



# Installation instructions **S-04** Steel box frame

EN

**For:**  
retrofitting

**substructure:**  
without

**mounted with:**  
dowels/screws

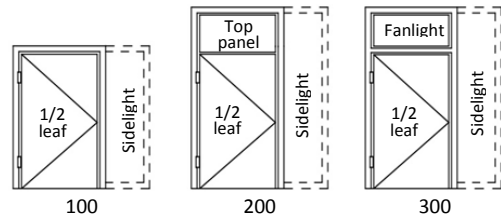
**requirements:**

- Fire protection T30, T90
- Burglar resistance
- Smoke protection
- Acoustic rating
- No requirements

**Adjacent structural elements:**

- Masonry walls
- Concrete walls
- Aerated concrete walls
- Flat filler block walls
- Partition walls
- Struts/beams

**Basic models:**



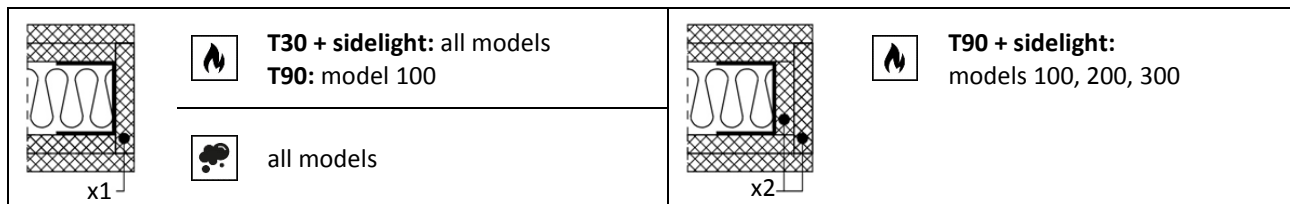
These installation instructions should only be used together with the main installation instructions for hinged doors. These instructions are regularly updated and made available on our website without further announcements. Any new version automatically replaces older versions.

- All dimensions are in millimetres (mm).
- Pictures and sketches are schematic. However, they show the construction accurately.
- As standard all closures are shown with/without requirements, in all adjacent structural elements, and identically as rounded panel and double rebate versions.
- For permitted walls and structural elements, please see the main installation instructions, section 3.

## 1 Partition walls

- Please refer to the main installation instructions, section 9.2. Use posts made of UA profiles or rectangular steel tubing. Cross-section in accordance with static requirements.
- The design must meet the minimum requirements of DIN EN 1627. For permitted partition walls, see the main installation instructions, section 9.3 and the assessment report 17-002123-PR01 and -PR02.

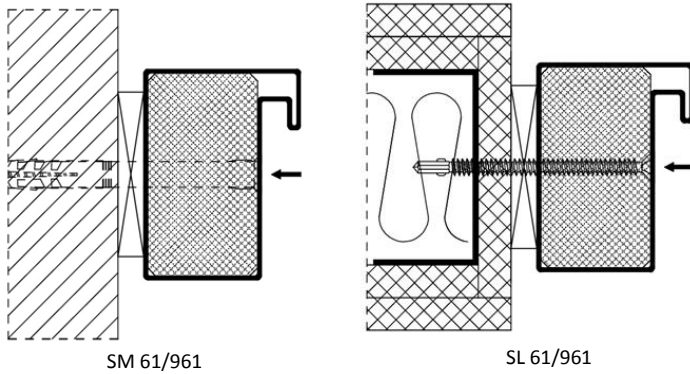
Basic models for soffit panelling:



## 2 Distanzverklotzung und Befestigung

- Before installing, check the dimensions, hardware and their seating/position of the frame.
- Check frame and hardware before installing acc. to planning details.
- Check the frame angles before installing.
- Check the frame type and the cutting check and decide whether the frame should be fitted with or without a floor recess.
- Assemble the frame parts acc. to frame type and HEBA chapter 12 and/or instruction manual.
- If available remove the transport rails from the frame before installing.
- Level the frame horizontally and vertically. Look after a uniform frame rebate dimension.

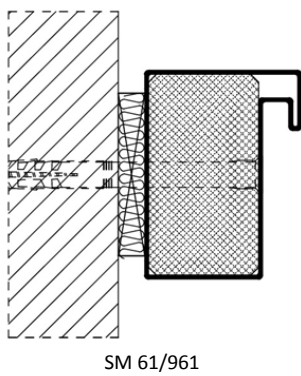
1. Insert the frame in the wall opening and align. Adjust the frame rebate dimension.
2. Insert spacer blocks (installation gap  $\leq 30$ , see the main installation instructions, section 7).
3. Fix the frame to the wall element using suitable fixings for solid or partition walls, see main installation instructions section 8.



<b>Material for spacer blocks:</b>	
	Wood/engineered wood
	<b>T30, Smoke protection, Burglar resistance class 2/3:</b> Wood/engineered wood, Bulk density $\geq 410 \text{ kg/m}^3$
	<b>T90 (with/without Smoke protection, Burglar resistance):</b> B1 wooden composite board, for example FRCW, B1-MDF or ROKU Fil PL 1200 or comparable

### 3 Filling

The frame cavities must be filled around its circumference depending on the requirement(s).



<b>No requirements Smoke protection Burglar resistance</b>	–
<b>Acoustic rating <math>\geq 1</math></b>	B not for T90 B/S
<b>T30 (+ Burglar resistance)</b>	B/S
<b>T90</b>	S

**Filling material:**

<b>B</b>	Fire protection, Smoke protection: Fire protection foam B1 e.g. Würth FZ plus No/other requirements: Installation foam B2
<b>S</b>	Fire protection, Smoke protection: Rock wool A1 (melting point 1000 °C) No/other requirements: Insulating material, e.g. mineral wool, glass wool

### 4 Application of mastic sealant

In accordance with the requirements for the hinge side and/or hinge opposite side, apply **silicone or acrylic** of building material class B2 in accordance with DIN 4102-1 or at least E-d2 in accordance with DIN EN 13501-1 around the frame.

● Apply sealant	No requirements, Burglar resistance, T30/T90 (+Burglar resistance)	Acoustic rating 1-2, T30/T90 with Smoke protection (+Burglar resistance)	Acoustic rating $\geq 3$ , Smoke protection
Hinge side	–	●	●
Hinge opposite side	–	–	●

