

## Single Leaf EI<sub>230</sub> / T30 Fire Retardant Transformer Station Door

acc. to DIN EN 62271-202 (VDE 0671-202) or DIN EN 61936-1 (VDE 0101-1)  
or acc. to EltBauVO for operating rooms for electrical systems

<b>Fire Protection</b>	<b>EI<sub>230</sub> / T30</b>	<b>tested acc. to EN 1634-1</b>
<b>Smoke Control (optional)</b>	<b>S<sub>a</sub>, S<sub>200</sub> / RS</b>	<b>tested acc. to EN 1634-3</b>
<b>Self-Closing (optional)</b>	<b>up to C5</b>	<b>tested acc. to EN 1191</b>

**Certified in accordance with DIN EN 16034 / 14351-1 / 13241**  
**General Building Approval as T30-1 (-RS) -FSA acc. to DIN 4102-5 / DIN 18095**

### Optional Audited Additional Functions

- Sound Insulation	up to 54 dB	tested acc. to EN ISO 10140-2
- Burglar Protection	RC2/RC3/RC4/RC5	tested acc. to EN 1627
- Air Tight	up to Klasse 4	tested acc. to EN 1026
- Blast Resistance	up to 20 kPa	tested acc. to EN 13124-1
- Explosion Protection	up to zone 1/21	acc. to EN 1127-1 or ATEX 2014/34/EU
- Protection Class	IP23D / IP44	tested acc. to DIN EN 60529
- Stainless Steel		

### Range of Dimension

**Range of Dimension for Doors**      Width from 625 mm to 1500 mm  
Height from 1750 mm to 3000 mm

**Range of Dimension for Hatches**      Width from 500 mm to 750 mm  
Height from 500 mm to 1750 mm

### Technical Specification and Tender Text

<b>Product:</b>	<b>EI<sub>230</sub> / T30 single leaf fire retardant transformer station door brand Buchele acc. to DIN EN 62271-202 (VDE 0671-202) and tested acc. to EN 1634-1</b>
<b>Door Type:</b>	<b>PLANE Line PL 301 (Trafo) BASIC</b>
<b>Structural Opening:</b>	<b>.... x .... mm</b>
<b>Door Leaf:</b>	Double-walled, planar 70 mm thick steel door without hinge embossing, three sides rebated with thick rebate. Without bottom stop. Non-flammable special insulating inserts fully laid-in and glued. Securing pin screwed in door leaf rebate.
<b>Threshold:</b>	Floor bracket as separation sill. Surface galvanized and welded to the frame.
<b>Frame:</b>	3-sided circumferential rebated corner frame with visible black coated intumescent material in rebate. High-quality multi chamber sealing profile adjustable fixed in the three-sided groove.
<b>Hinges:</b>	Three-part, height adjustable construction hinges with hinge pin retention and ball bearing spacer ring for smooth door movement.

<b>Door Closer:</b>	Door closer system with standard arm acc. to EN 1154 silver coloured mounted on hinge side.
<b>Fitting:</b>	Mortise lock with latch lever function acc. to EN 12209 (prepared for installation of a profile cylinder lock, provided by customer). Door handle set in acc. to EN 1906 fixed pivoted stainless steel in U-shape with rounded short-plate.
<b>Grounding:</b>	Grounding connection between door leaf and frame. Separate threaded opening in the frame for connection to the customer's grounding circuit.
<b>Surface:</b>	Door leaf and frame galvanized und primed with 2K-PUR primer (Very High Solid) similar RAL 7035.
<b>Installation:</b>	masonry $\geq 115$ mm concrete $\geq 100$ mm areated concrete $\geq 200$ mm mounting wall F60 $\geq 125$ mm

