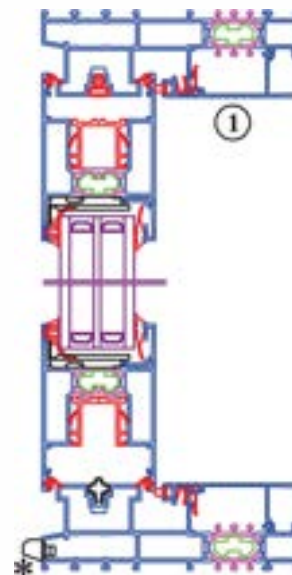
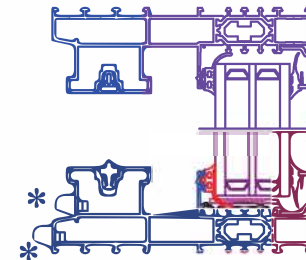


Alakarmin ei saa tehdä kiinnitysruuvireikiä.
Vesi saattaa ohjautua rakenteisiin.



Kiinnitysruuvireiät pysty- ja ylävaakakarmissa. Peitetulpat reikiin mukana.
Alakarmin kiinnitykseen kääntöraudat n. 5 kpl /ovi, leveydestä riippuen (kuva)

Alakarmin vesitulpat irrallaan mukana *
Sivu- ja yläpeitelistat irrallaan mukana ① (asennuskuva liitteenä)

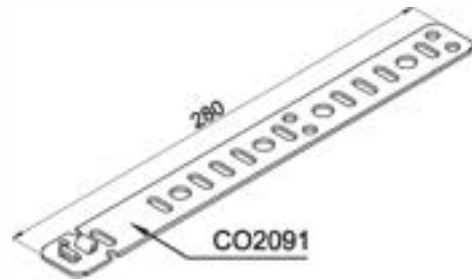
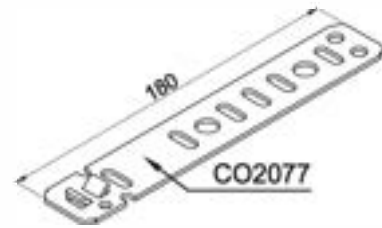
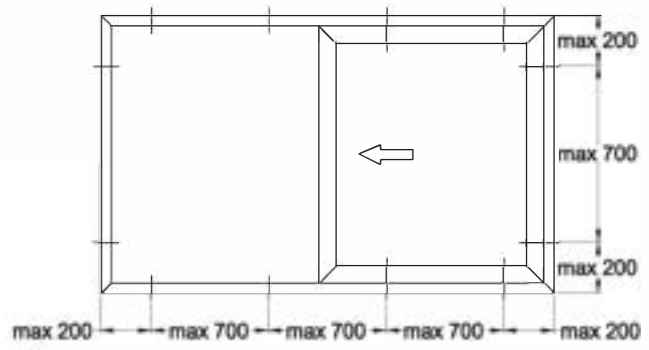
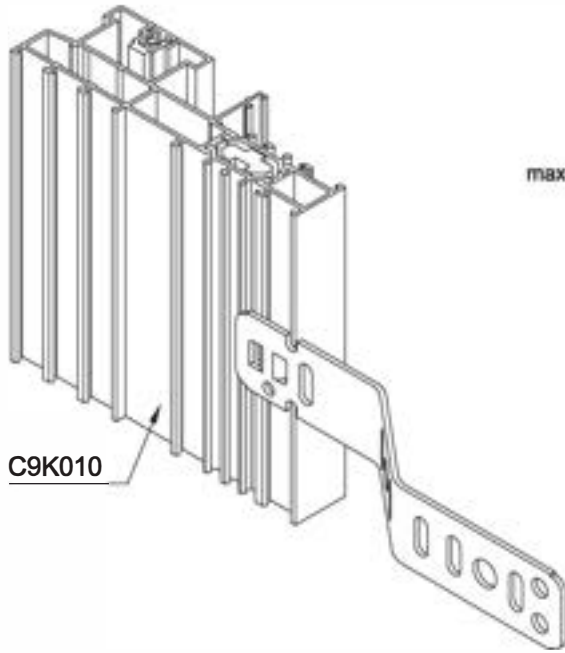


**Oven toimivuuden takaamiseksi, ovi on asennettava ehdottomasti suoraan joka suunnassa.
Alustan on oltava mahdollisimman tukeva ja joustamaton.**

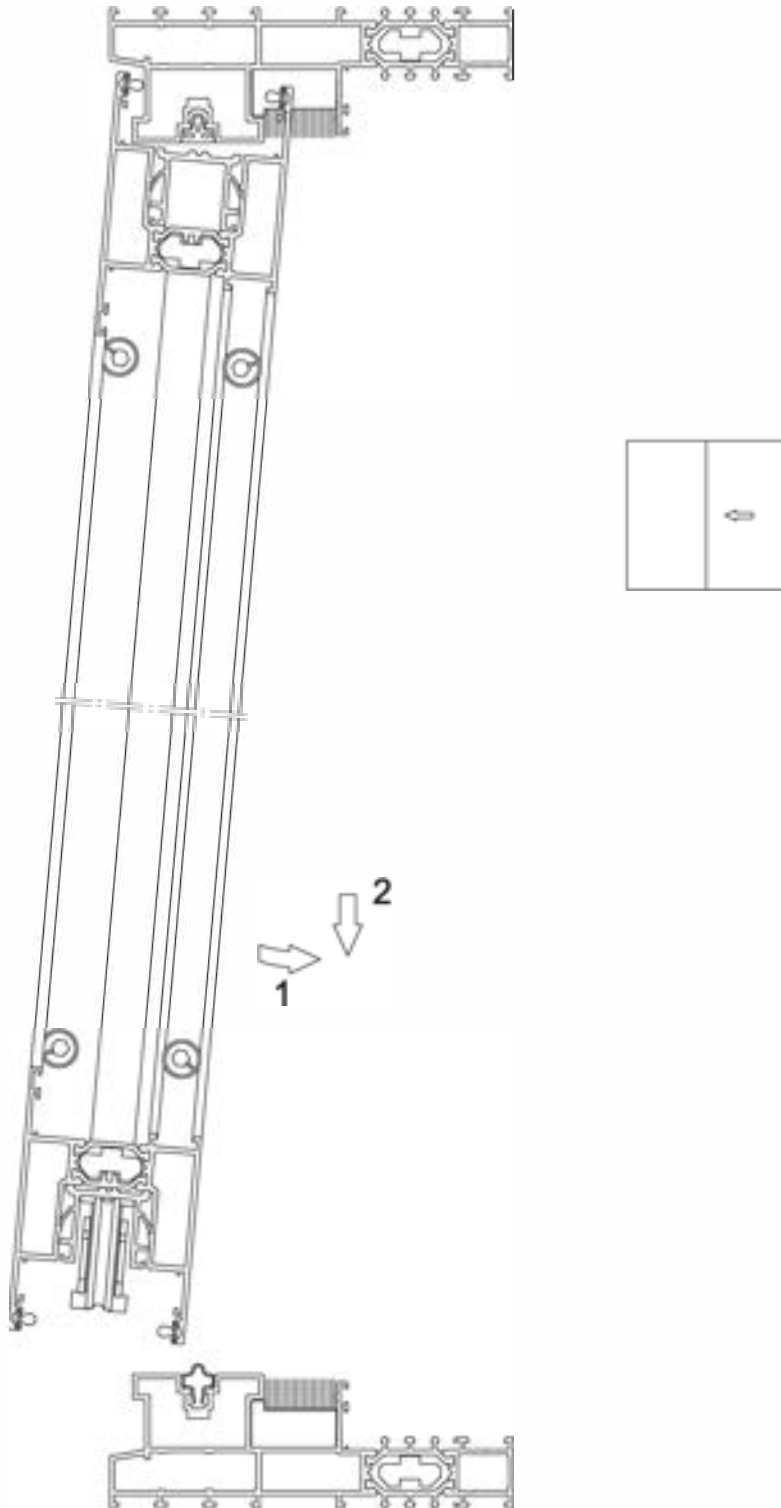


Objekt:	ObjektNr:
System: SFB 2160	Antal:
Littera: NLIUO	Utv. kulör:
	Inv. kulör:
	Skala: 1 : X
Datum:	Revdatum:
Beredare: Harri	Utskrift:

