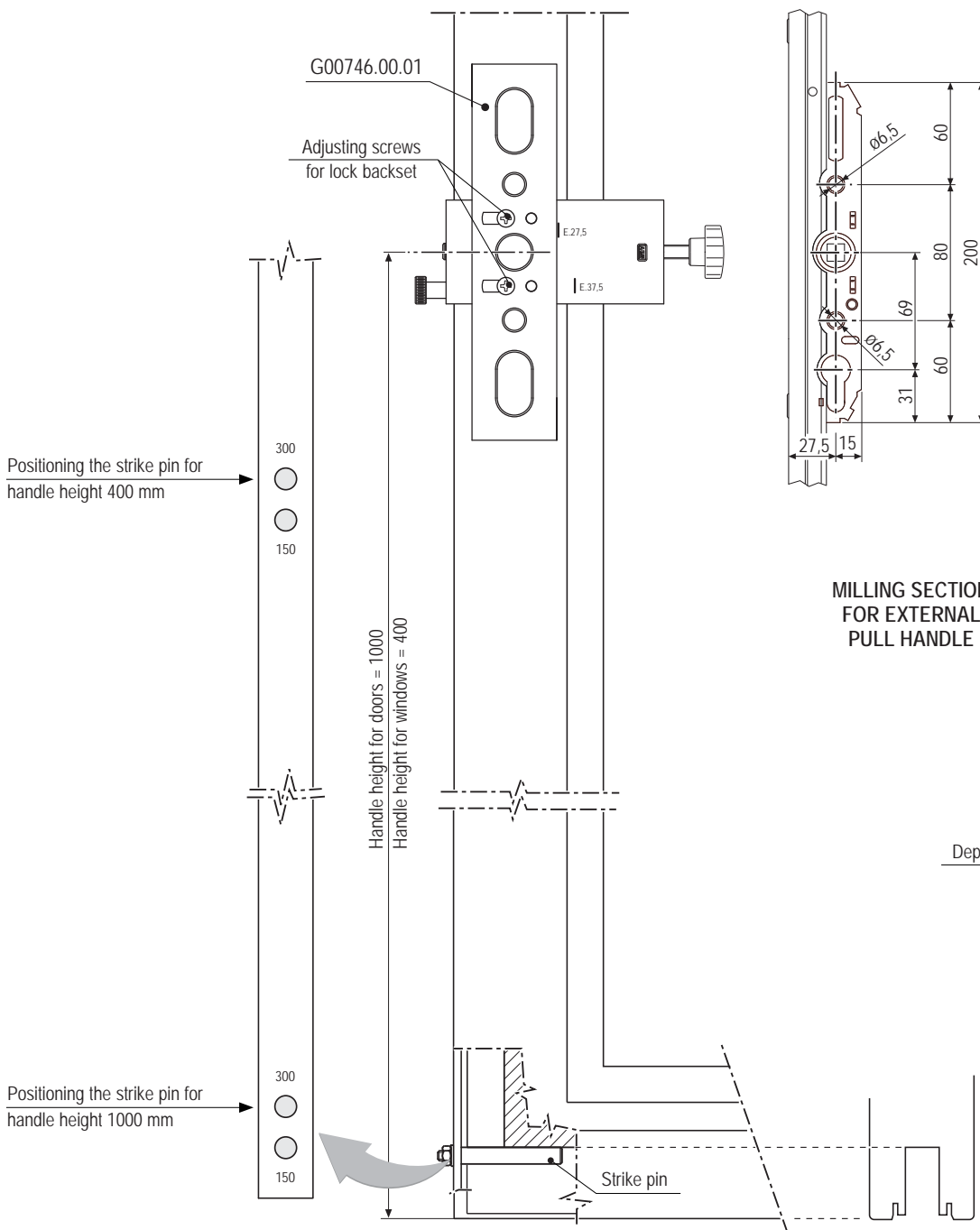
Central profile and beak on sliding sash positioning- Layout E



