Summary of Installation Methods for Plastic Windows in a Building with Installation Instructions

1. The instructions specifically focus on the selection of materials for installation and methods of connection to the building structure.

Figure 01:
Distances between anchoring points for plastic profiles
- White acrylic film-coated
- Dimensions for window case interior angles

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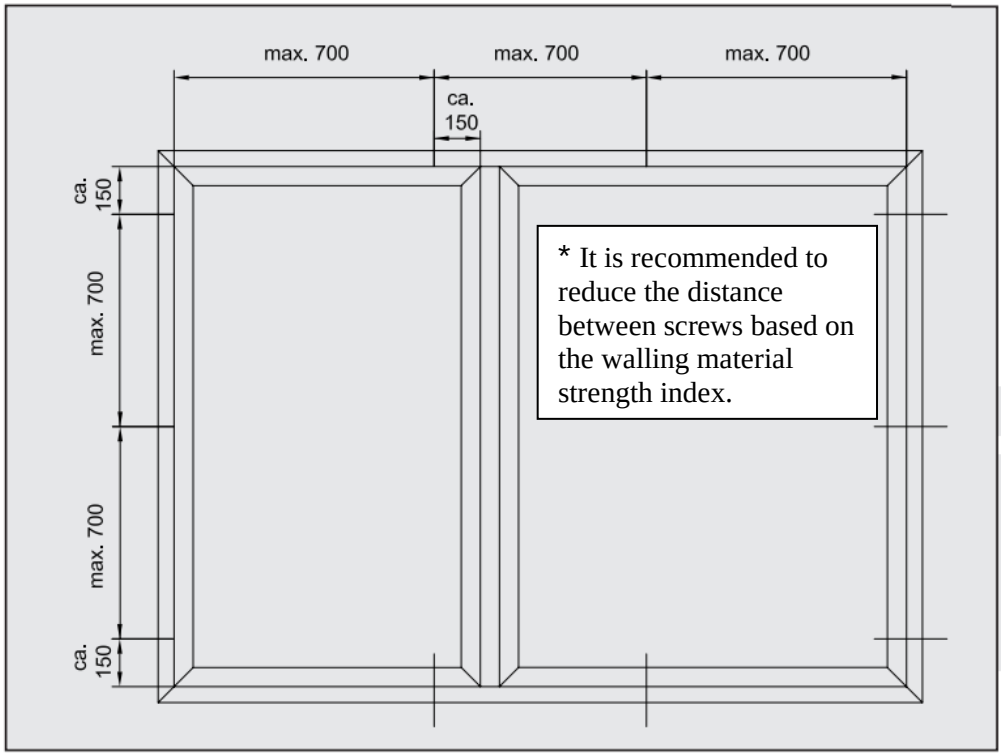
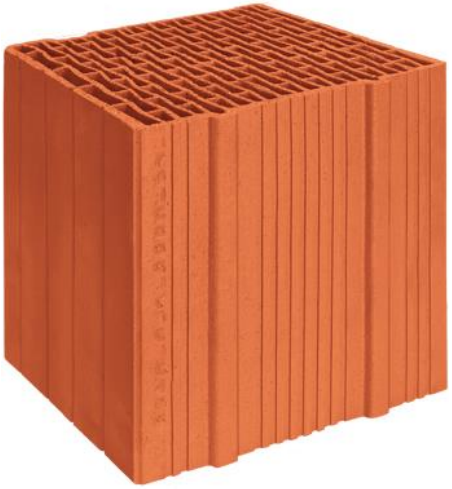


max. 700	*max. 700*
ca. 150	*approx. 150*

2. However, the emphasis is upon mounting/installation **in** the wall aperture, and in this case, in particular, including meshed brick, i.e. unfired hollow brick of various designs.

