



B·S·T® EN fire doors

Protection from fire and smoke, and with additional security

SOMMER B-S-T® EN fire doors are tested according to EN 1634-1 and EN 1634-3 and are approved as interior doors in individual European countries or can be used in individual cases. The pressure-resistant infills used in conjunction with galvanised and painted 1.5 mm steel sheets with a door leaf thickness of 64 mm ensure high dimensional stability and strength, and enable a wide range of applications.

Highlights

- Fire protection EI₂30, EI₂60, EI₂90, EI₂120 per EN 1634-1
- Smoke protection S_a/S₂₀₀ per EN 1634-3 (depends on dimensions)
- Intrusion resistance to RC4 per EN 1627
- Ballistic resistance to FB4 per EN 1522
- Noise protection to 47 dB per EN ISO 717-1
- Air sealing to Cl. 4 per EN 12207
- Pressure resistance
- Waterproof to 950 m water column

B·S·T® DIN fire doors

Technical data



DESCRIPTION

B·S·T® EN fire doors tested per EN 1634-1 can be combined with various safety requirements, such as smoke protection, burglary resistance and water protection. The galvanised and painted steel doors in a thickness of 1.5 mm and the leaf thickness of 64 or 88 mm – for fire protection per EI₂120 – ensure the dimensional and pressure stability of the door. Normally, a galvanised and painted corner frame of 2.5 mm sheet steel is used with the self-closing fire door with top door closer. Alternatively, block or closed frames can be used. The durability of the door is tested to C5 (200,000 cycles). For indoor use only.

VERSION



1-leaf



2-leaf

REQUIREMENTS

- Fire protection EI₂30, EI₂60, EI₂90, EI₂120 per EN 1634-1
- Smoke protection S_a/S₂₀₀ per EN 1634-3 (depends on dimensions)
- Intrusion resistance to RC4 per EN 1627
- Ballistic resistance to FB4 per EN 1522
- Noise protection to 47 dB per EN ISO 717-1
- Air sealing to Cl. 4 per EN 12207
- Pressure resistance
- Waterproof to 950 mm water column (1-leaf)

SIZE RANGES (BASIC DIMENSIONS)

Dimensions refer to corner frame. For block frame, the maximum dimensions are somewhat larger.

- EI30: 1457 x 2885 mm (max. 3.5 m² frame clearance), with upper section to H = 3500 mm
- EI60: 1490 x 2695 mm (max. 3.197 m² frame clearance), special versions to 1490 x 3240 mm (max. 3.857 m² frame clearance)
- EI90: 1600 x 2995 mm (max. 3.9 m² frame clearance)
- EI120: 1434 x 2585 mm (max. 3.07 m² frame clearance)
- EI30: 2530 x 2515 mm, upper section to H = 3500 mm, special versions to 2870 x 2585 mm (max. 6.38 m² frame clearance), or to 2870 x 3110 mm (max. 7.66 m² frame clearance)
- EI60: 2510 x 2255 mm, special version to 2980 x 3240 mm (max. 7.98 m² frame clearance)
- EI90: to 3085 x 2995 mm (max. 7.18 m² frame clearance), special versions to 2980 x 3240 mm
- EI120: 2510 x 2260 mm, special version to H = 2710 mm

In combination with C5 durability, smoke protection, intrusion and other safety requirements, in some cases the maximum dimensions will be restricted.

STRUCTURAL ATTACHMENTS

- EI30 (dimension-dependent): Masonry ≥ 115 mm, concrete ≥ 115 mm, plasterboard firewall EI90 ≥ 100 mm (with tubular reinforcement), coated steel tube, special versions may vary
- EI90: Masonry ≥ 240 mm, concrete ≥ 140 mm, coated steel tube
- EI60 (dimension-dependent): Masonry ≥ 175 mm (2-leaf ≥ 240mm), concrete ≥ 120 mm, plasterboard firewall EI90 ≥ 100 mm (with tubular reinforcement), coated steel tube, special versions may vary
- EI120: Concrete ≥ 140 mm
- Standard installation, even floor
- Installation with stop
- Installation with stop seal
- Installation with drop down seal

OPTIONAL EQUIPMENT

- Glass panel (not with EI120)
- RC2 with panic version, also with glass panel
- Self-locking locks
- Electronic locks
- Electronic safety openers
- Door condition contacts, bolt contacts
- Escape door and man-trap locking
- Revolving door drive
- Bolt contacts for latch and fixed leaf
- Surface detection