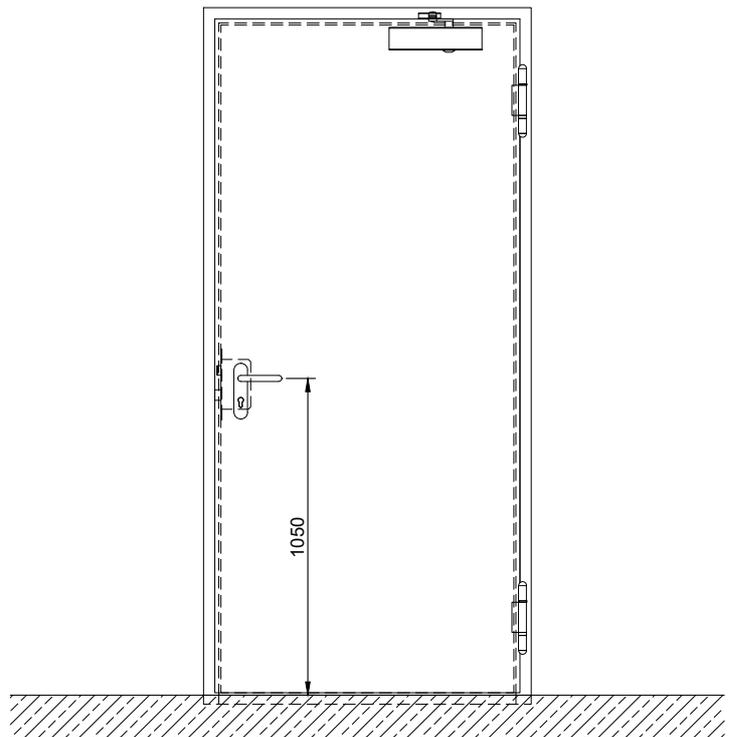
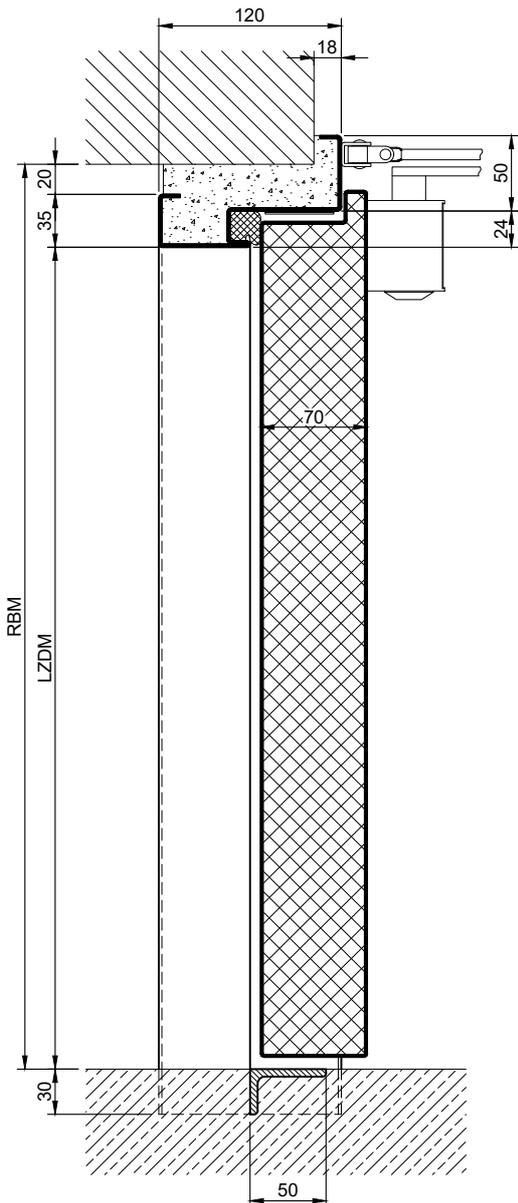
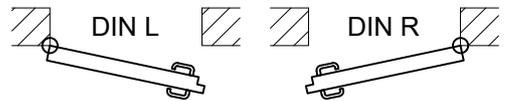
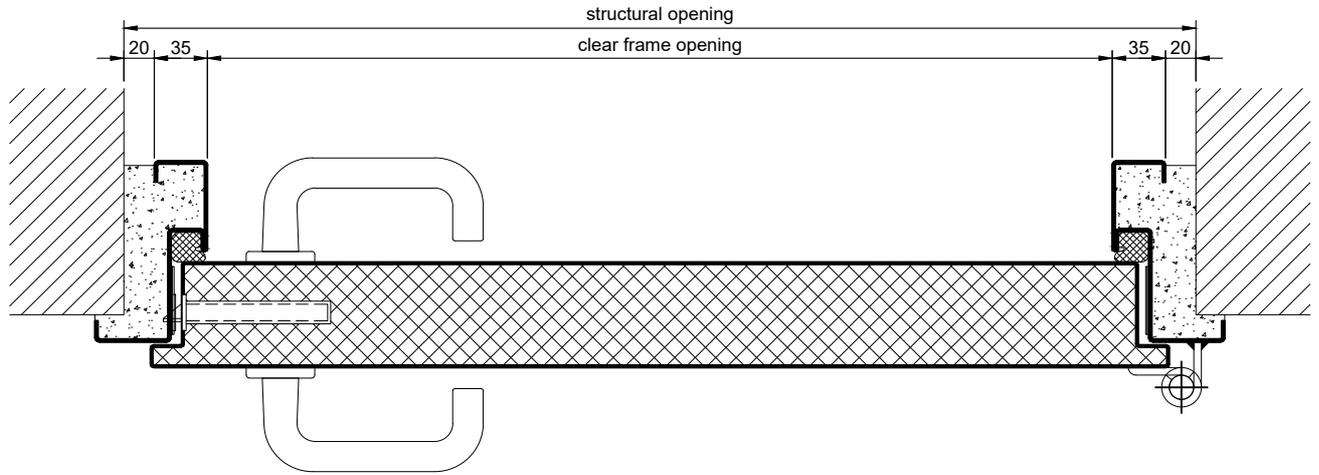
### Alternative: PLANE Line PL 301 PREMIUM with flush mounted optics

