

### Double 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

|                                       |                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------|
| <b>Range of Dimension for Doors</b>   | <b>Width</b> from 1375 mm to 3000 mm<br><b>Height</b> from 1750 mm to 3000 mm |
| <b>Range of Dimension for Hatches</b> | <b>Width</b> from 1000 mm to 1375 mm<br><b>Height</b> from 500 mm to 1750 mm  |

### Technical Specification and Tender Text

|                            |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>            | <b>EI<sub>230</sub> / T30 double 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 302 (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.<br>Without bottom stop.<br>Non-flammable special insulating inserts fully laid-in and glued.<br>Passive leaf with multi-chamber sealing profile in the middle rebate.<br>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.<br>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>      | <b>Active leaf:</b> mortise lock with latch lever function acc. to EN 12209 (prepared for installation of a profile cylinder lock, provided by customer).<br>Door handle set in acc. to EN 1906 fixed pivoted stainless steel in U-shape with rounded short-plate.<br><b>Passive leaf</b> with concealed shoot-bolt lock, self-locking with upper switch lock. |          |
| <b>Grounding:</b>    | Grounding connection between door leaf and frame.<br>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                                                                                                                                                                                                                                                                                                                                                        | ≥ 115 mm |
|                      | concrete                                                                                                                                                                                                                                                                                                                                                       | ≥ 100 mm |
|                      | areated concrete                                                                                                                                                                                                                                                                                                                                               | ≥ 200 mm |
|                      | mounting wall F60                                                                                                                                                                                                                                                                                                                                              | ≥ 125 mm |

### Alternative: PLANE Line PL 302 PREMIUM with flush mounted optics

|                     |                                                                                                                                                                                                                                                                 |  |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Frame:</b>       | 3-sided circumferential rebated PLANE Line special corner frame for flush mounted optics on hinge side.<br>With visible, black coated intumescent material in rebate.<br>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.<br>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.                                                                                                                                                                            |  |