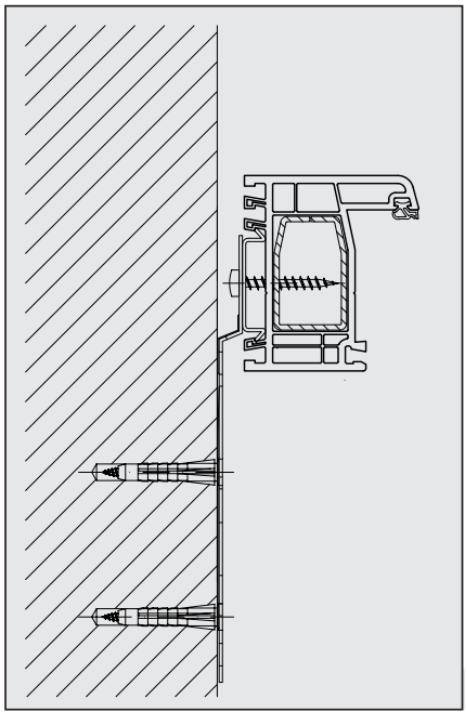
Figure 02:
Meshed brick wall aperture



Before the installation please note that hollow brick is used!

3. The same selection rule for fasteners applies to WDF suspended facades.
In this case, mounting anchors approved by building supervision authorities should be used, which must be rigidly case fixed on the inside.

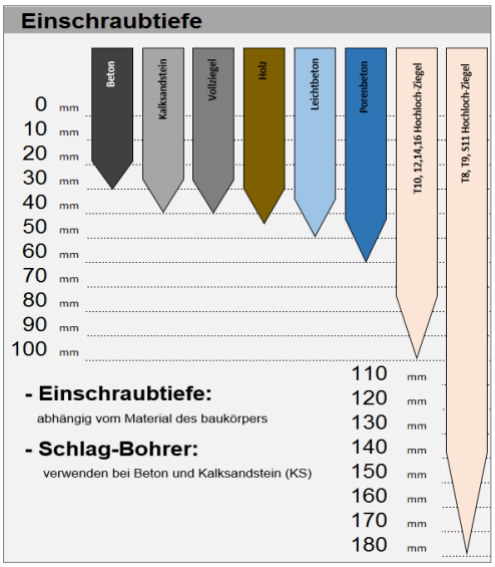
Figure 03:
Wall anchor

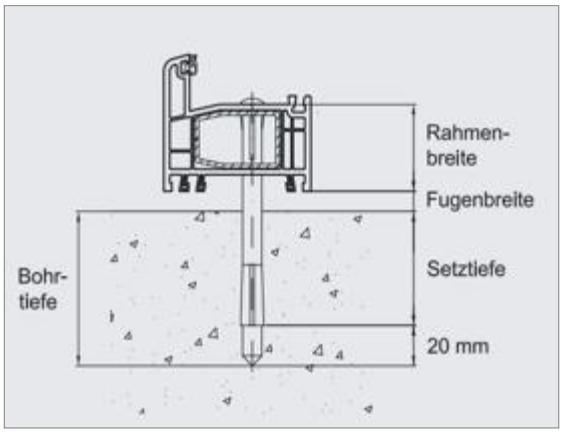


4. When installing the case in the hollow brick, preference should be given to tubular sheet metal or plastic expansion anchors.
For the self-tapping screws pre-drilling with a significantly smaller diameter is **required** (the screw manufacturer's instructions must be observed).

Figure 04:
Metal anchor for case fixing

Figure 05:
Anchor for case fixing
The screw manufacturer's instructions must be strictly observed (case fixing anchors)!