<b>Frame:</b>	3-sided circumferential rebated PLANE Line special corner frame for flush mounted optics on hinge side. With visible, black coated intumescent material in rebate. High-quality multi-chamber sealing profile adjustable fixed in the three-sided groove.
<b>Hinges:</b>	Object hinges type VB-3D 160 adjustable in three dimensions. Fixture element with slide bearings inside for smooth door movement.
<b>Door Closer:</b>	Slide rail door closer system acc. to EN 1154 silver coloured mounted on hinge side.

### Alternative: PLANE Line PL 301 SUPERIOR with flush mounted optics

<b>Frame:</b>	3-sided circumferential rebated PLANE Line special corner frame for flush mounted optics on hinge side. With visible, black coated intumescent material in rebate. High-quality multi-chamber sealing profile adjustable fixed in the three-sided groove.
<b>Hinges:</b>	Concealed hinge system adjustable in three dimensions.
<b>Door Closer:</b>	Concealed slide rail door closer system acc. to EN 1154 integrated in frame and door leaf.

### BASIC Version

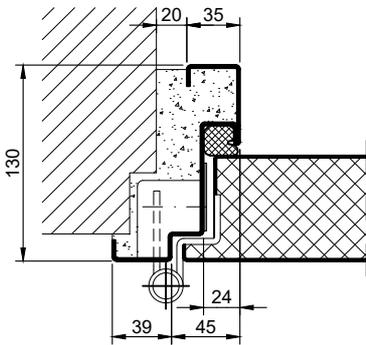


### Supplementary Equipment

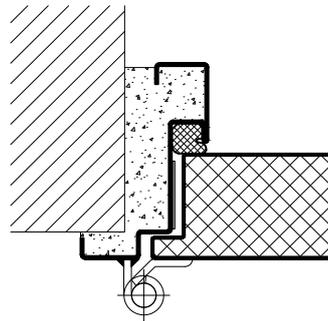
<b>Standard Glazing:</b>	F30 fire-protective glazing fixed with profiled and visible screwed steel glazing bars. Minimum border 125 mm on side and top, base 300 mm.
<b>Flush Glazing:</b>	PLANE Line F30 special glazing flush mounted with outer edge of door leaf on hinge side and opposite hinge side. Edge enamelling and permanent elastic glazing joint in colour black RAL 9004. Minimum border 125 mm on side and top, base 300 mm.
<b>Double cylinder lock:</b>	Lock with two profile cylinder punches acc. to DIN EN 12209 (prepared for installation of two profile cylinders, provided by customer)
<b>Stainless Steel:</b>	Material 1.4301 (V2A) or 1.4404 (V4A), Surface mill finish or brushed.
<b>BUCHELE DELUXE:</b>	The exclusive surface coating.

