



Installation instructions

S-05

1-part steel corner frame

EN

For:
retrofitting

substructure:
without

mounted with:
flat irons

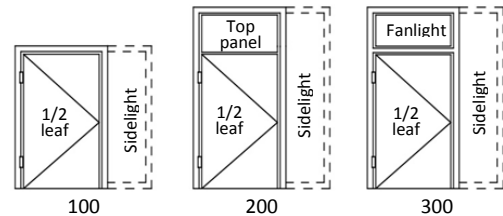
requirements:

- 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:



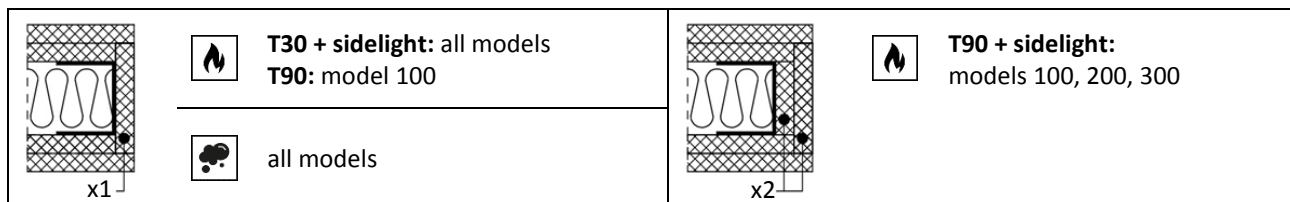
These installation instructions should only be used together with the main installation instructions for hinged doors. These instructions are regularly updated and made available on our website without further announcements. Any new version automatically replaces older versions.

- **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 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 frames before installing.
- Level the frame horizontally and vertically. Look after a uniform frame rebate dimension.

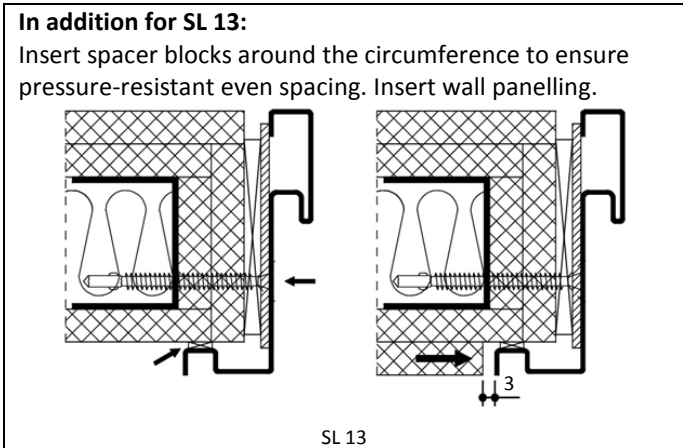
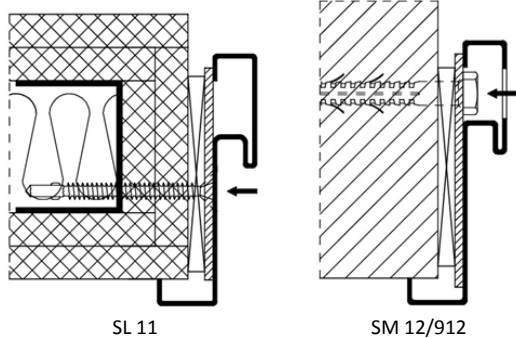
1. Insert the frame in the wall opening and align. Adjust the frame rebate dimension.
2. Insert spacer blocks (installation gap ≤ 30, see the main installation instructions, section 7).
3. Fix the frame to the wall element with the flat irons using suitable fixings for solid or partition walls, see main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

Material for spacer blocks:

Wood/engineered wood

T30, Smoke protection, Burglar resistance class 2/3: Wood/engineered wood, Bulk density ≥ 410 kg/m³

T90 (with/without Smoke protection, Burglar resistance): B1 wooden composite board, for example FRCW, B1-MDF or ROKU Fil PL 1200 or comparable



3 Filling

The frame elements / cavities ① to ④ must be filled around its circumference depending on the requirement(s).

- Fill to back rebate element seal level, at least 50.
- For big and heavy door sets we recommend to fill the frame with mortar.

Additional filling might be required if:

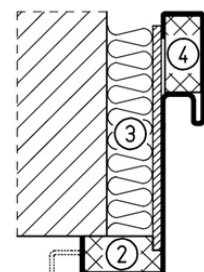
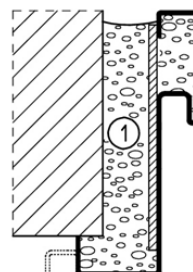
- the hollow sound of the frame is to be reduced,
- a locking mechanism is fitted on the hinge opposite side of the frame,
- the mechanical strength of the installed frame needs to be increased, depending on the area of use (e.g. in schools and hospitals, to protect against vandalism, etc.).

The additional material must be suitable for the type of use and requirement.

	①	② ③	④
No requirements	-	-	-
Smoke protection	-	-	-
Acoustic rating B not for T90 and RC 2/3 S not for T90	B/Z	F/G/S	-
Acoustic rating ≥ 4	B/Z	F/G/S	F/G/S
T30	B/Z	F/G/S	F/G/S
T90	Z	F/G	F/G/S
Burglar resistance (+Smoke protection), T30/T90 + Burglar resistance	Z	Not approved	

Fully fit the frame, then fill the entire frame cavity.

Fit the frame and fill the cavity.



Acoustic rating ≥ 1 and soffit depth ≥ 300: If the decorative trim soffit is not filled, fit sound-deadening mats on the interior of the decorative trim soffit.

Filling material:

B	Fire protection, Smoke protection: Fire protection foam B1 e.g. Würth FZ plus, Alfa 611 B1 pistol foam No/other requirements: Installation foam B2
F	Mineral joint filler, e.g. gypsum plaster
G	Fire protection, Smoke protection: Gypsum plaster fire-rated board No/other requirements: Gypsum plaster board
S	Fire protection, Smoke protection: Rock wool A1 (melting point 1000 °C) No/other requirements: Insulating material, e.g. mineral wool, glass wool
Z	Cement mortar, mortar group ≥ II in accordance with DIN 1053-1

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.

	No requirements, Burglar resistance class 2/3	T30/T90 (+Burglar resistance)	Acoustic rating 1-2	T30/T90 with Smoke protection (+Burglar resistance)	Acoustic rating ≥ 3 , Smoke protection
Hinge side	–	–	●	●	●
Hinge opposite side	–	○	–	○	●

- Apply sealant ○ Always apply sealant to the hinge opposite side except when the frame edge is positioned up against plaster (see figure SM 12).