Locks hole realisation

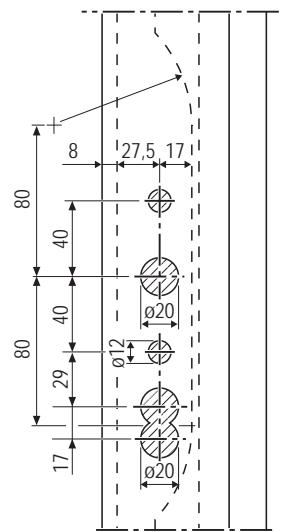


POSITIONING THE JIG

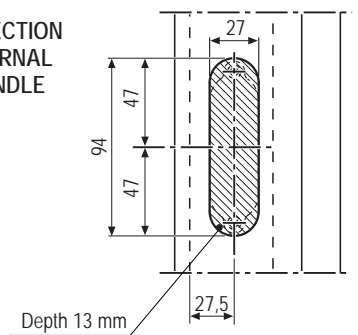


HANDLE HOLES

VIEW "A" - INT. SIDE

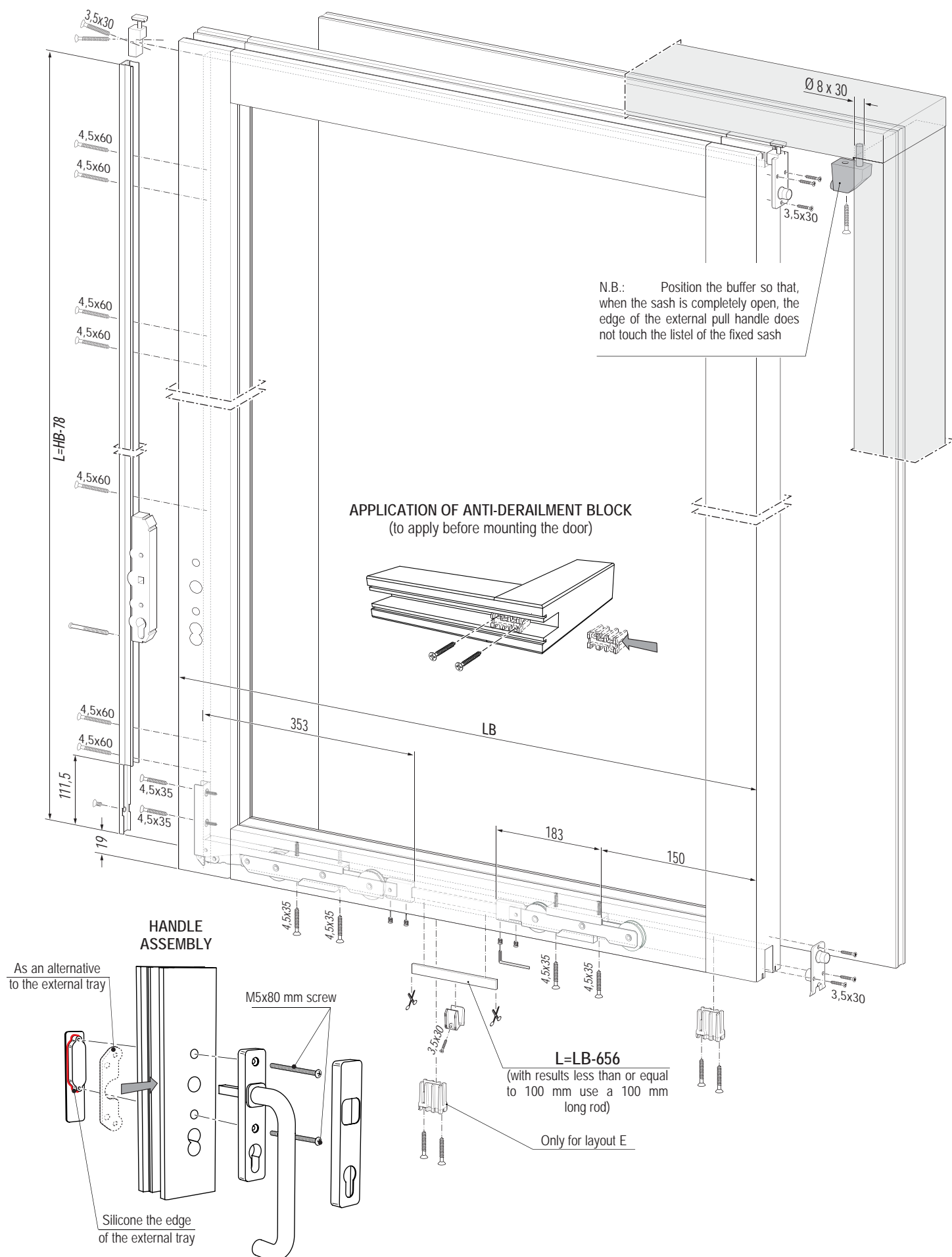


VIEW "B"