CO2077 / CO2091 ON FRAME C9K010

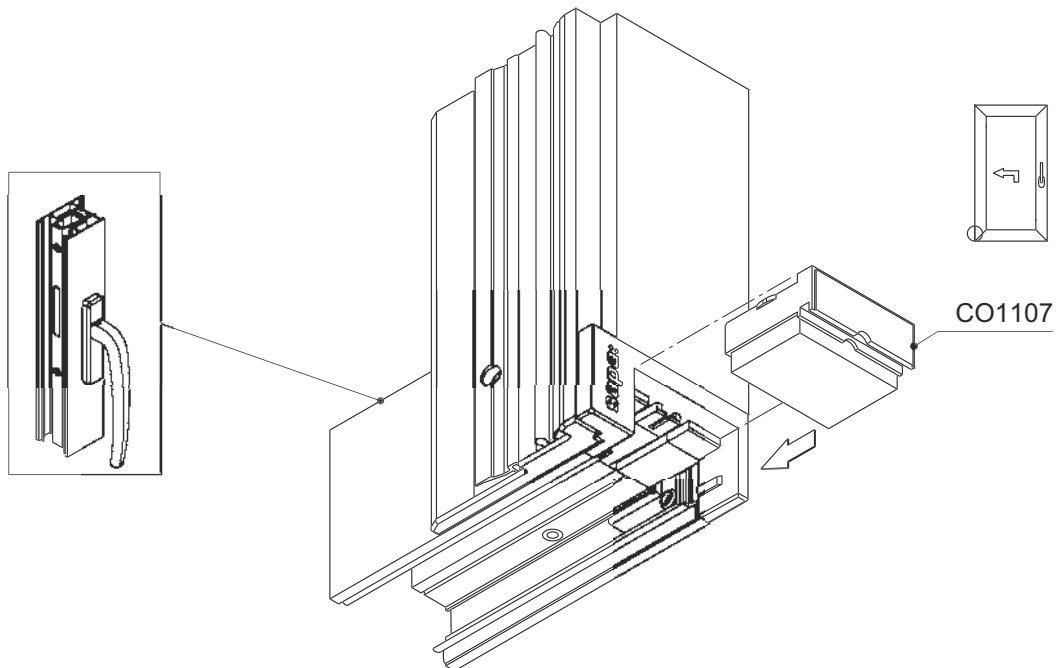
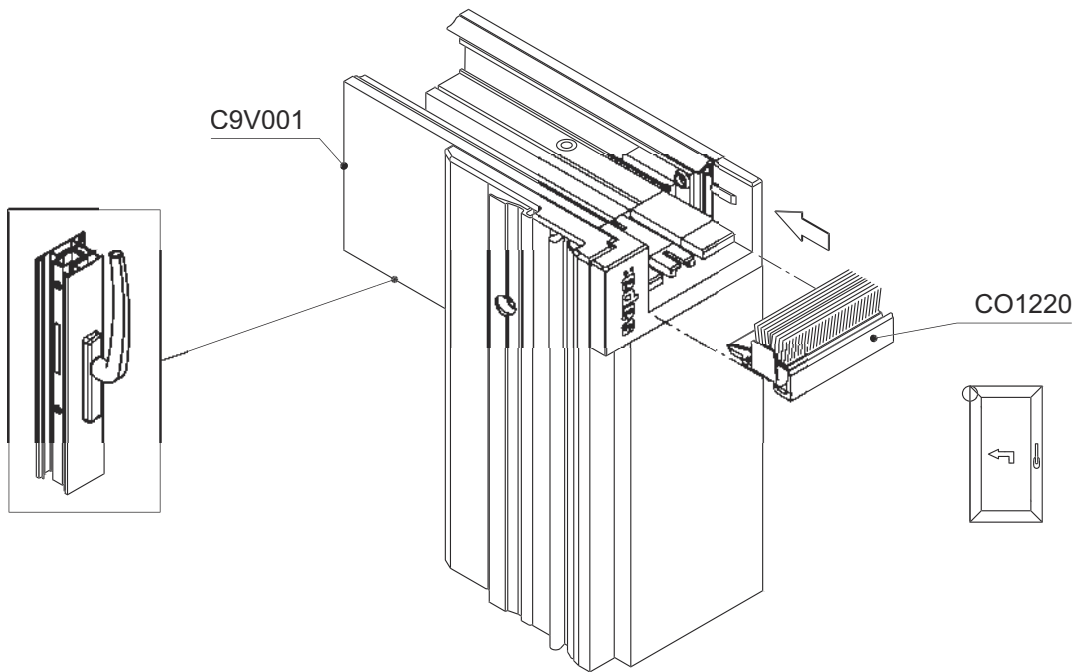
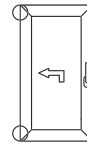