### PREMIUM Version

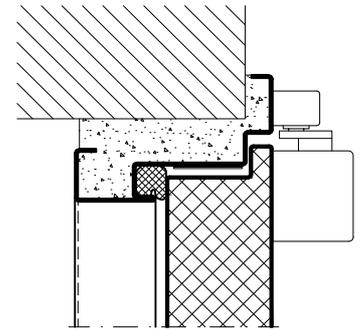
object hinges VB-3D



construction hinges

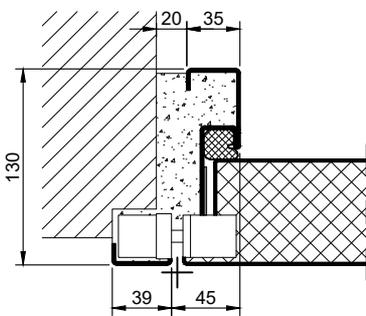


slide rail door closer

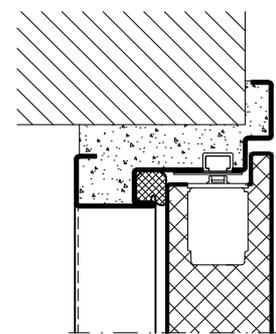


### SUPERIOR Version

concealed hinges

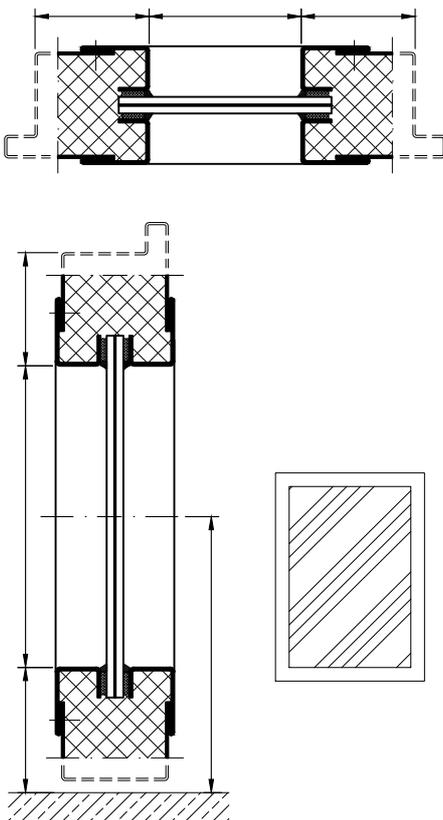


integrated door closer

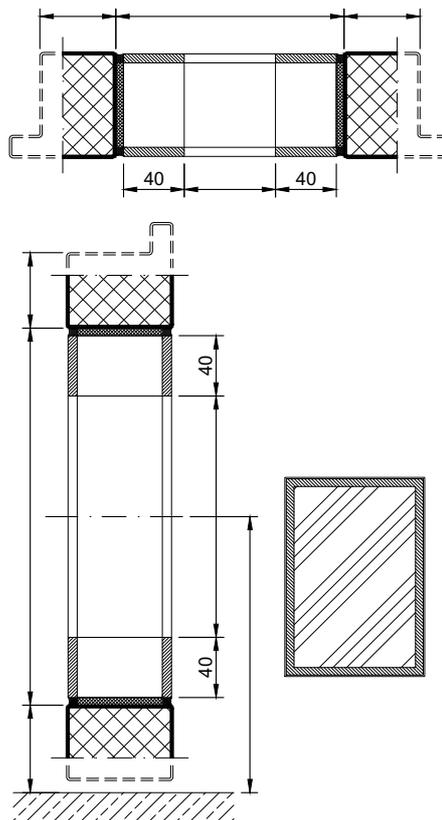


### Options

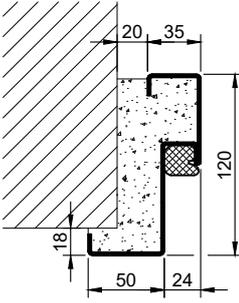
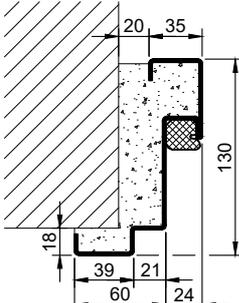
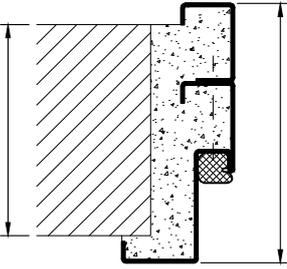