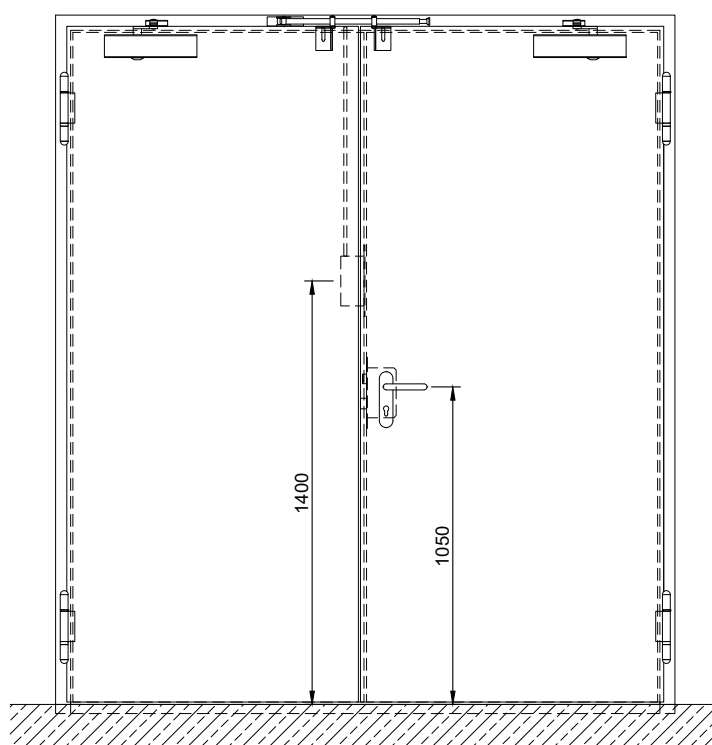
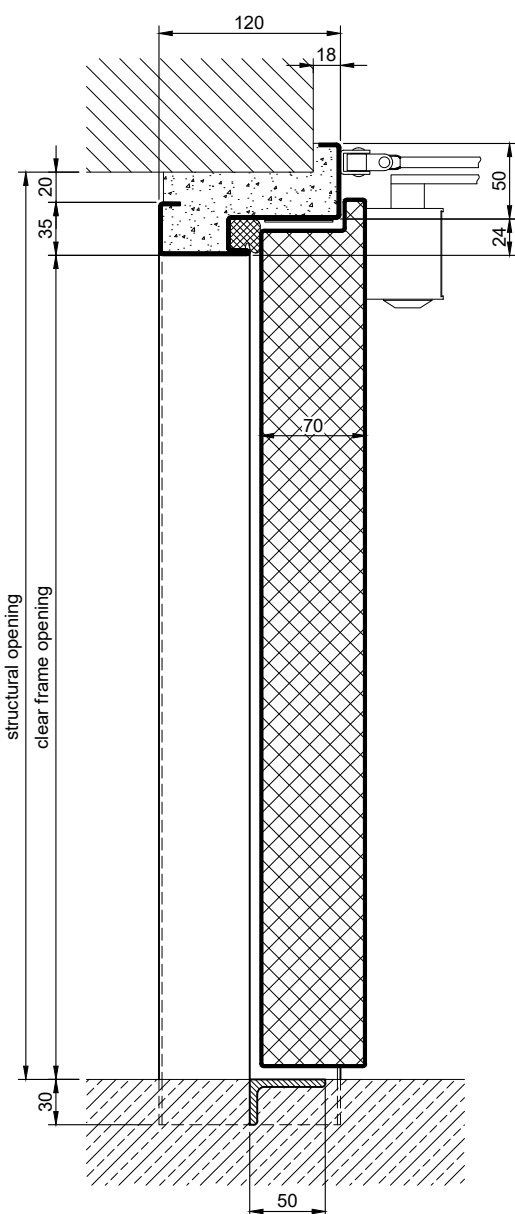
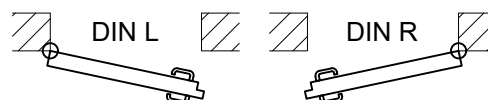
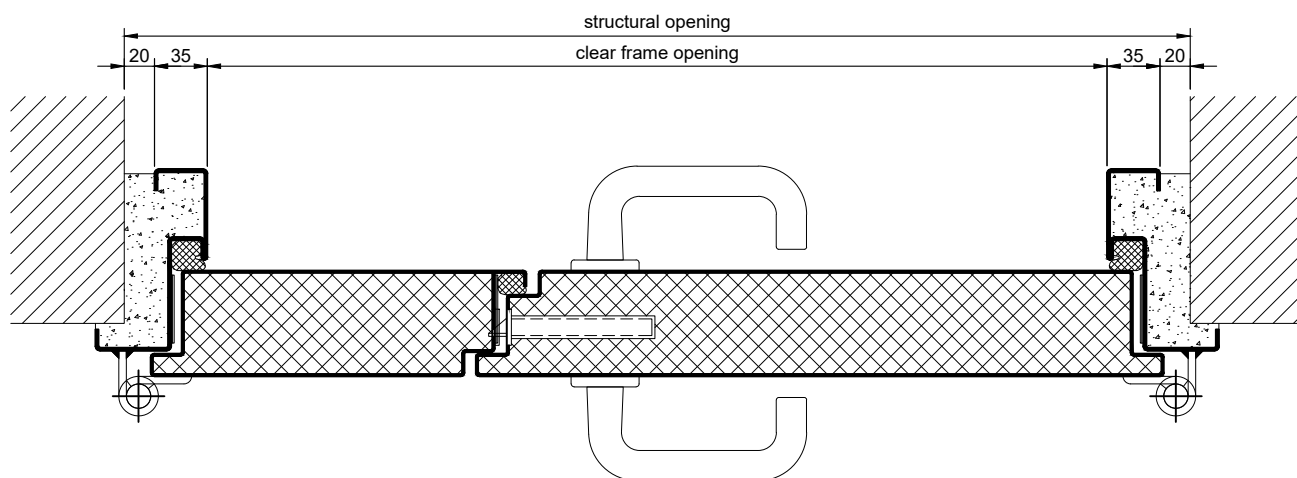
### Alternative: PLANE Line PL 302 SUPERIOR with flush mounted optics

|                     |                                                                                                                                                                                                                                                                 |  |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Frame:</b>       | 3-sided circumferential rebated PLANE Line special corner frame for flush mounted optics on hinge side.<br>With visible, black coated intumescent material in rebate.<br>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.                                                                                                                                                                      |  |