VENTS IN FRAME C9K010

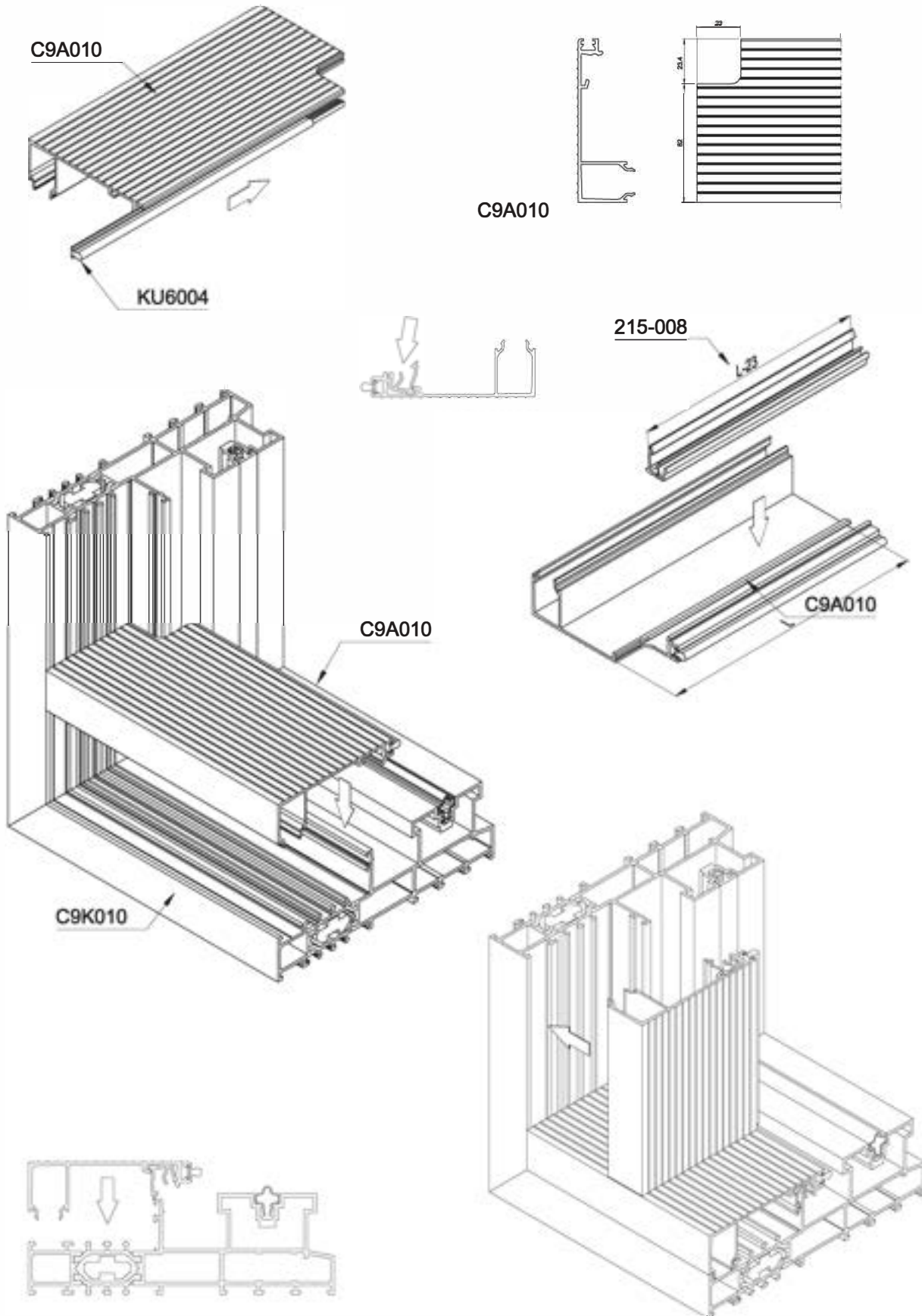


LIFT-SLIDE VENT - ASSEMBLY OF SEALING PIECES IN VENT

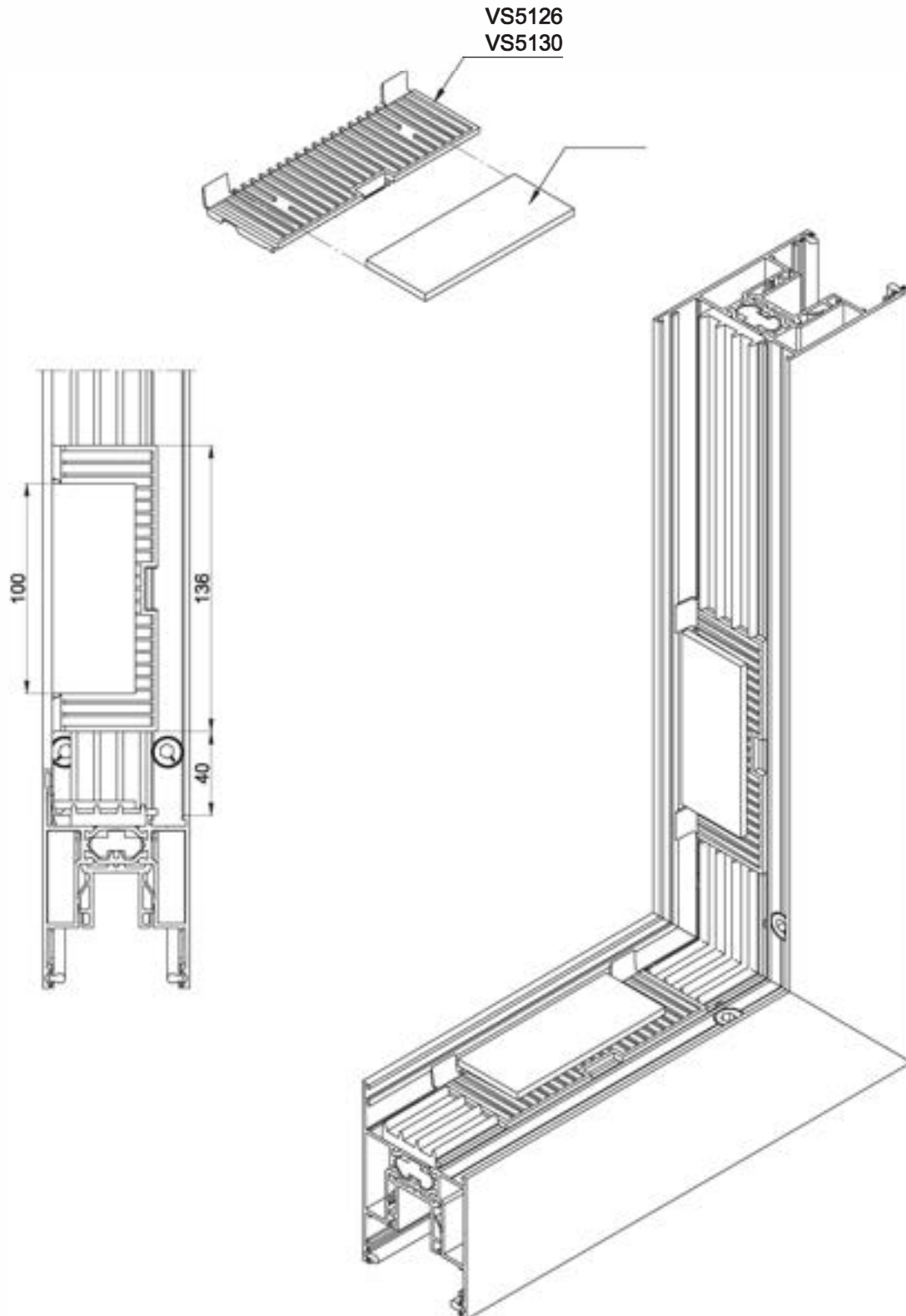
J.12.6



C9A010



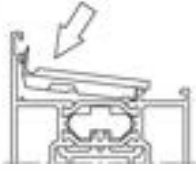
GLAZING PACKER 93084 ON GLAZING WEDGE



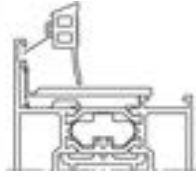
- **REMARK:**

Glazing packer must support all components of the window-pane.

GLAZING GASKET RU0002



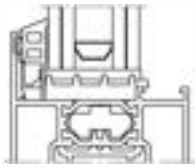
Installation of the glazing support.



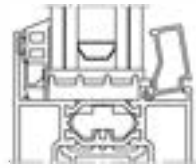
Installation of the outer gasket RU0002.



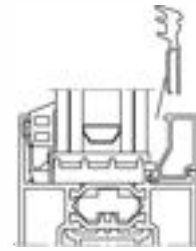
Installation of insulation profile KU5001.



