

METALFORM

MASTERS OF METAL

EBE AF Doors and EI 60 Fixed Panels

METALFORM

EBE AF Doors and EI 60 Fixed Panels

Description:

Supply and installation of doors, windows, and facades, including fixed and openable sashes. These are inward-opening doors built with thermal break profiles Secco Sistemi EBE AF, possessing fire-resistant characteristics of EI 60. The construction involves the seamless joining of two metal shells—one whole and one external—using fire-resistant thermoplastic extrudate and high-density fire-resistant resin, injected under high pressure. Calcium silicate slats fill the recesses of the profile to ensure fire resistance.

Frame Assembly:

The metal shells are cold-rolled profiling strips of stainless steel aisi 316L Marine, meeting standards of 15/10, eN10088-2, and EU114, with a Scotch Brite finish. The folding unit remains open during assembly for the insertion of stainless steel alignment brackets, even during continuous surface welding. Frames are assembled through continuous welding of contact surfaces followed by grinding and surface finish restoration.

Minimally Visible Sections:

- Fixed side node: 72 mm
- Opening side node: 94 mm

METALFORM

- Central node for two sashes: 156 mm
- Mandatory depth: 65 mm for EBE65, 73.5 mm for EBE75
- Internal and external coplanarity of profiles ensured.

Sealing:

Doors feature closed-joint, two-level, water/air/wind-resistant silicone seals at the profile rebate, along with an automatic air- and water-tight guillotine equipped with a fire-resistant EPDM gasket. Intumescent gaskets of 2 mm thickness are present on both sides of the thermal break.

Glass/Panel Installation:

Glass or solid panels are positioned using calcium silicate supports in opposite corners and fixed with snap-on glazing beads using special bushings. Internal and external ceramic gaskets ensure sealing between the glass/panel and profile. For external doors, ceramic gasket sealing is protected from weathering with fire-resistant sealant.

Insulation:

A 30 mm thick layer of rock wool is provided between the supporting structure and fixed doors, and doors with fixed panels, on vertical and upper horizontal sides of the frames. Outward-opening doors feature sealing with fire-resistant silicone at the joint.

METALFORM

Hardware:

Doors and fixed panels are equipped with screw-on hinges adjustable in number, with stainless steel hinge bolts ensuring sash safety. Hinges are made of stainless steel.

Surface Finish:

Oxidized Scotch Brite finish is applied to surfaces.

Handles:

Handles come in various shapes, materials, and finishes, including stainless steel.

METALFORM

MASTERS OF METAL

UNITED KINGDOM

METALFORM

NORWAYMETAL LTD

53 Chelsea Manor Street

London, SW3 5RZ

SALES@METALFORM.UK

+44 20 81298814

GERMANY

METALFORM GMBH

Carl-Zeiss-Ring 15A

85737 Ismaning

SALES@METALFORMGROUP.DE

+49 17663630406

NORWAY

METALFORM AS

Brochmannsveien 2

1950 Rømskog

SALG@METALFORM.NO

+47 401 62 446

METALFORMGROUP

SALES@METALFORMGROUP.COM