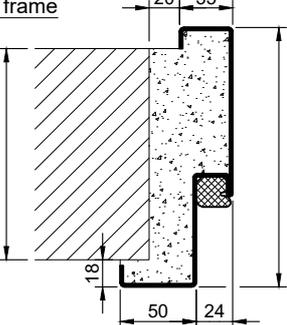
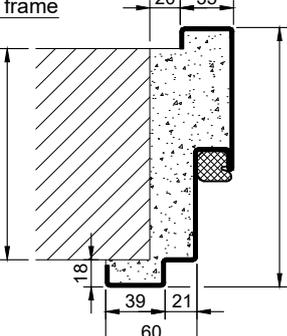
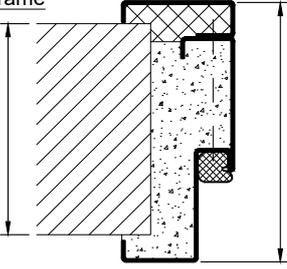
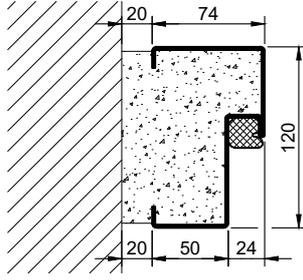
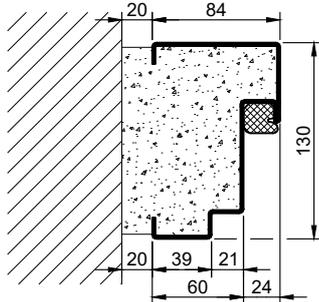
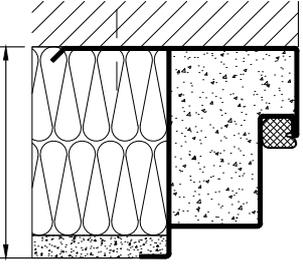
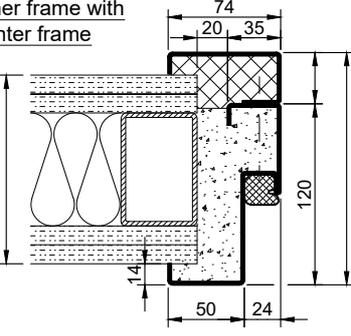
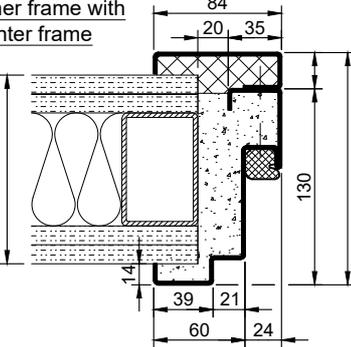
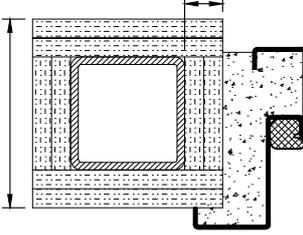
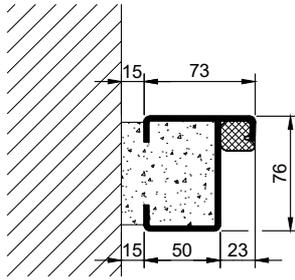
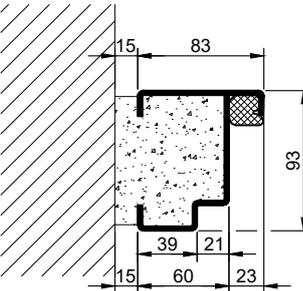
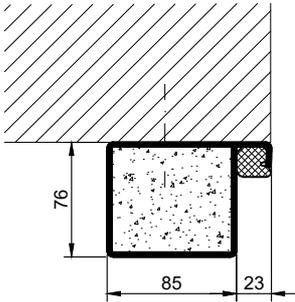
glazing