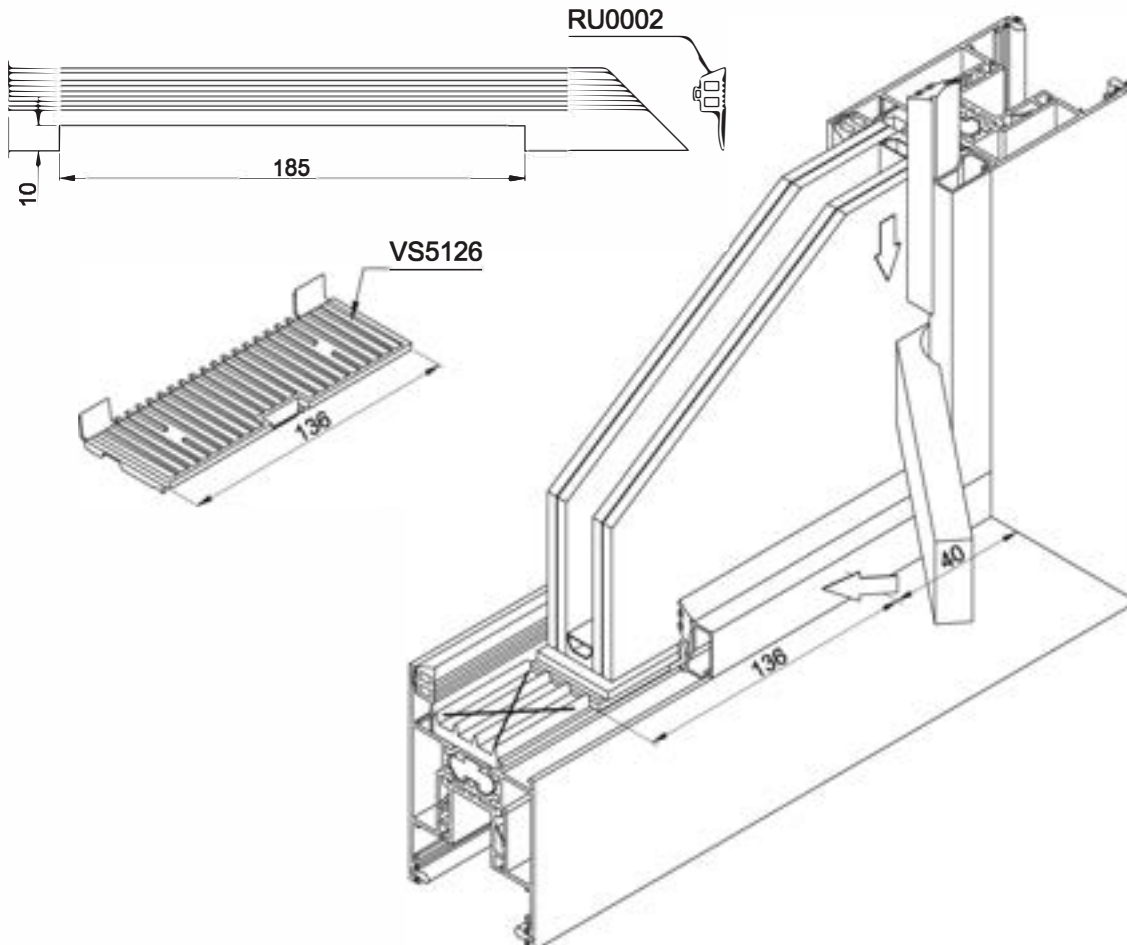
Installation of the glass.



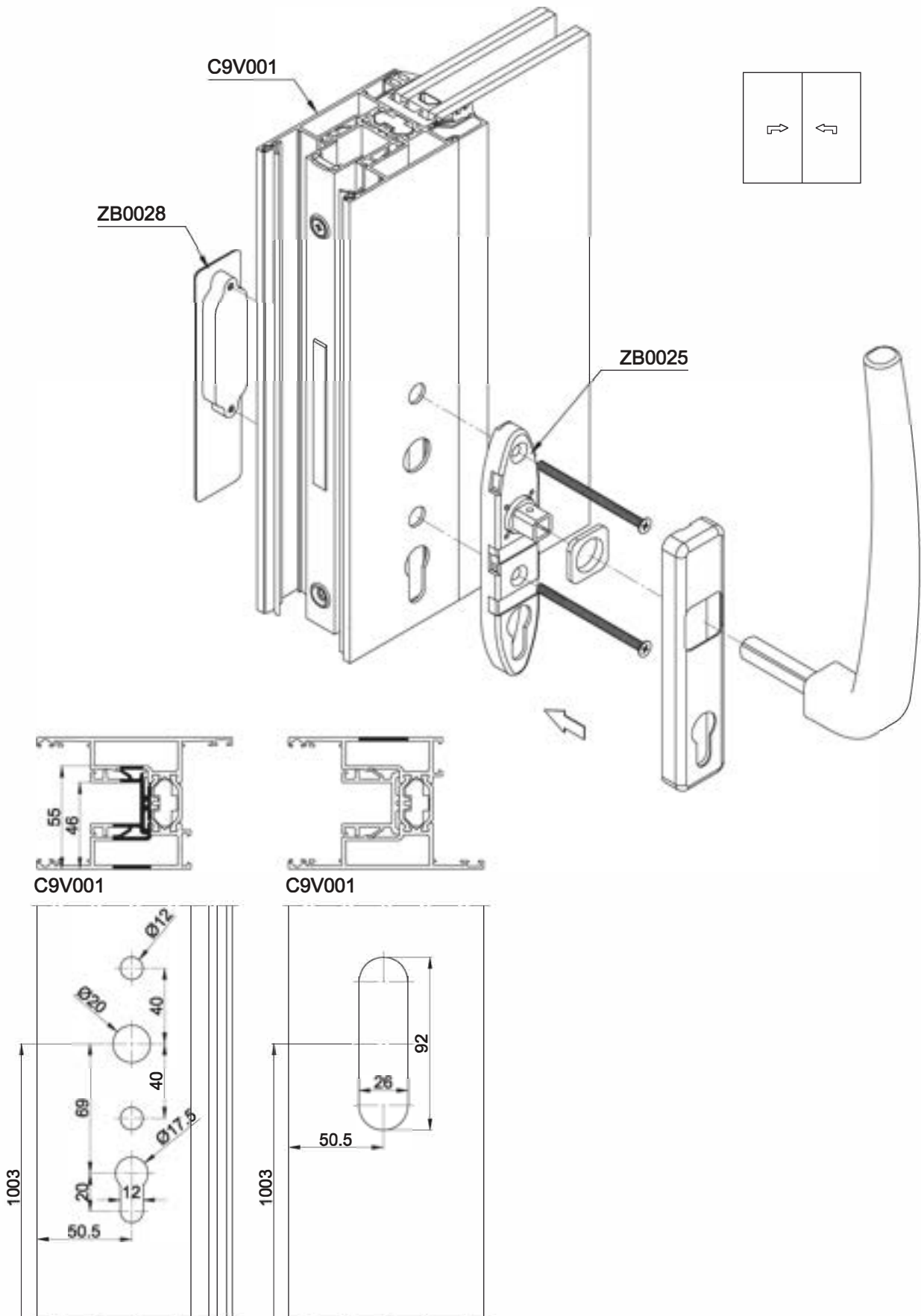
Installation of the glazing beads.



Installation of the inner sealing gasket.



HANDLES ZB0025 AND ZB0028



SAPA LIFT-AND-SLIDE DOOR 2160/2160 S

INSTALLATION INSTRUCTIONS



sapa:

By  Hydro

Sapa Lift-and-Slide Door 2160/2160 S

Installation instructions

General information

Please note that this instruction is based on Swedish building regulations and standards. If the product is to be installed in another country, the corresponding country-specific building regulations and standards should be followed.

