



Technical documentation (Plasterer)

Fire protecting fronts «System TI» EI 30-RF 1

VKF Nr. 32'997

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1. Introduction

Are you looking for a tested fire protection front that is EI 30-RF 1 approved in Switzerland?

We offer you a comprehensive range with many different details. All fronts are made to measure according to your wishes. The subsequent insertion of additional cables is possible because the fronts are designed to be removable.

The TI shaft fronts are made of 25 mm gypsum fiberboard and offer a wide range of options. They can be supplied with a sliding ceiling connection, visible sides, a plinth as well as side supports and panels. The cover panels can be mounted with or without screws. Partitions and box cut-outs are also available. You can choose between 120 degree or 180 degree opening angles for the hinges. Door closers and/or reed contacts can be added as an option. You can also obtain optional sound insulation overlays for the shaft fronts.

1.1 About

- Tested to EI 30-RF 1 in accordance with VKF approval
- Suitable for installation in single-sided planked shaft walls, LBW, MBW or Lignum EI 60 walls
- All fronts can be dismantled
- Sliding ceiling connection
- Narrow center sections
- Hinges open 120 degrees
- Hinges open 180 degrees
- Soft bulkhead
- Box bulkhead
- Sound insulation
- Door closer
- Reed contact

2. Arrangement options

2.1 Views Arrangement options without panels (type 1-3)

2.1.1 Single-leaf shaft fronts (Type 1)



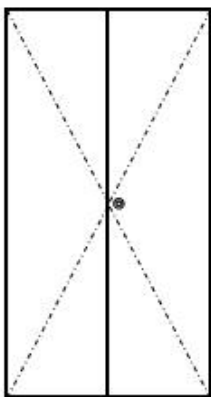
Installed in MBW- LBW or Lignum EI 60 wall:

1-leaf clear dimension max. width 1200mm, max. height 2900, max. area 3.67m²

In shaft wall, planked on one side EI 60

1-leaf clear dimension max. width 1200mm, max. height 2600, max. area 2.82m²

2-leaf shaft fronts (Type 2)



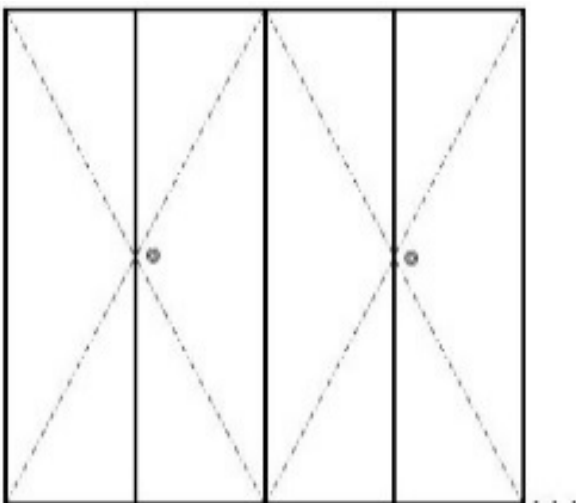
Installed in MBW- LBW or Lignum EI 60 wall:

2-leaf clear dimension max. width 2400mm, max. height 2900, max. area 6.79m²

In shaft wall, planked on one side EI 60

2-leaf clear dimension max. width 2400mm, max. height 2600, max. area 6.10m²

2.1.2 Infinite Arrangement (Type 3)



Installed in MBW- LBW or Lignum EI 60 wall:

Max. clear dimension height 2900mm Single and double-leaf units can be arranged endlessly.

In shaft wall, planked on one side EI 60

max. clear dimension height 2600mm single and double-leaf elements can be arranged endlessly.

2.2 Ground plans



Front Gerade

2.3 Side section



Front Gerade

3. Description of execution

Our TI type fire-resistant fronts are made of RF 1 gypsum fiberboard, which is finished on both sides with a synthetic resin surface in a multi-layer laminate. The surface structure has a fine hammer finish and the fronts are white. The panel thickness is approx. 26 mm. The edges are edged with matching ABS edging. Various surface options are available on request, including color variations from our collection, primer laminates, veneered or lacquered surfaces.

The frame consists of four-sided friezes with a cross-section of 90/26.6 mm. The corner joints are screwed together. A self-adhesive foaming strip with a cross-section of 10/2.5 mm is attached all around the frame frieze. Retaining plates for the hinges are attached to the frame. The base plates are arranged to match the door leaf. A striker block and a striking plate for the bayonet bolt are attached to the top and bottom of the cross frieze on the lock side (only for double-leaf fronts).