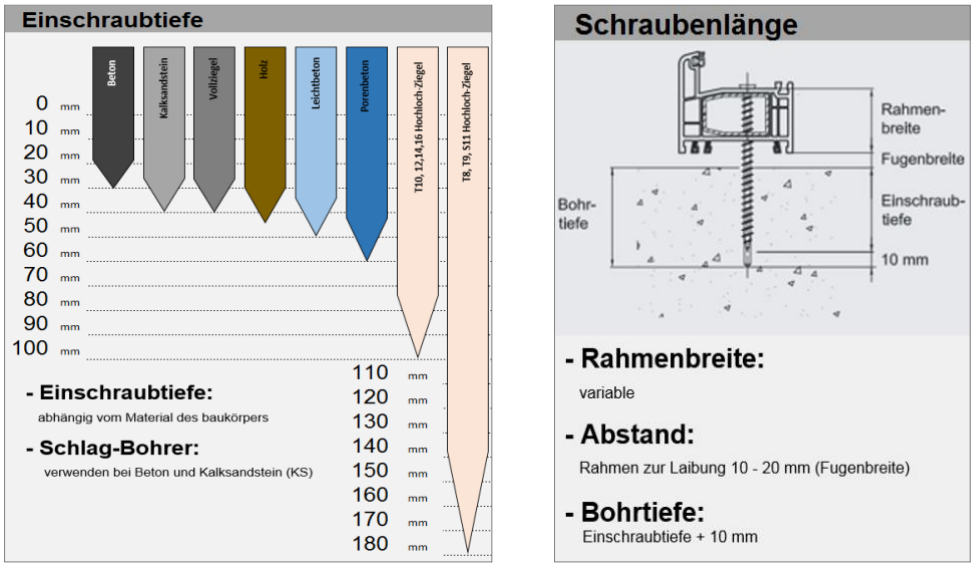




Beton	*Concrete*
Kalksandstein	*Lime-and-sand brick*
Vollziegel	*Solid brick*
Holz	*Timber*
Leichtbeton	*Light concrete*
Porenbeton	*Aerated concrete*
T10, 12, 14, 16 Hochloch-Ziegel	*T10, 12, 14, 16 Hollow brick*
T8, T9, S11 Hochloch-Ziegel	*T8, T9, S11 Hollow brick*
mm	*mm*
Einschraubtiefe: *abhängig von Material des baukörpers*	*Depth of engagement:* *based on the building structure material*
Schlag-Bohrer: *verwenden bei Beton und Kalksandstein (KS)*	*Pneumatic hammer:* *used for concrete and lime-and-sand brick (LSB)*