First, compare the dimensions of the frame supplied with the fabrication drawing for the project. Check that the dimensions match the wall opening and that there is sufficient space for insulation/sealing. In addition to the instructions in this document, refer to the following general regulations and Swedish standards for supplementary information:

- Swedish construction standard for house building AMA Hus 18 chapter NSC
- AMA Hus chapter KHD
- Swedish Standard SS 817332, Dörrar och fönster – Karminfästning – Klassindelning och val av don (Doors and windows – Frame fitting – Classification and selection of hardware).
- Swedish Standard SS 818143, Fönster – Placering av fästhål (Windows – Placement of fixing holes)
- Svensk Standard SS 817052, Dörrar – Grundläggande mått (Doors – Basic dimensions)

The installation instructions assume that walls, floor and ceiling are correctly dimensioned and comply with the recommendations in AMA Hus.

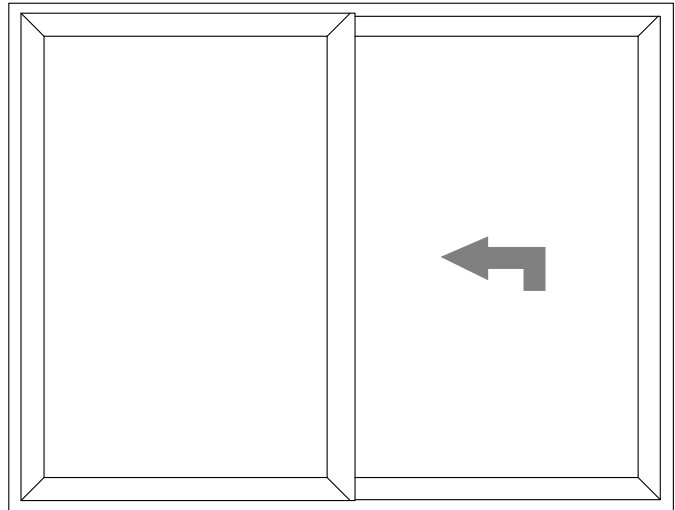
Transport, storage and handling

From AMA Hus:

Glazed windows, French doors and glazed wall partitions must be transported and stored in the same orientation in which they will be installed, i.e. with the sill at the bottom. Alternatively, they may be transported and stored in a different orientation if the goods are secured with transport packing between the frame and sash. Products must be stored on a level surface in a dry, well-ventilated area that is protected from rain.

Hardware that is supplied separately must be stored indoors. During the construction period, windows, French windows, doors and the like must not be exposed to a humidity level that exceeds the normal humidity level in use.

The manufacturer's instructions for transport, storage and installation must be followed.



Important: Glazed partitions are not load-bearing. No external load may therefore be exerted on this fabrication.

If any sagging of the structure above is likely, the top of the frame must be secured with wall anchors, and without glazing blocks. If the structure above is expected to sag by a very small amount or not at all, glazing blocks may be used.

Preparing for installation

1. Check that openings are plumb and level

When installing lift-and-slide doors it is essential that they are installed absolutely plumb and level. Check with a long spirit level that the opening for the doors is level and rigid. Fig. 1.

Note: Check with a spirit level frequently throughout the installation process.

The recommended gap between the frame and wall is 15–20 mm.

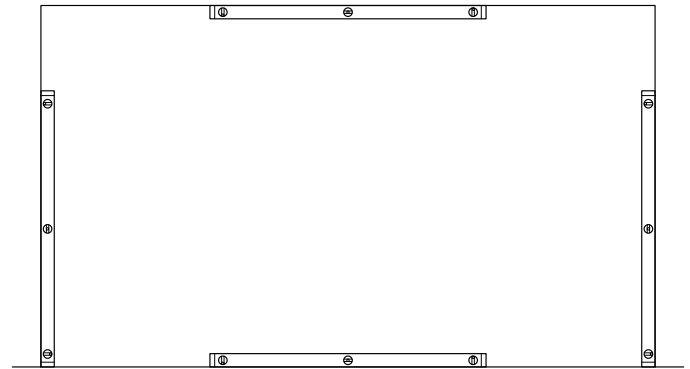


Fig 1

2. Distance between fixing points

Max. distance between fixing points, 700 mm. Where fixing points are not pre-drilled at the factory they should be located as shown in Fig. 2.

For installation we recommend the use of adjustable frame fasteners that comply with Swedish Standard SS 817332 or Sapa wall anchors, CO2077 or CO2091.

1. Frame fastener
2. Wall anchor

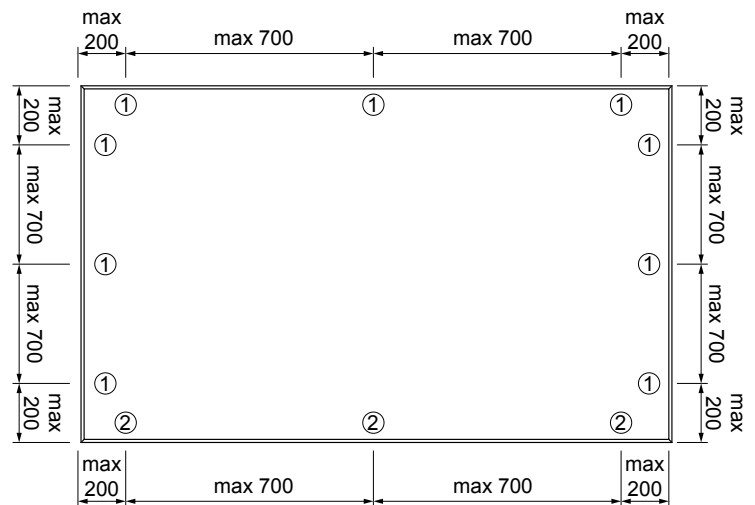


Fig 2

3. Check the fixing points

Check frame fasteners or fit wall anchors. Fig. 3 shows the fixing of the frame with frame fasteners. Alternatively, it can be fixed with wall anchors. Fig. 4 shows the threshold rails, which are always fixed with wall anchors.

To avoid leakage through the profile the frame bottom must not be fixed with penetrating screws. It should instead be fixed with wall anchors CO2077 or CO2091.

Spacers may need to be added at the base of the opening to ensure the threshold is level and at the correct height. These should be placed next to each fixing point and at the required intervals between, as shown in Fig. 4. The threshold must be level and firmly supported.

If an insulation gap is not left below the threshold it must be sealed against water and draughts using an appropriate method and materials (e.g. joint mastic, butyl sealing tape, plastic-coated insulation). Prepare this seal before the frame are placed in the opening.

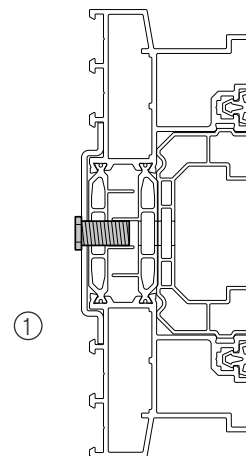


Fig 3

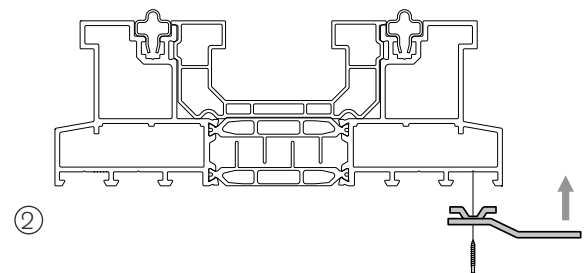


Fig 4

Fitting tilt-and-slide doors

1. Secure the frame temporarily

Fix the frame temporarily in the wall opening by screwing out a frame fastener at each corner. Adjust the four frame fasteners so that the sides are plumb and the bottom is perfectly level. Fig. 5.