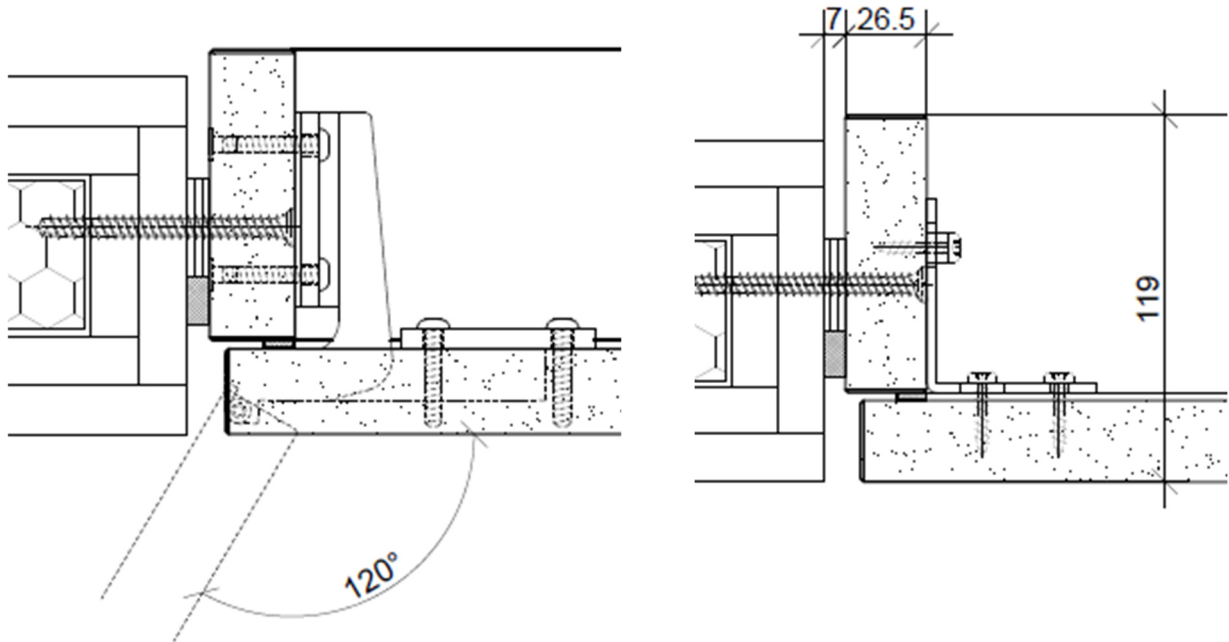
Two to three hinges are used for each door leaf. On the lock side, an espagnolette lock with rod and catch hook striker is used. For double-leaf doors, a striking bar and two bayonet bolts are fitted on the inactive leaf. A self-adhesive foamed-on strip with a cross-section of 10/1.5 mm is attached to the narrow side in the middle.

3.1 Fittings

3.1.1 Hinges B 120

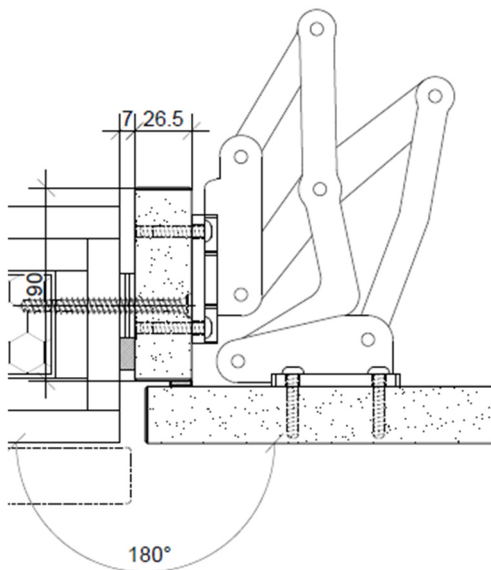
Chrome steel hinges 3D adjustable,
120 degree opening angle.

Hinge lock in the middle



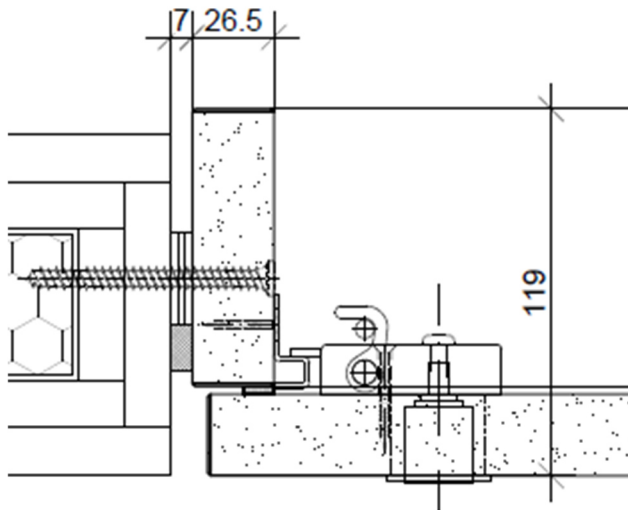
3.1.2 Hinges B 180

Chrome steel hinges 3 adjustable, 180 degree opening angle.