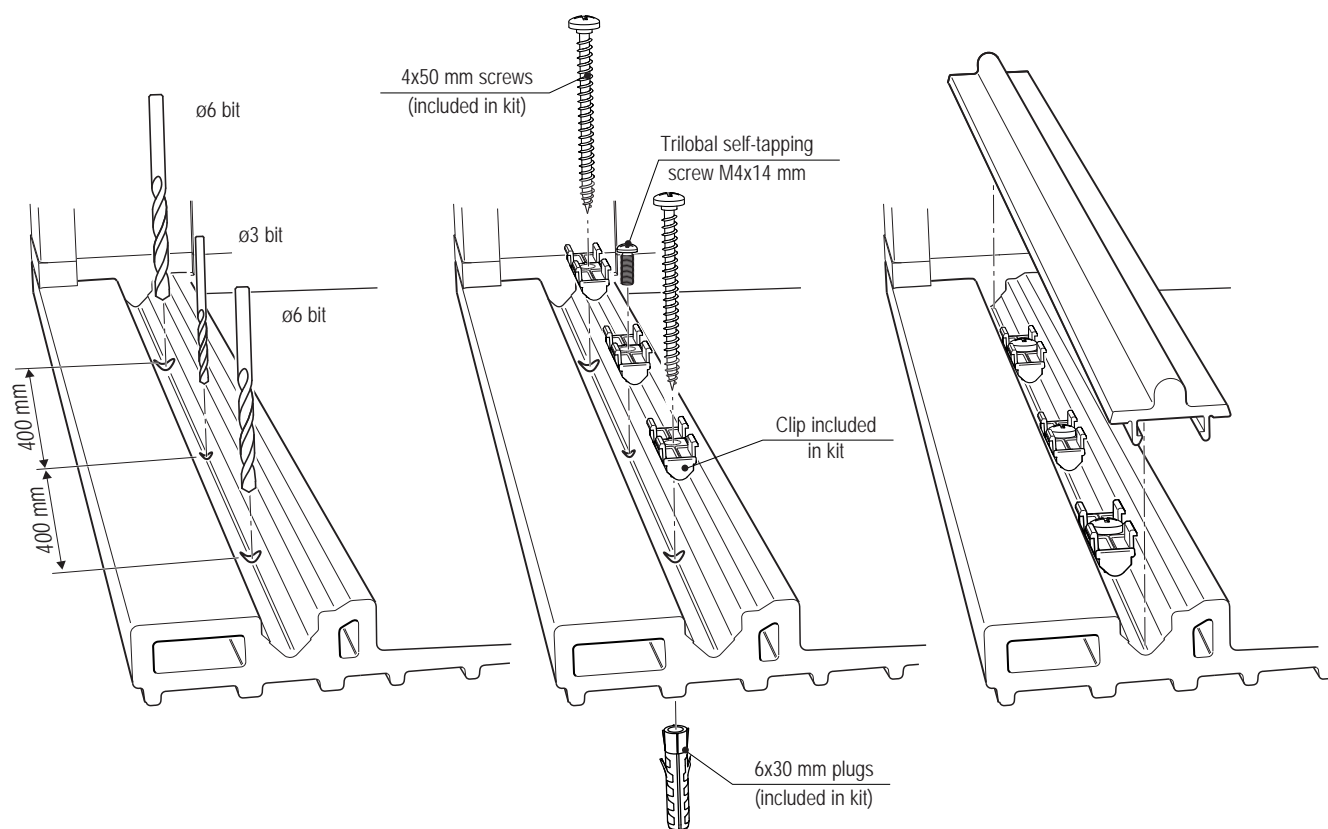


MILLING SECTION
FOR EXTERNAL
PULL HANDLE

Mounting carriages, lock and accessories

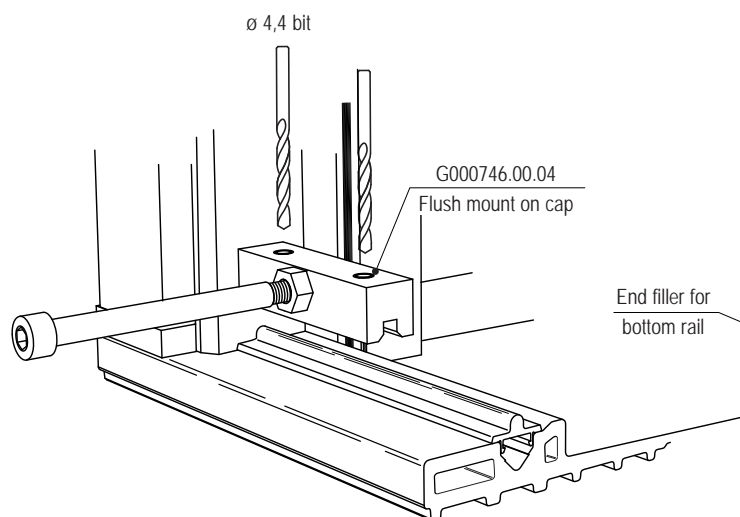


Threshold fastening

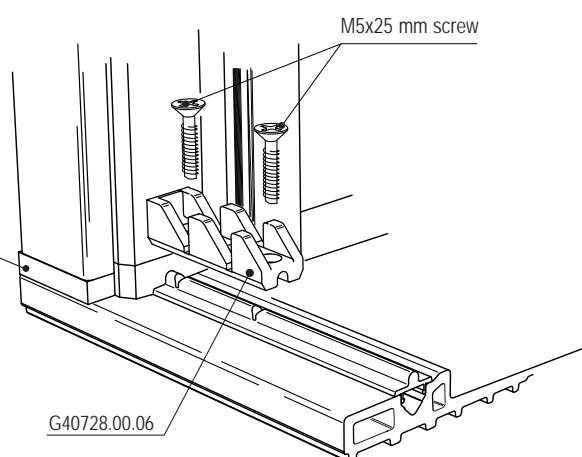


Ventilation striker application

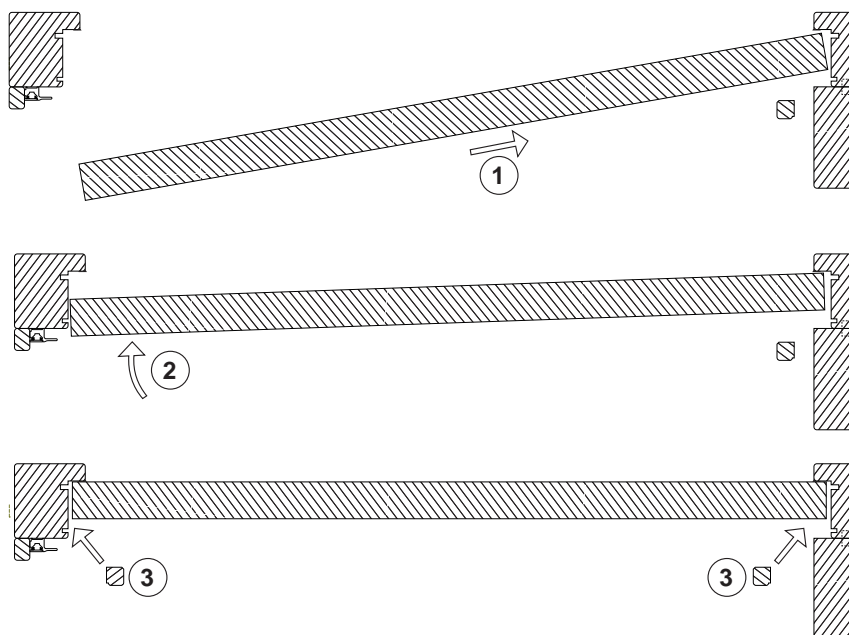
JIG FOR VENTILATION STRIKER APPLICATION DETAIL



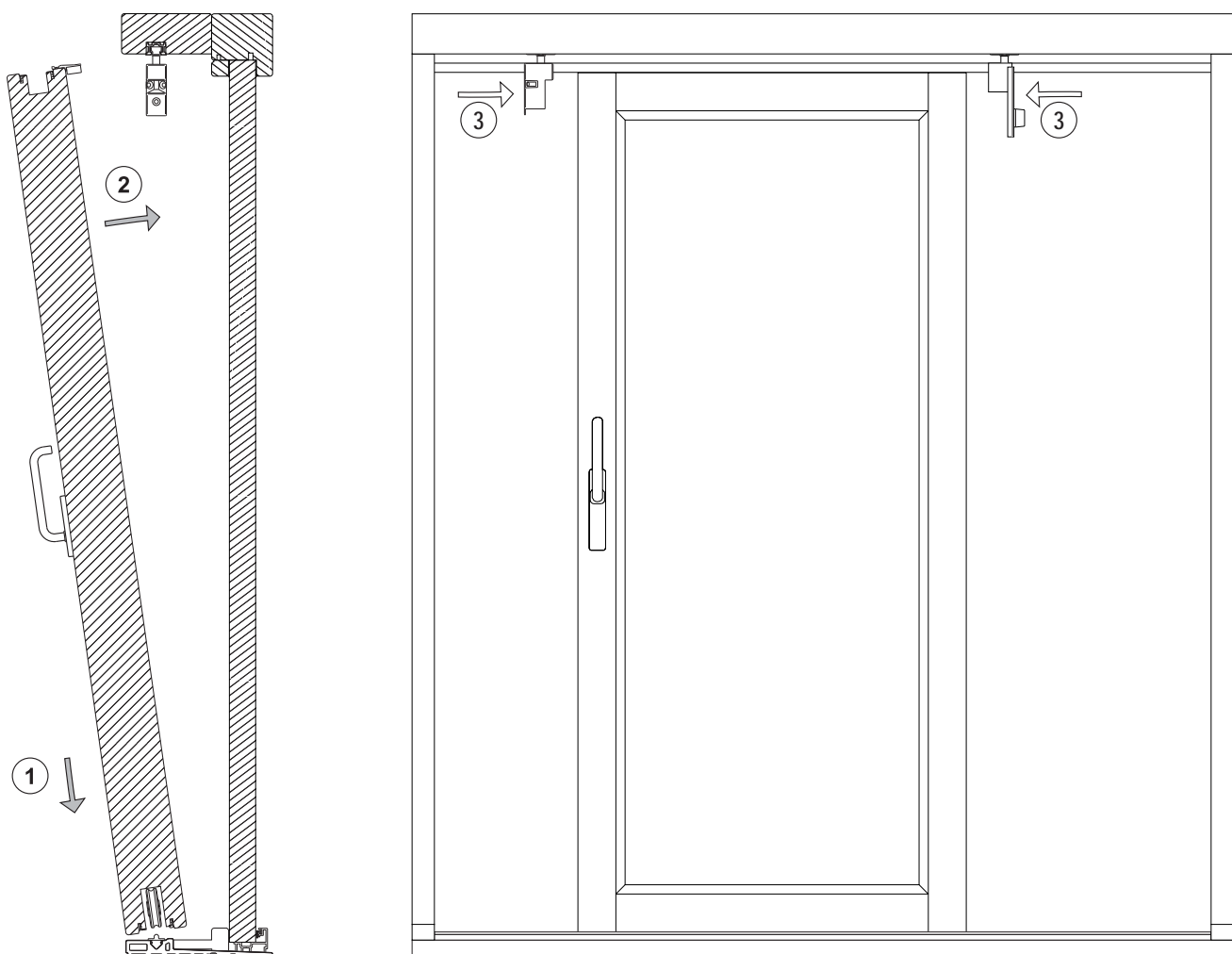
VENTILATION STRIKER APPLICATION DETAIL



Positioning of the fixed sash glass