In the case of wide tilt-and-slide doors it is recommended that the top and bottom of the frame are checked with a laser level or builder's straight edge.

When wall anchors are used for installation they should be bent to an angle that matches the wall.

2. Checking diagonal dimensions

Check that the diagonal measurements are within 2 mm of each other. Fig. 5.

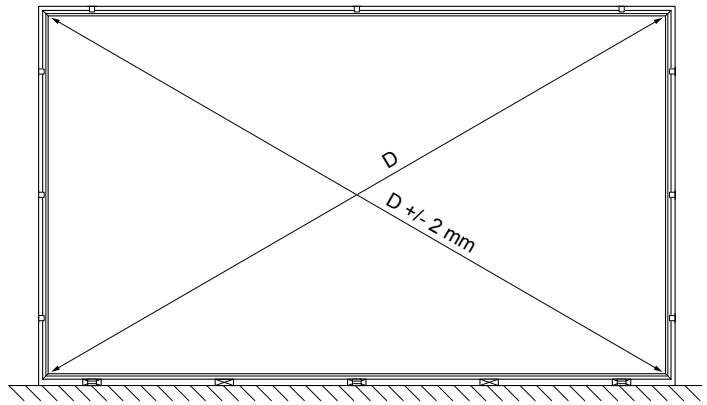


Fig 5

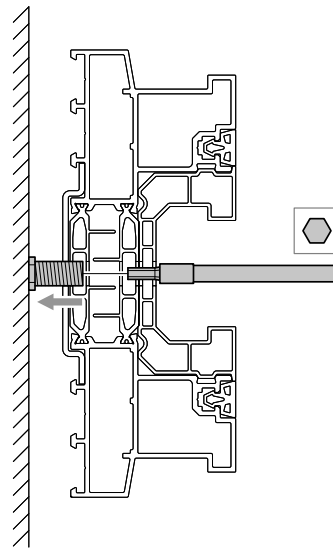


Fig 6

3. Fixing the tilt-and-slide doors

Fit screws to the frame fasteners at each corner and tighten them.

Adjust the remaining frame fasteners, then fit screws and tighten them. Cover the fixing holes in the frame with cover plugs.

When installing with wall anchors a spacer should be placed at each fixing point. Fix the wall anchors with penetrating screws chosen to suit the substrate.

Figs. 7-8.

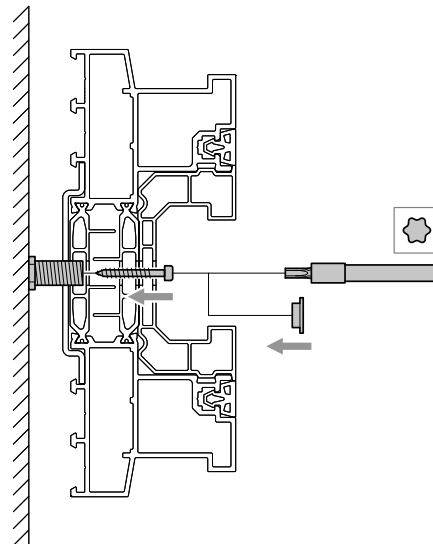


Fig 7

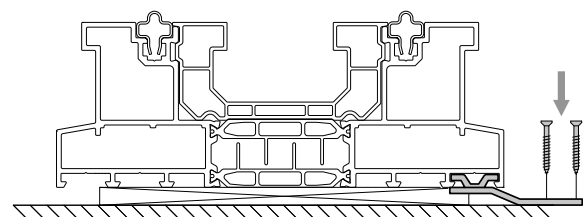


Fig 8

Fitting tilt-and-slide doors

4. Preparing to fit the door sheets

To simplify fitting the door sheets the pre-installed seal fitting can be removed from the top frame profile.

Removing the seal fittings, Fig. 9.

Refitting the seal fittings, Fig. 10.

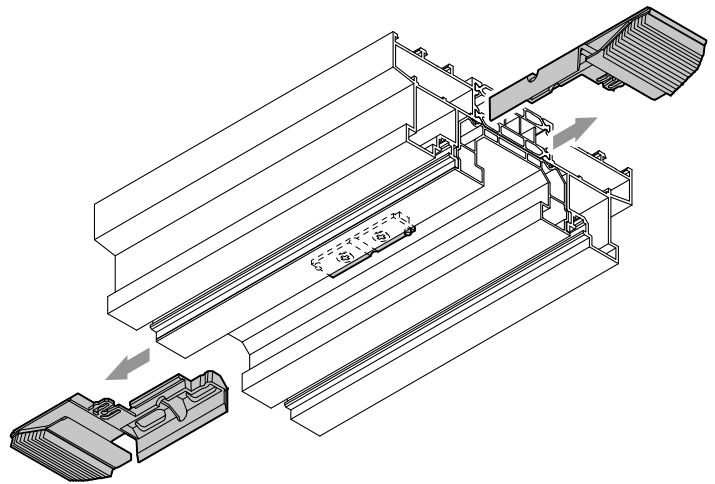


Fig 9

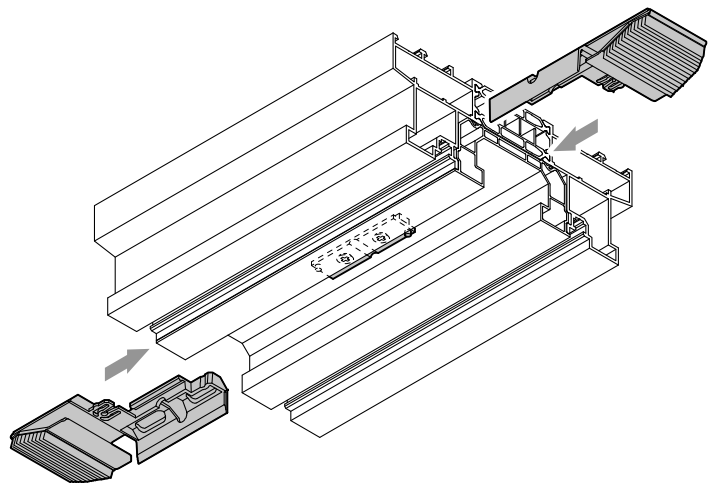


Fig 10

Fitting tilt-and-slide doors

4. Fitting the door sheets

Insert the door sheet and check that it slides smoothly.
Figs. 11–12.