Rahmenbreite	*Sectional width of case*
Fugenbreite	*Seam thickness*
Bohrtiefe	*Hole depth*
Setztiefe	*Set-down depth*

5. In all cases, required screw length and hole depth must be observed.
Do not drive self-tapping screws into the wall without pre-drilling (with or without a “tap”). If this happens inadvertently or deliberately, be sure to replace with a larger diameter screw.

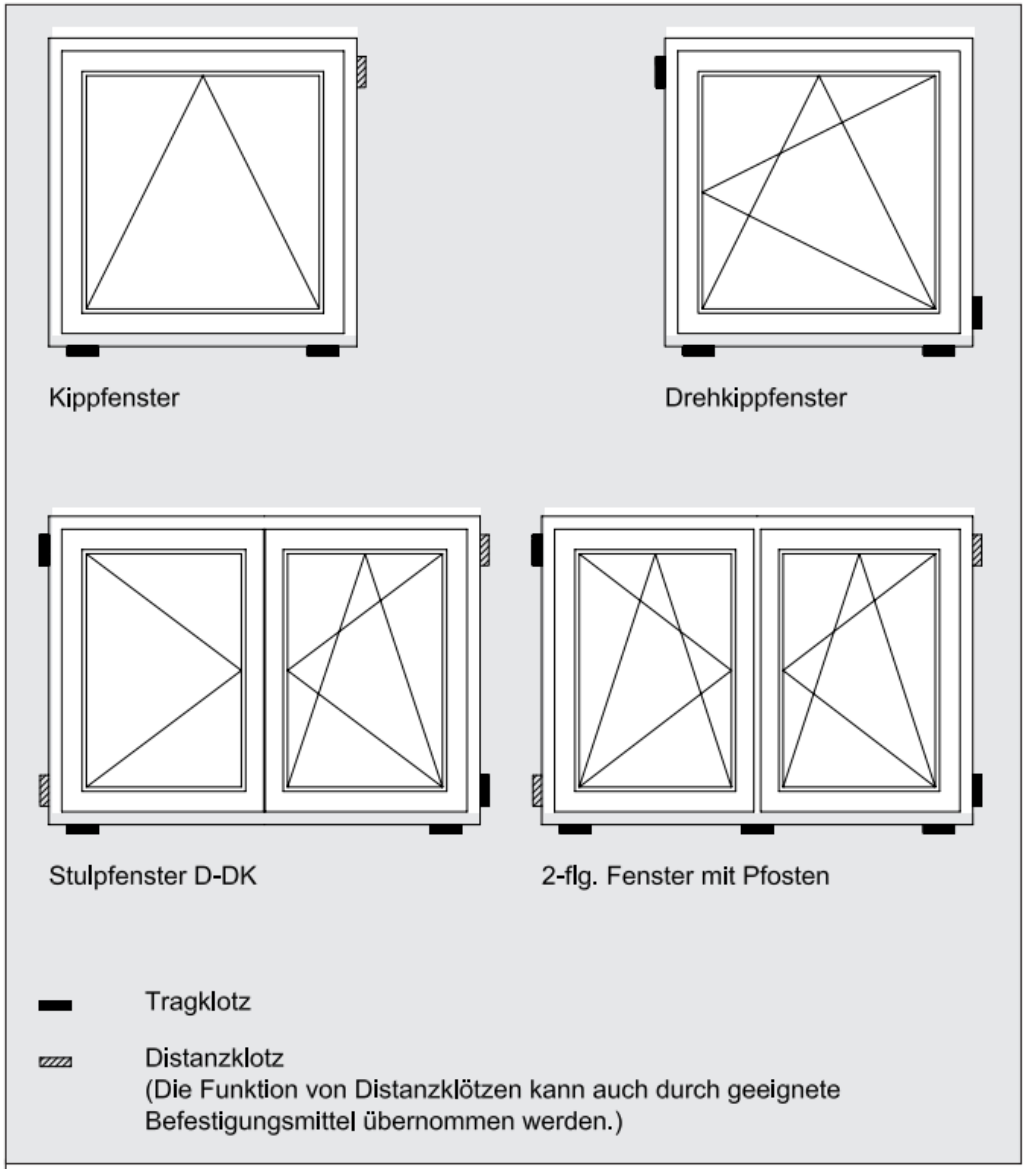
Figure 06:
Depth of engagement
The manufacturer’s instructions must be strictly observed (self-tapping screws)!