### Supplementary Equipment

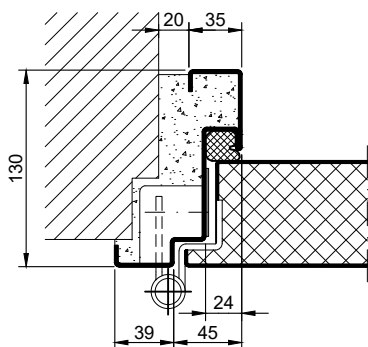
|                              |                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard Glazing:</b>     | F30 fire-protective glazing fixed with profiled and visible screwed steel glazing bars.<br>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.<br>Edge enamelling and permanent elastic glazing joint in colour black RAL 9004.<br>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<br>(prepared for installation of two profile cylinders, provided by customer)                                                                                                                |
| <b>Stainless Steel:</b>      | Material 1.4301 (V2A) or 1.4404 (V4A),<br>Surface mill finish or brushed.                                                                                                                                                                                |
| <b>BUCHELE DELUXE:</b>       | The exclusive surface coating.                                                                                                                                                                                                                           |

### BASIC Version

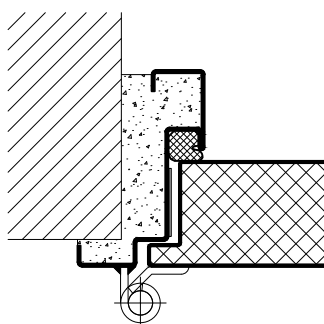


### PREMIUM Version

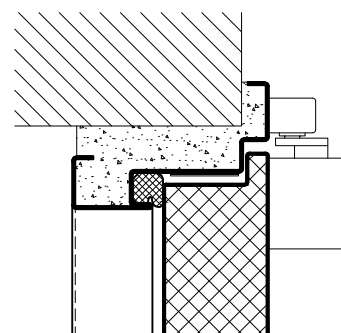
object hinges VB-3D



construction hinges

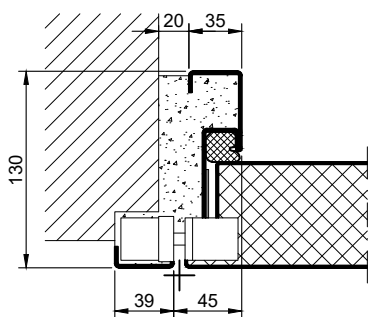


slide rail door closer

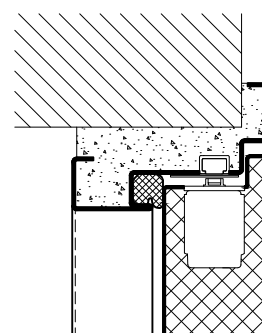


### SUPERIOR Version

concealed hinges

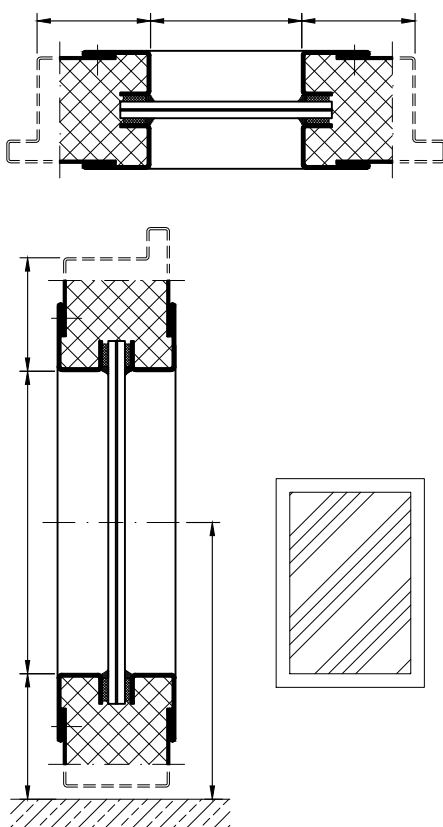


integrated door closer

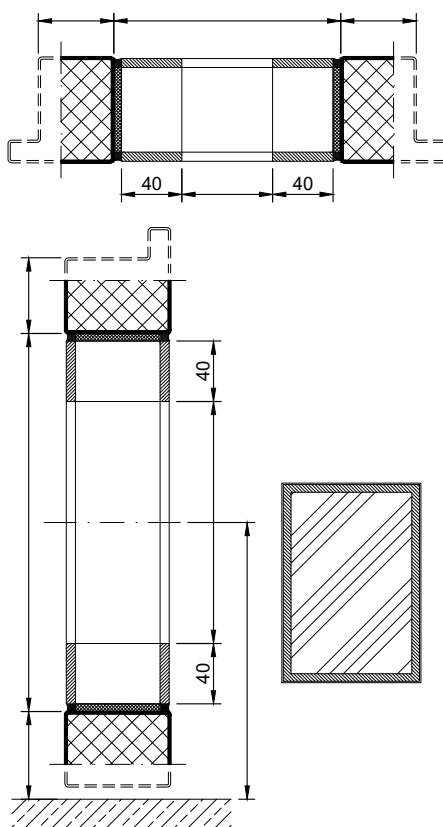


### Options

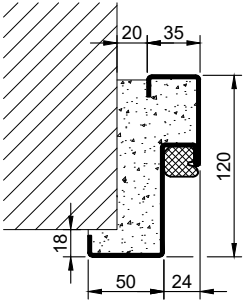
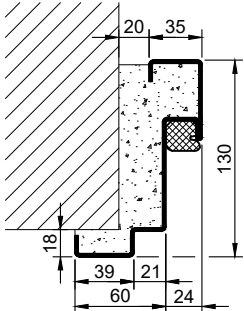
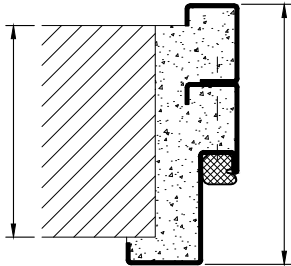
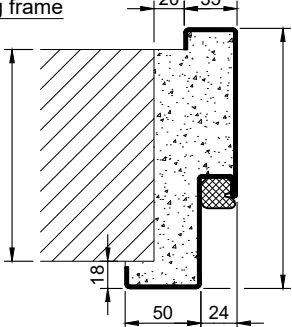
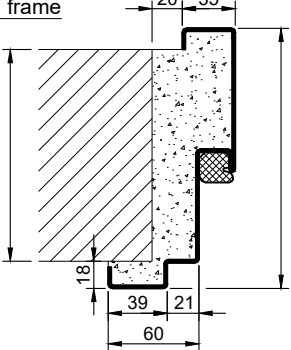
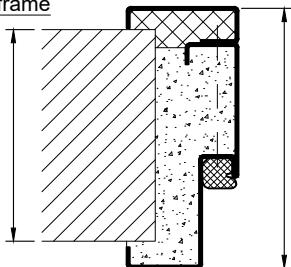
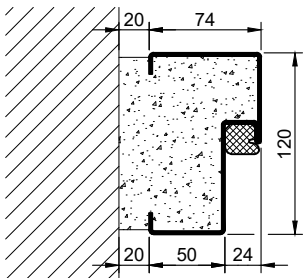
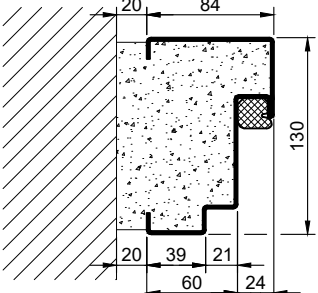
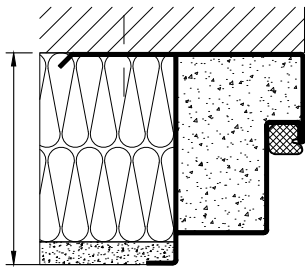
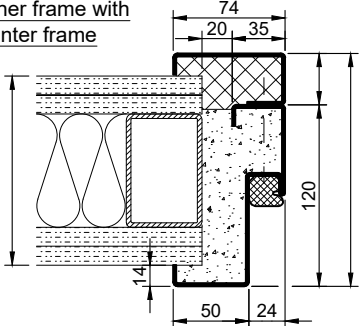
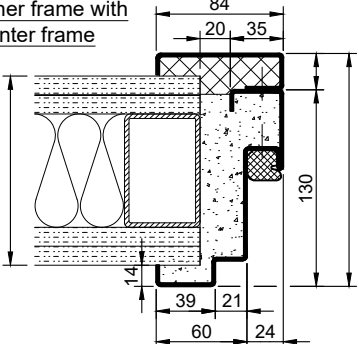
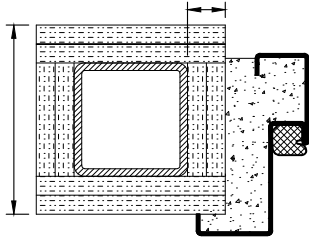
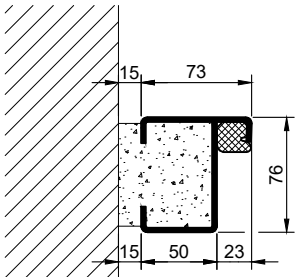
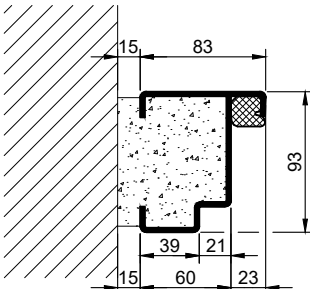
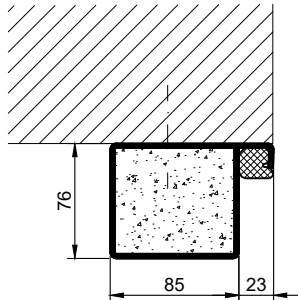
glazing