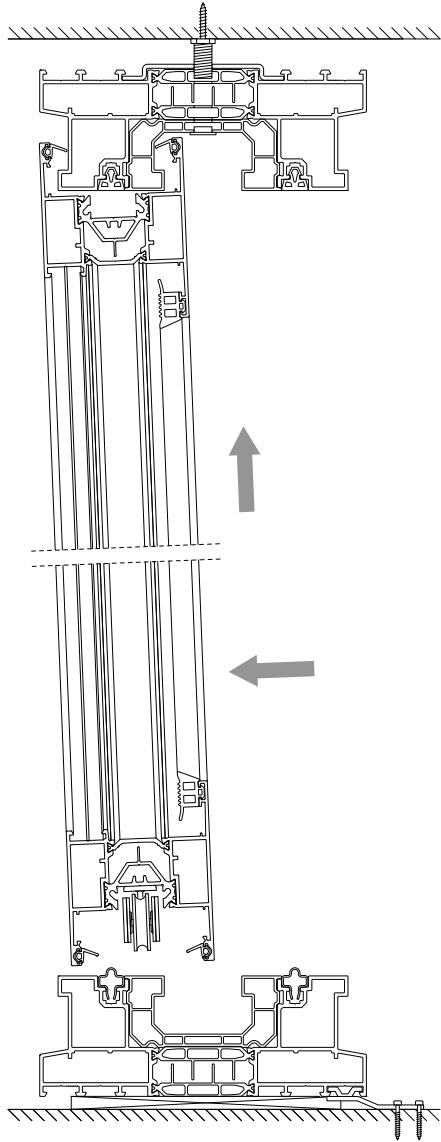


Fig. 11.

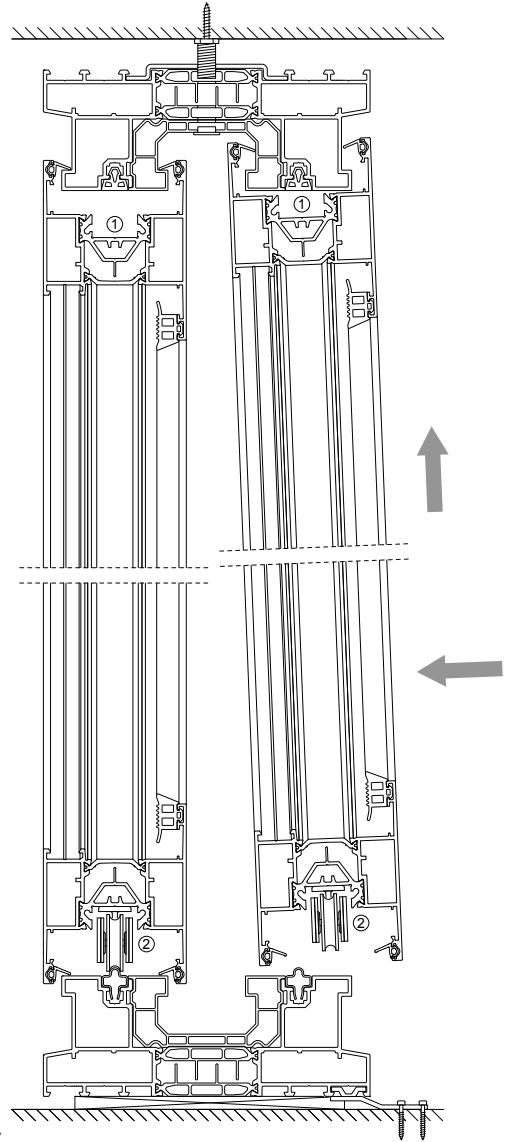


Fig. 12.

Fit the top profile end seal. Note that the handle should be turned upwards, in the closed position. Fig. 13.

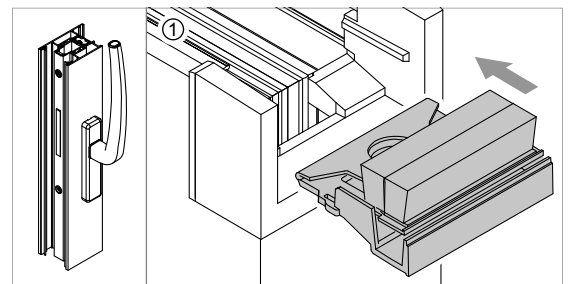


Fig. 13.

Fit the bottom profile end seal. Note that the handle should be turned downwards, in the open position. Fig. 14.

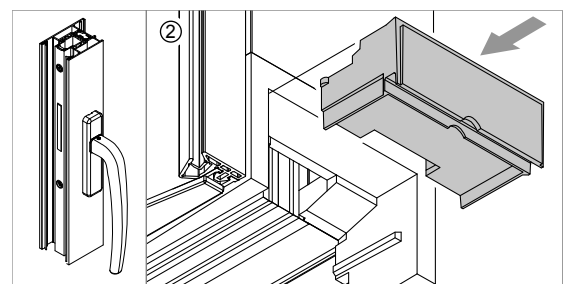


Fig. 14.

Fitting glazing units

If the glazing is supplied separately, carry out glazing as shown in Figs. 15–19.

Sealed glazing units, fitting glazing blocks

Blocks must be placed 50–100 mm from each corner.
Blocks must be made from a homogeneous, stiff material.
Plastic blocks must have a hardness of 70–90 Shore A.

1. Fitting glazing supports

Fig. 15.

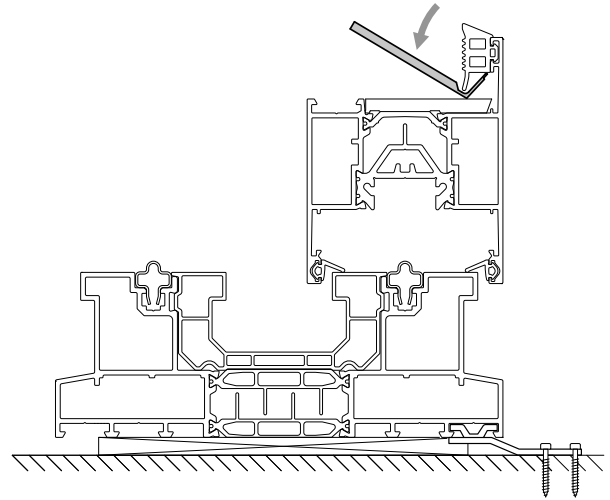


Fig. 15.

2. Fitting glazing blocks.

The glazing blocks must be 2 mm wider than the thickness of the glazing unit. Fitting glazing blocks in the base to support the glazing. Fig. 16.

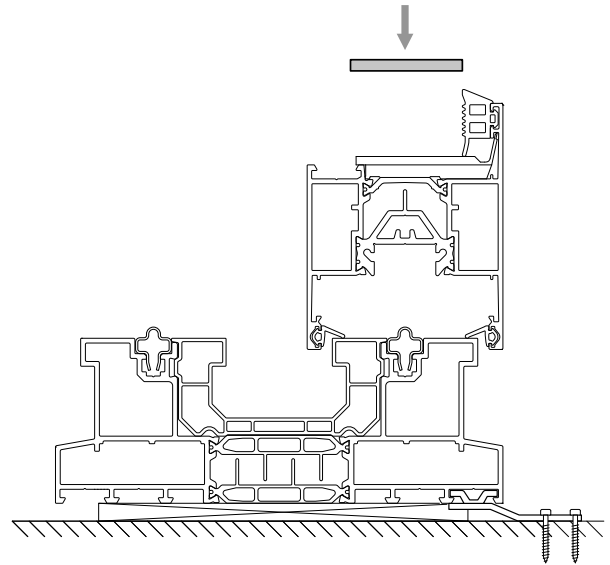


Fig. 16.

3. Fitting glazing

Fig. 17.