Beton	*Concrete*
Kalksandstein	*Lime-and-sand brick*
Vollziegel	*Solid brick*
Holz	*Timber*
Leichtbeton	*Light concrete*
Porenbeton	*Aerated concrete*
T10, 12, 14, 16 Hochloch-Ziegel	*T10, 12, 14, 16 Hollow brick*
T8, T9, S11 Hochloch-Ziegel	*T8, T9, S11 Hollow brick*
mm	*mm*
Einschraubtiefe	*Depth of engagement*
Schraublänge	*Screw length*
Rahmenbreite	*Sectional width of case*
Fugenbreite	*Seam thickness*
Bohrtiefe	*Hole depth*

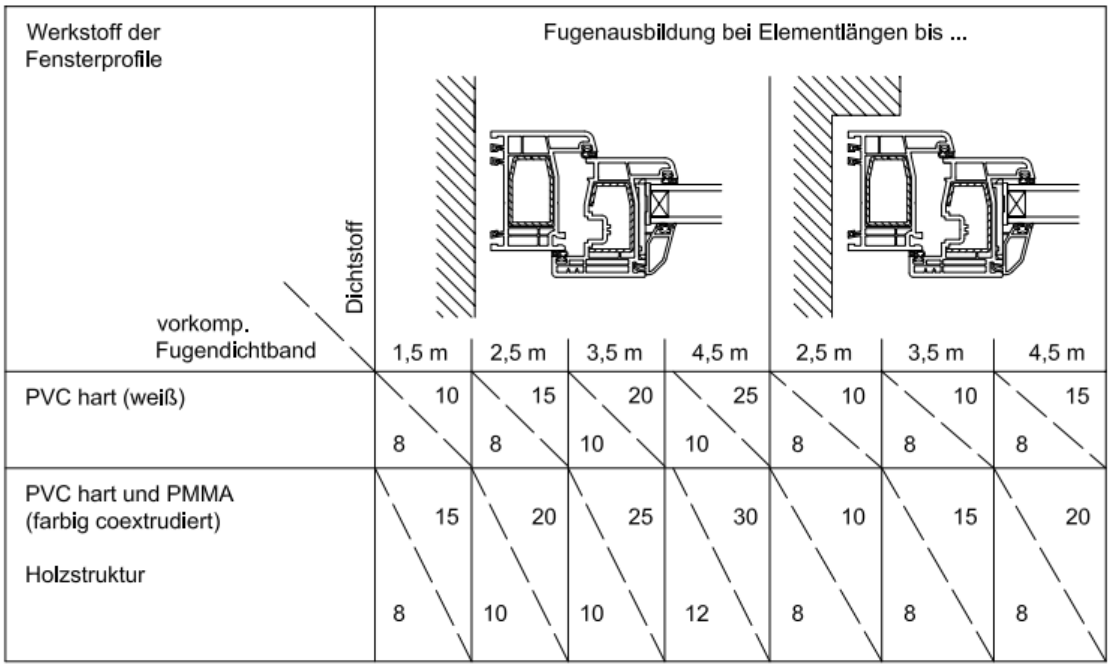
6. General guidelines

Figure 07:
Positioning of load-bearing and spacer frames



Kippfenster	*Bottom-hinged sash window*
Drehkippfenster	*Turn and tilt (universal) sash window*

Figure 08:
Minimum seam thickness

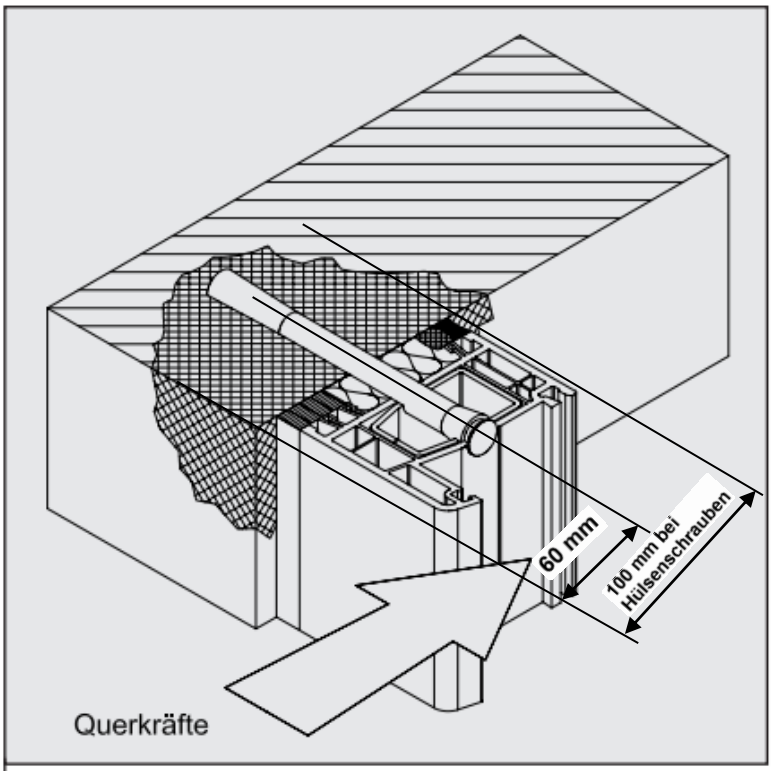


Temperaturbedingte Längenänderungen der Profile:

PVC hart (weiß): 1,6 mm/m
PVC hart und PMMA (farbig): 2,4 mm/m

Werkstoff der Fensterprofile	*Window profile material*
Fugenausbildung bei Elementlängen bis ...	*Formation of seams for element length of up to ...*
Dichtstoff	*Sealant*
vorkomp.[vorkomprimiertes] Fugendichtband	*Pre-compressed sealing tape*
m	*m*
PVC hart (weiß)	*Rigid polyvinylchloride (PVC) (white)*
PVC hart und PMMA (farbig coextrudiert)	*Rigid PVC and polymethylmethacrylate (PMMA) (coloured, co-extruded)*
Holzstruktur	*Wooden structure*
Temperaturbedingte Längenänderungen der Profile:	*Change in profile length based on temperature:*
PVC hart und PMMA (farbig)	*Rigid PVC and polymethylmethacrylate (PMMA) (coloured)*
mm/m	*mm/m*

Figure 09:
Observe the minimum distance to the wall.
Broken concrete/brick with too small distances from the edge.