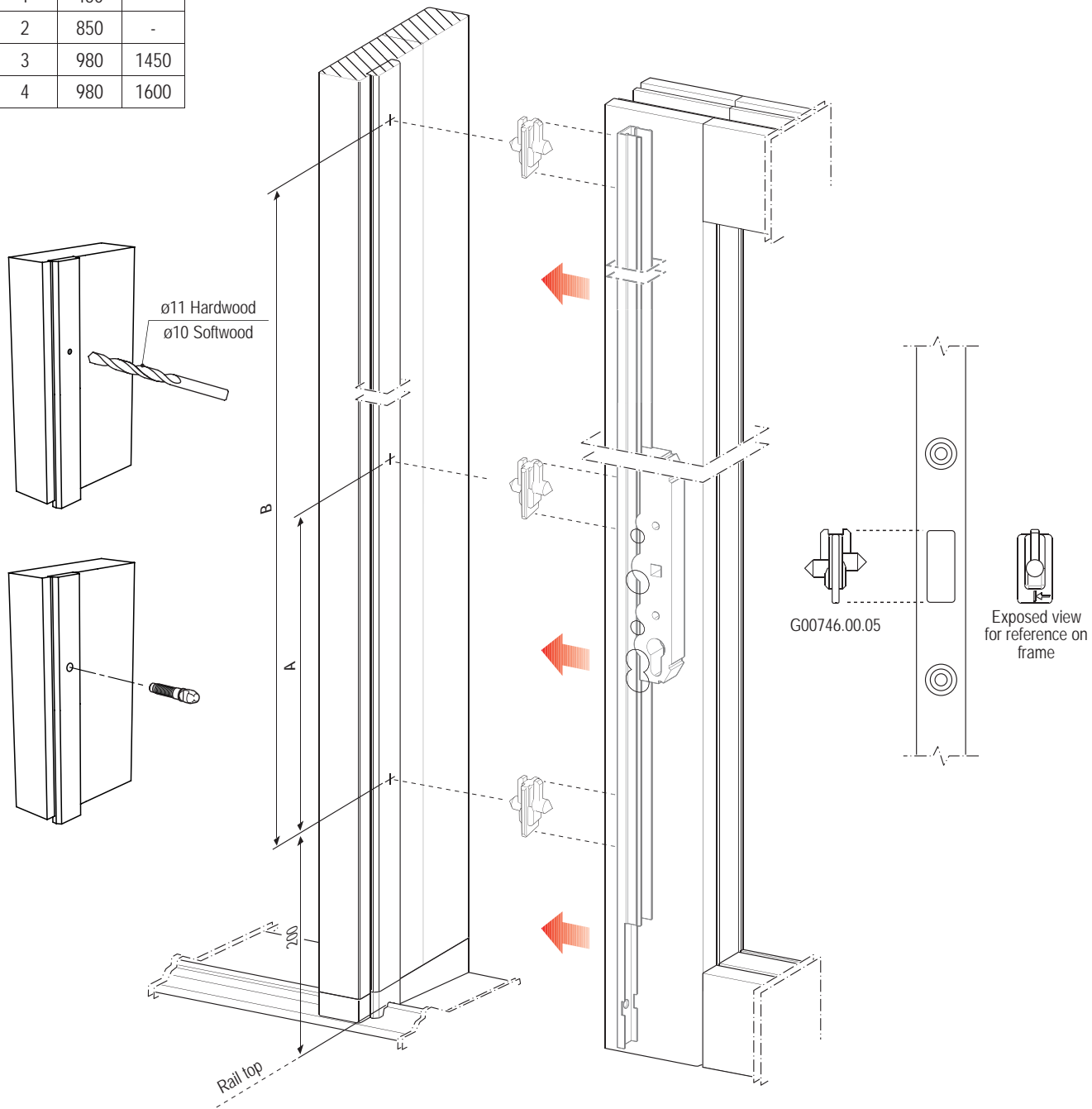


Sliding sash assembling

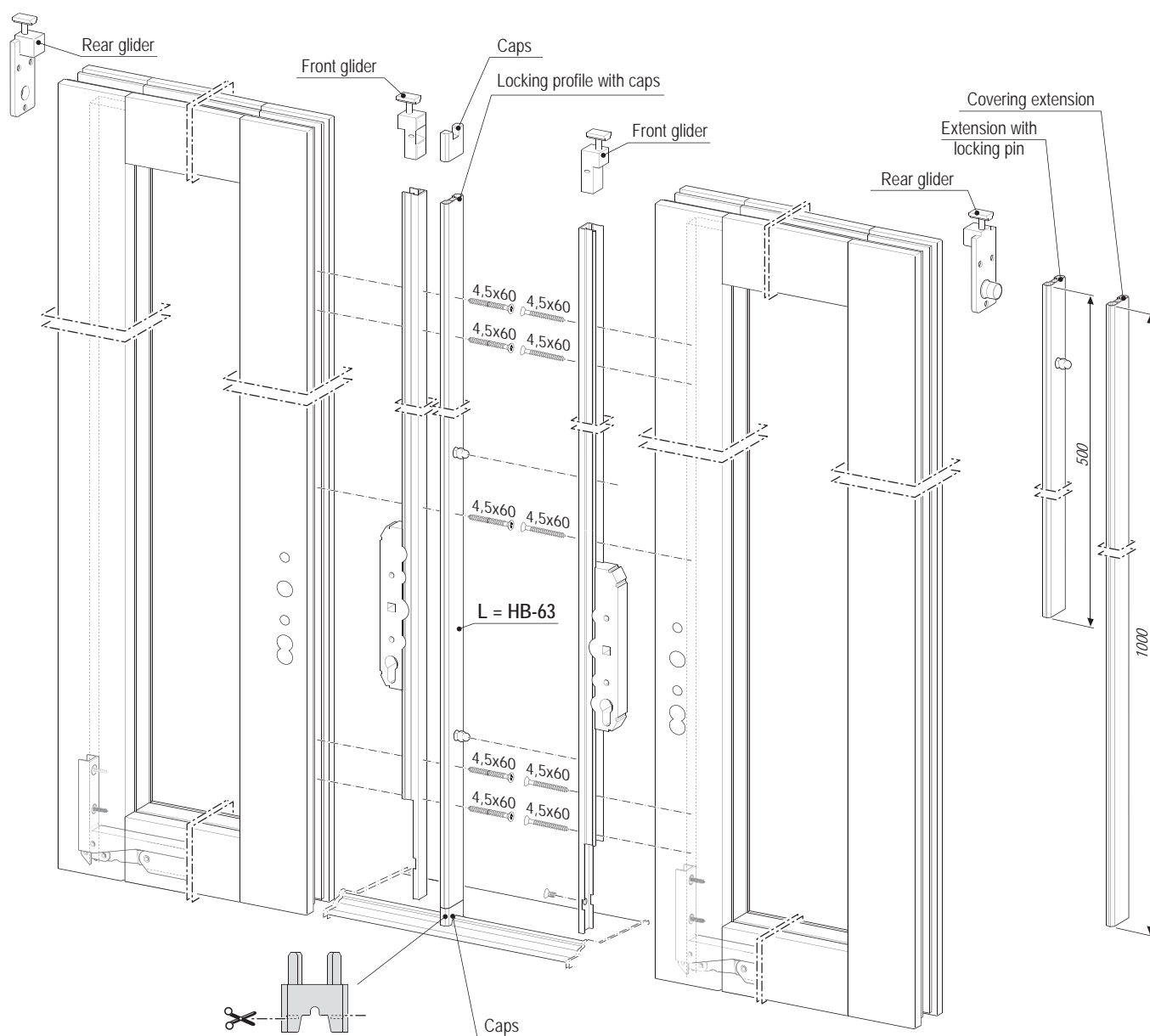


Locking pin mounting on wooden pin holder profile

PIN DISTANCE		
GR	A	B
1	450	-
2	850	-
3	980	1450
4	980	1600

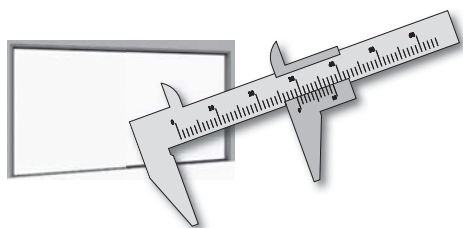


Particular locking profile for central point with symmetric coaxial sashes



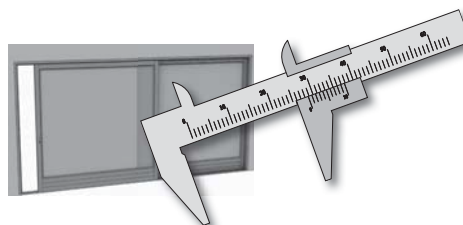


Steps to take for factory process control (FPC)