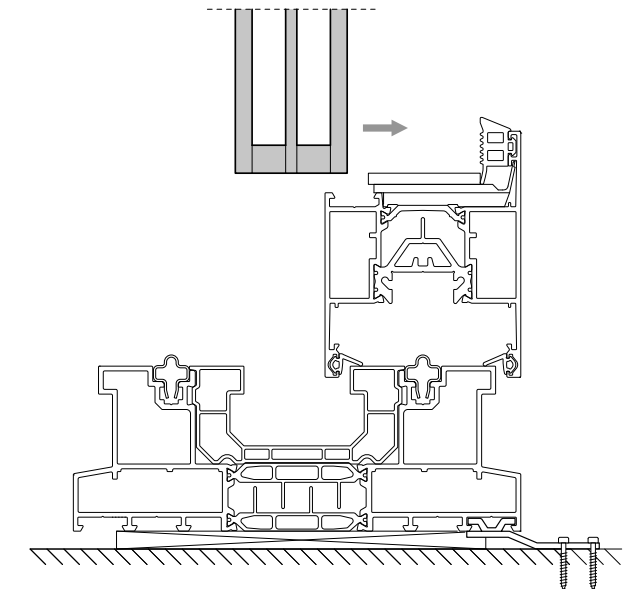


Fig. 17.

Fitting glazing units

4. Fitting glazing strip and gasket

Fit the horizontal glazing strips first. Fig. 18. Fit gasket to the horizontal glazing strips.

Fig. 19.

Then fit the vertical glazing strips. Fit gasket to the vertical glazing strips.

Important: Make sure the gasket has clean, straight cuts at the ends, and press the ends of gaskets firmly into the corners at the junctions between the gasket and frame profiles. **Do not pull or stretch the gasket.**

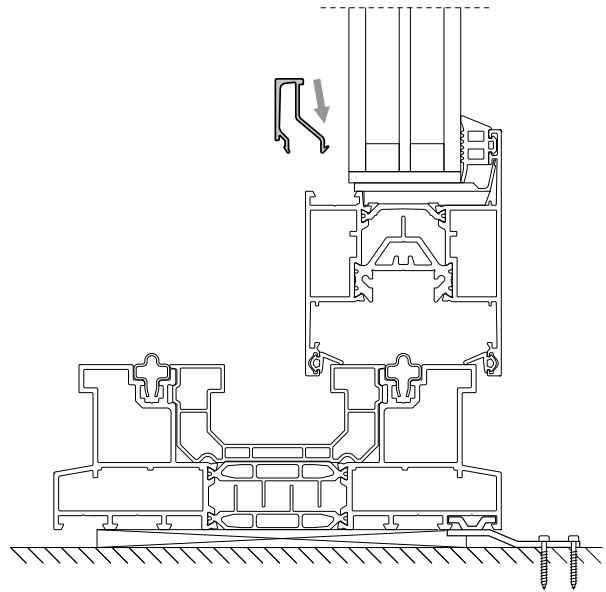


Fig. 18.

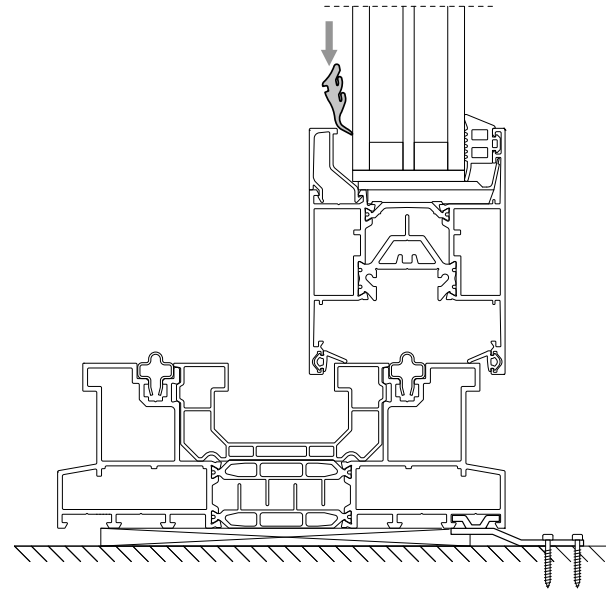


Fig. 19.

Sealing the assembly to the wall and floor

Insulation

The insulation between frames and exterior walls must allow space for the vapour barrier on the inside, and on the outside a 10 mm deep air gap must be left to the weather strip or other rain seal. The gap that is left for ventilation and drainage must not be filled with sealant.

Insert mineral wool in the gap between the wall and frame.

Inside: If installed in an exterior wall, seal inside with joint mastic (diffusion barrier).

Outside: An air gap at least 10 mm deep must be left for ventilation behind the lining or cover strip. Alternatively, instead of a lining or cover strip, a permeable sealing tape (such as Illmod or the like) can be fitted between the frame and wall.

Fig. 20:

$t_{min.} = 0.5 \times w$

t = joint thickness

w = joint width

Inside: Bottom seal and joint mastic

Outside: Sealing tape or cover strip/lining and air gap

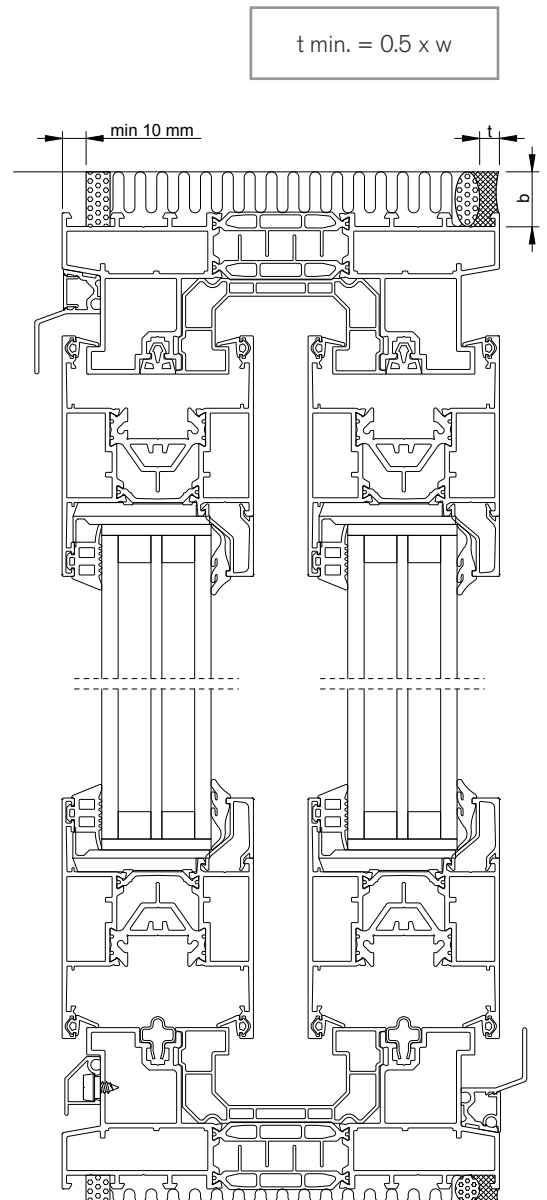


Fig. 20.

Final inspection

Check

- that the tilt-and-slide doors run smoothly and can be closed and locked easily.
- that the lock works and operates smoothly.
- that all hardware and locks are fixed securely.
- that gasket fits closely at the corners.
- that drainage and ventilation holes for glazing units are not blocked.
- that rubber closing seals are clean and undamaged.
- that any markings and protective tape have been removed.
- that the workplace is clean and tidy when the work is complete.

sapa:

By  **Hydro**

Hydro Building Systems, Region North

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