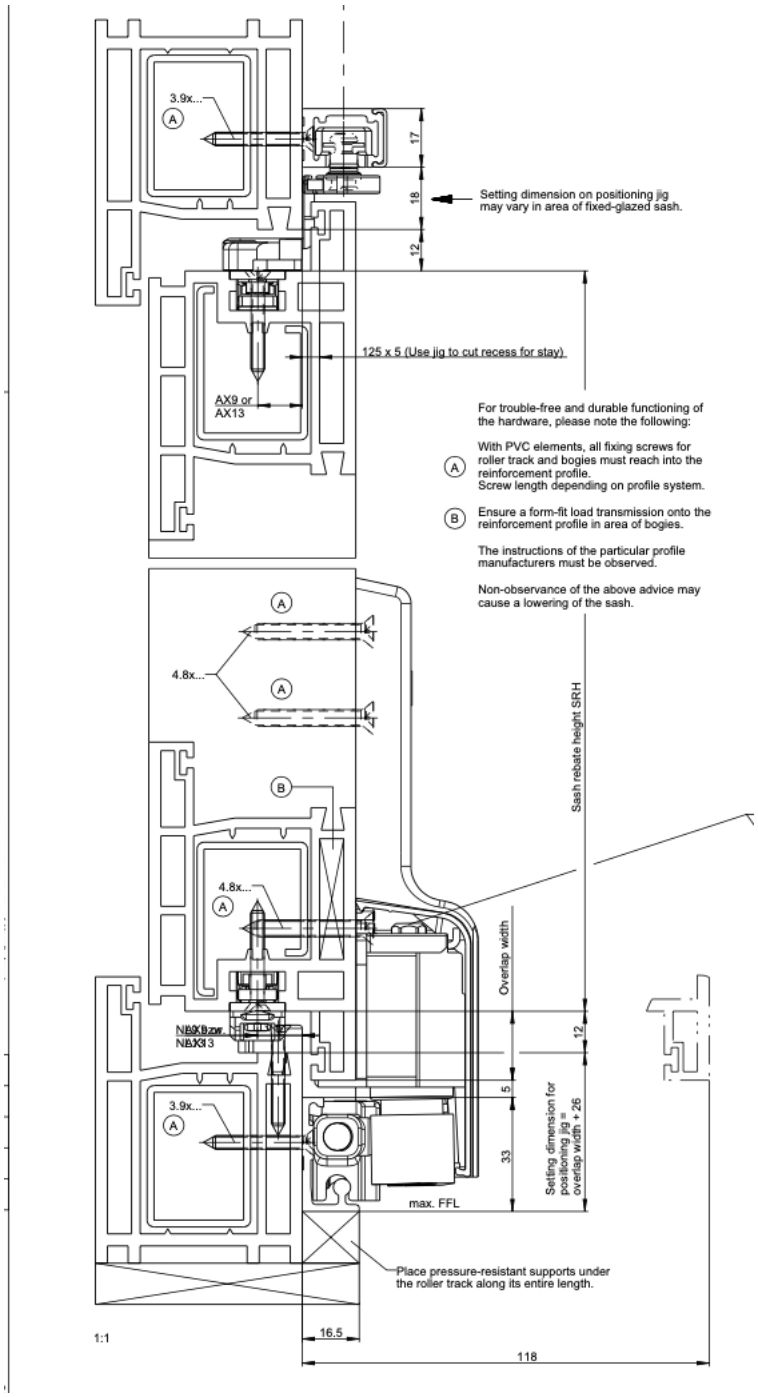
Querkräfte	*Transverse forces*
60 mm	*60 mm*
100 mm bei Hülsenschrauben	*100 mm for screws*

7. Additional installation instructions for PSK and FS sliding doors.

These doors have rails installed at the bottom, which are at a different level from the lower frame. These rails bear the entire weight of the door panels, especially when open. Therefore, the rails must rest on a rigid, stable surface, just like the frame. Sliding doors must be securely anchored to walls with anchor bolts. See the attached drawings.