Frame component measurements and techniques for air-water tightness

- 1 - Notice the length and the width of the top transom and the vertical jambs
- 2 - Check that the width and depth of the milled housing for the aluminium top guide and the wooden strips are in accordance with the instructions included in this technical catalog.
- 3 - Check the length and the width of listels
- 4 - Check if the threshold length, snap-in rail and the glass holder correspond with the indications in this technical catalog.



Sash component measurements and techniques for air-water tightness

- 1 - Based on the frame measurements, calculate, according to the instructions provided in the technical manual, the measurement of the sashes (LxH) and check that the dimensions of the sash produced correspond to those calculated.
- 2 - Check the orthogonality (square) of the sashes by measuring the diagonals: it is very important that they are the same for correct operation and closing.
- 3 - Verify that the thickness of the sash is exactly 68 mm.
- 4 - Check the width of the milling 22x47 mm for the carriage embedding and control they are exactly in the middle of the 68 mm shim.
- 5 - Check depth and width of the milling to the gaskets embedding and control the status in order to avoid dirty and remaining glue/varnish.
- 6 - Check the depth and position of the lock hole.
- 7 - Check the coplanarity of the bottom jamb/transom joints of both leaves. Level with stucco if required, in order not to compromise the seal.
- 8 - The double glazing sheets should have silicone applied on both on the rebate support as well as around the outer perimeter, on the wooden frame and the aluminium glass holder profile.
- 9 - Silicone the internal glazing beads or use the specific gaskets.
- 10 - Apply a silicone bead inside the groove for the bottom outer gasket before inserting it.



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