flush glazing



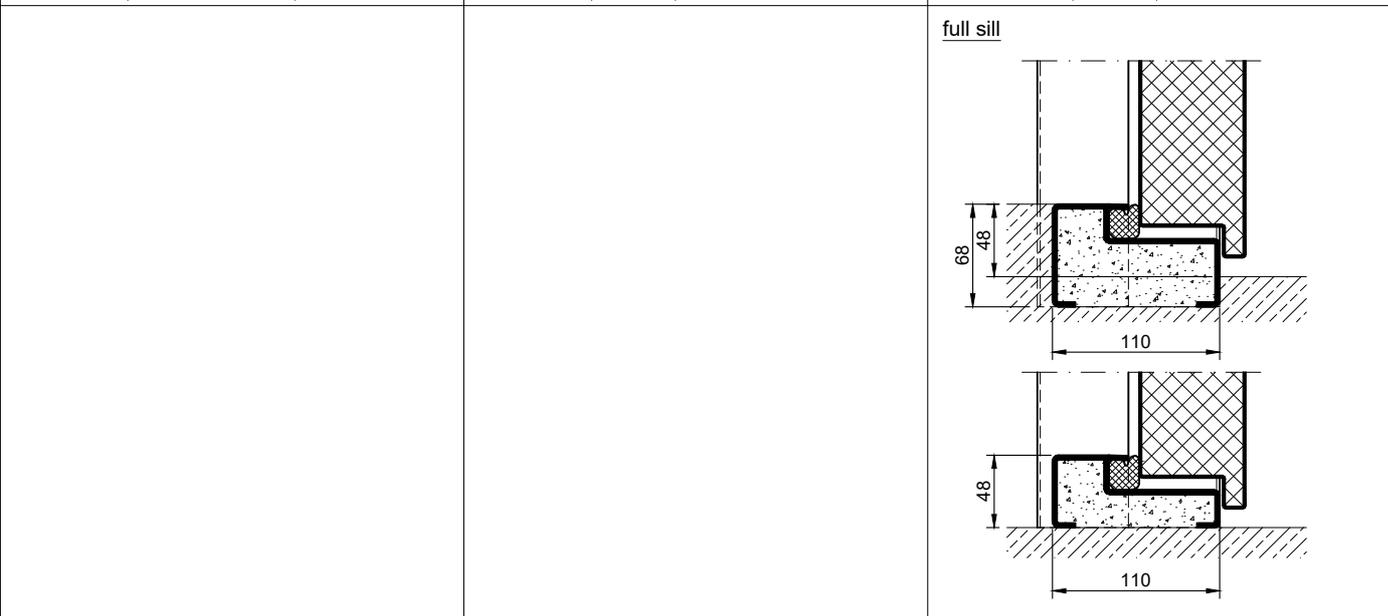
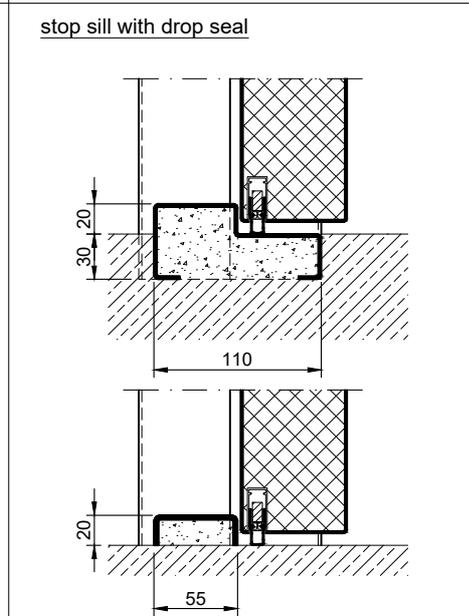
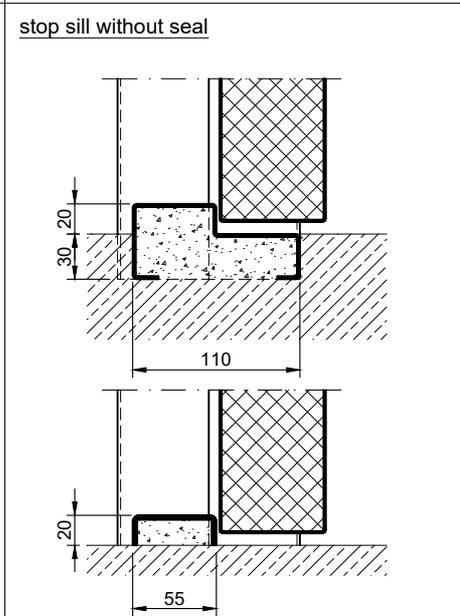
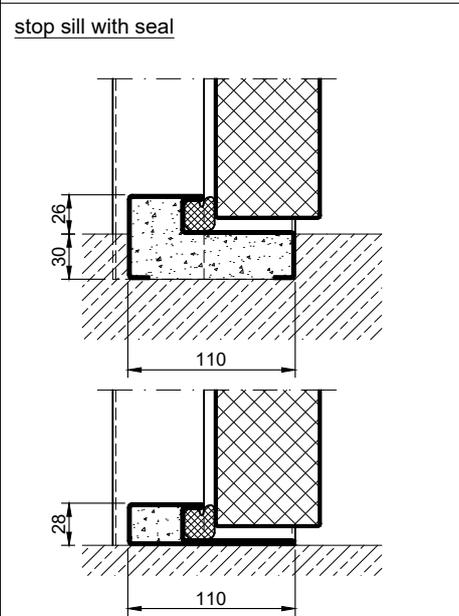
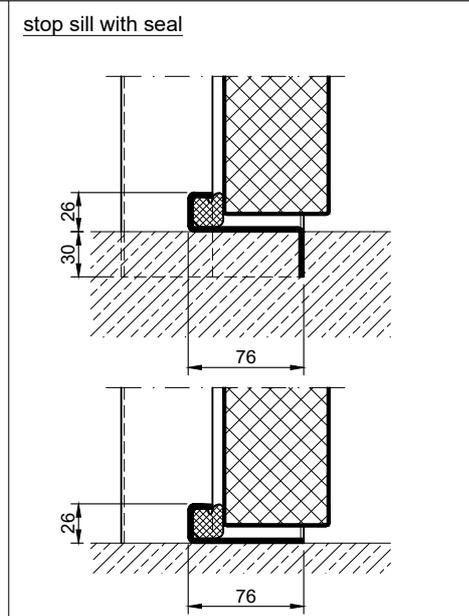
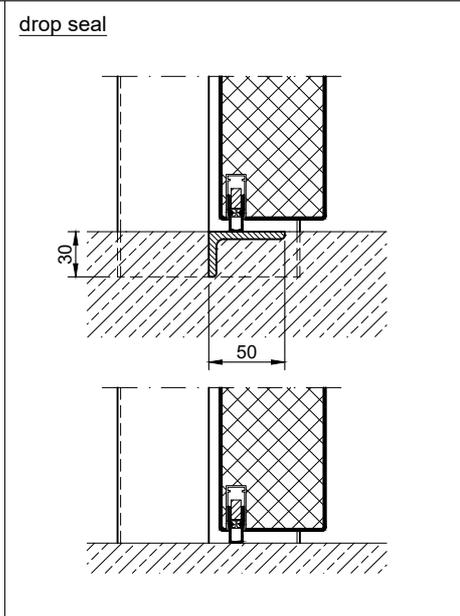
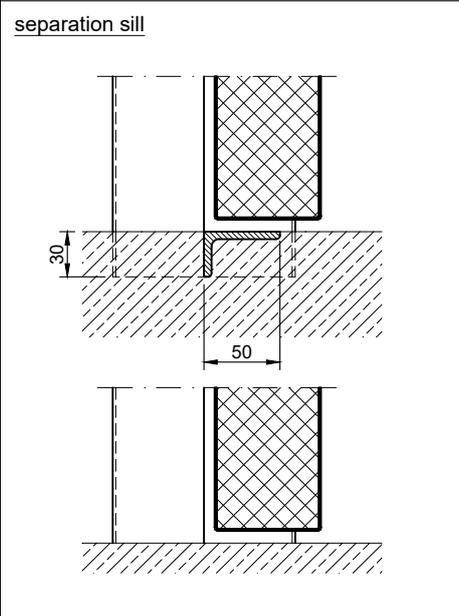
9.0.2\_PLANE LINE PL 301 TRAF0\_EN

Frames BASIC	Frames PREMIUM/SUPERIOR	Variants (illustration BASIC)
<p>corner frame</p> 	<p>corner frame</p> 	<p>corner frame with additional frame</p> 
<p>encasing frame</p> 	<p>encasing frame</p> 	<p>encasing frame with counter frame</p> 
<p>block frame</p> 	<p>block frame</p> 	<p>juttet block frame</p> 
<p>corner frame with counter frame</p> 	<p>corner frame with counter frame</p> 	<p>corner frame at support / pillar</p> 
<p>profile block frame</p> 	<p>profile block frame</p> 	<p>pre-wall frame</p> 

9.0.2\_PLANE LINE PL 301 TRAF0\_EN

technical modifications reserved - edition 07/2024

### Thresholds



9.0.2\_PLANE LINE PL 301 TRAF0\_EN

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