Note: Technical translations might have variations based on the specific terminology used in the industry or the region. Always consult with an industry expert for precise translations. **Figure 10, Figure 11.**

Figure 10. (PSK)



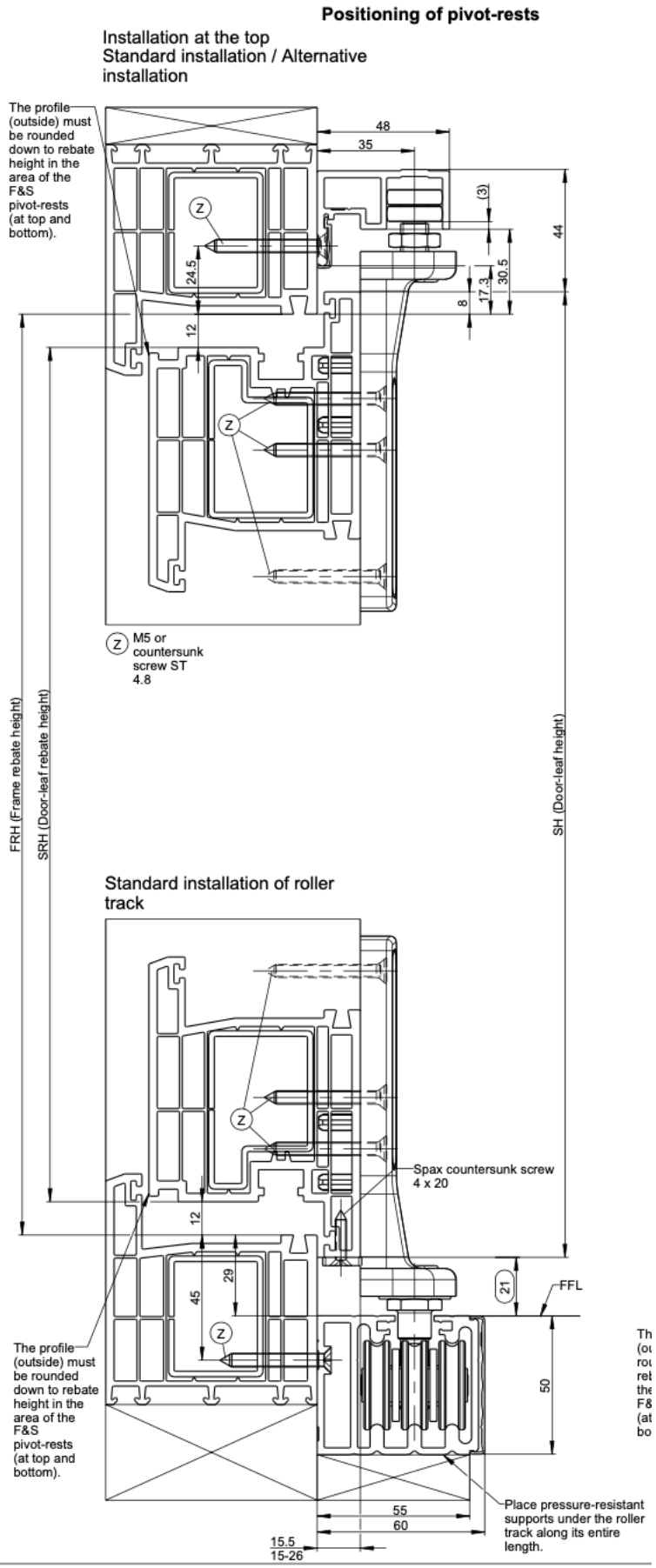

Positioning of pivot-rests
Installation at the top
Standard installation / Alternative installation
The profile (outside) must be rounded down to rebate height in the area of the F&S pivot-rests (at top and bottom).
48
35
(3)
44
24.5
30.5
17.3
8
12
Z
M5 or countersunk screw ST 4.8
FRH (Frame rebate height)
SRH (Door-leaf rebate height)
SH (Door-leaf height)
Standard installation of roller track
Spax countersunk screw 4 x 20
21
FFL
29
45
50
55
60
15.5
15-26
Place pressure-resistant supports under the roller track along its entire length.

Figure 11. (FS)

8. 

These guidelines serve as important backup information to avoid errors of principle during installation.

9. 

As a window maker ARUTECH bears no liability for installation works by the customer.
ARUTECH bears no liability for damage to windows on site.