3.1.3 Fire safety lock

- Basic design combination sleeve with square



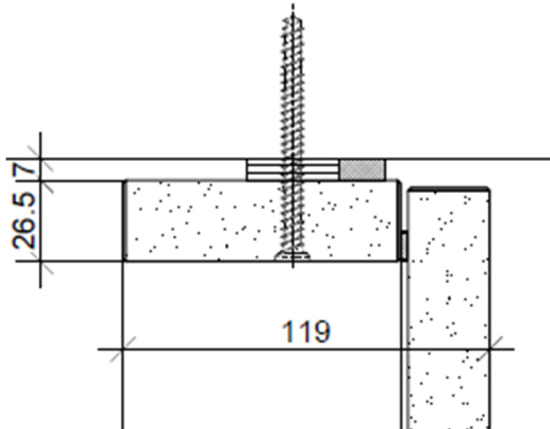
Execution options:

- Combination sleeve for on-site cylinder
- Without combination sleeve with square
- ohne combination sleeve with cylinder

4. Detail drawings

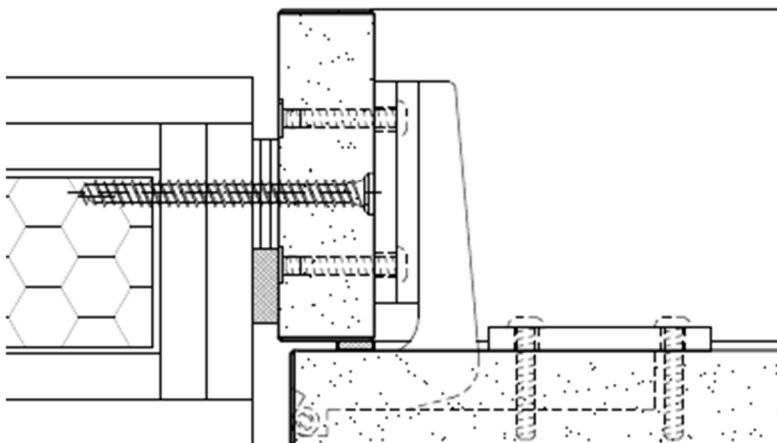
4.1 Ceiling connections (side sections)