flush glazing

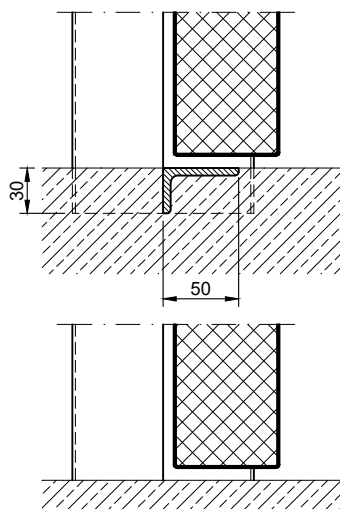


9.10.2 PLANE LINE PL 302 TRAFO\_EN

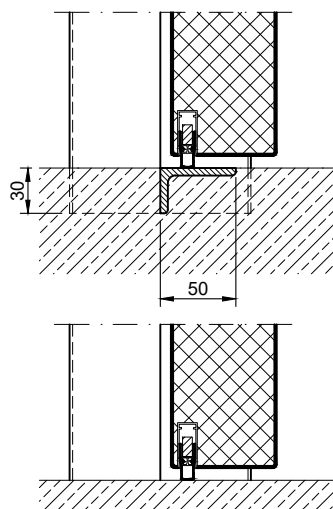
| Frames BASIC                                                                                                               | Frames PREMIUM/SUPERIOR                                                                                                     | Variants (illustration BASIC)                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <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>jutted 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>                    |

### Thresholds

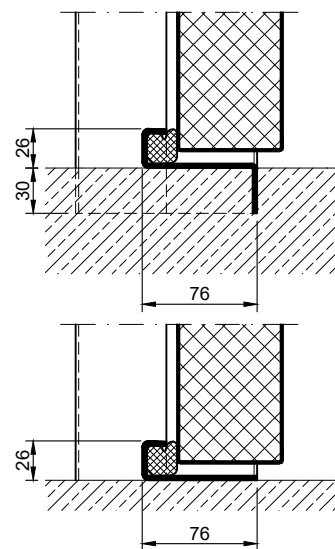
separation sill



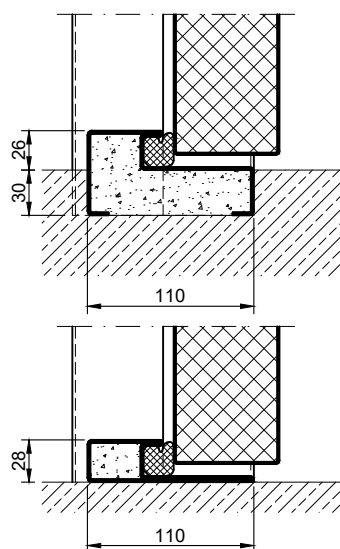
drop seal



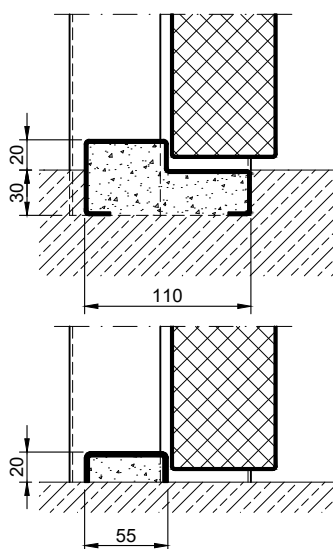
stop sill with seal



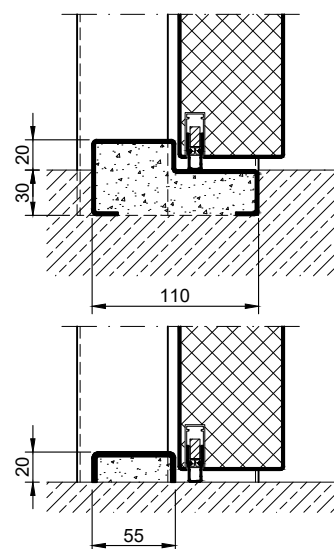
stop sill with seal



stop sill without seal



stop sill with drop seal



full sill