4.1.1 With surrounding frieze

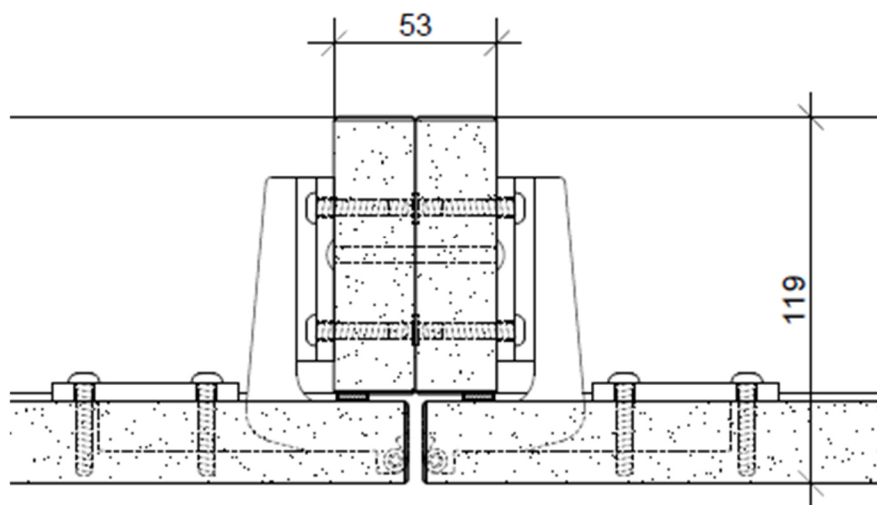


4.2 Horizontal details (ground plans)

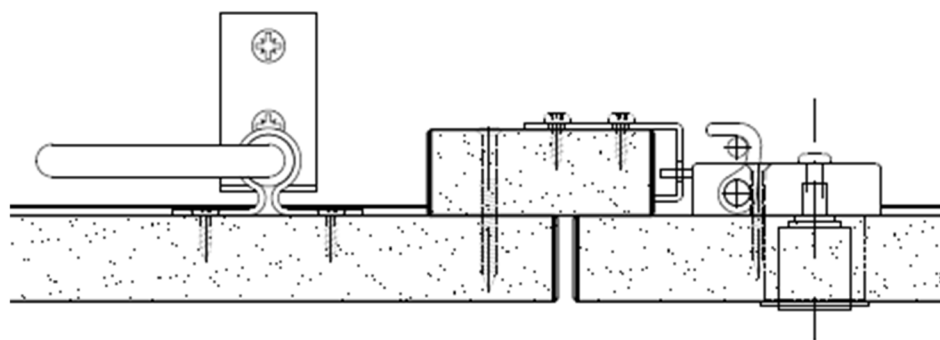
4.2.1 With surrounding frieze



4.2.2 Center post for infinite arrangement

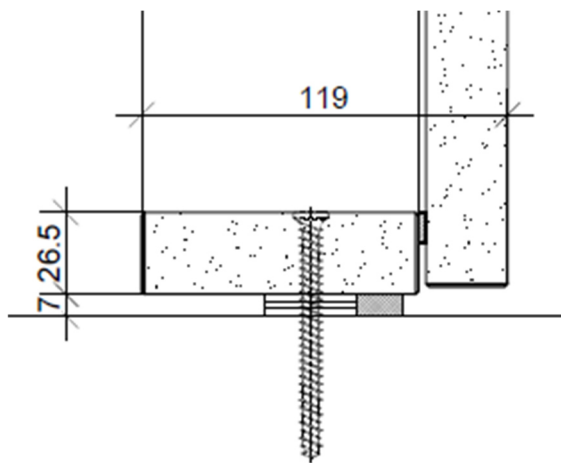


4.2.3 Center detail for 2-leaf doors

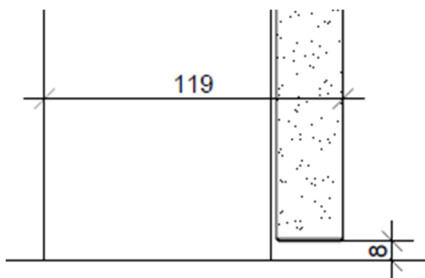


4.3 Floor connections (side sections)

4.3.1 With surrounding frieze

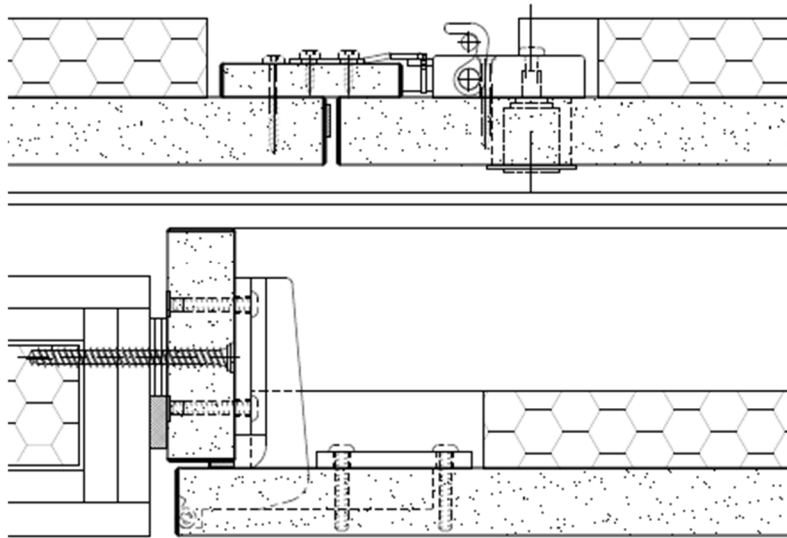


4.3.2 Without frieze



4.4 Additional soundproofing requirements

Door fronts and panels are doubled with 30mm to 50mm rock wool. Silicone seals are fitted on all four sides. In order to comply with the sound values, it is assumed that the seals are optimally cut and glued in the miter cut. The specified sound insulation value was calculated in accordance with EN ISO 717, whereby the spectrum adjustment value C is -1 dB.



4.4.1 Sound 1, R_w 32 dB

Fitted with silicone seal

4.4.2 Sound 2, R_w 34 dB

Fitted with silicone seal and rock wool 30mm

4.4.3 Sound 3 R_w 36 dB

Fitted with silicone seal and rock wool 50mm

4.5 Frame joints

Screw fittings

Rahmenverbindung
(Ansicht von oben)

