

# **METALFORM**

**MASTERS OF METAL**

**EBE AF Doors and EI 60 fixed panels**

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## Corten steel EBE AF Doors and EI 60 fixed panels

**Description:** Supply and installation of doors, windows, and facades, in fixed and openable sashes, for inward opening doors, built with thermal break profiles Secco Sistemi EBE AF, with fire-resistant characteristics EI 60. The seamless joining of two metal shells (one whole and one external) is achieved by means of fire-resistant thermoplastic extrudate and made integral to the parts by high-density fire-resistant resin, injected at high pressure. The recesses making up the profile are filled with calcium silicate slats necessary to ensure the profile's resistance to fire.

**Metal Shells:** Cold-rolling profiling strips of Cor-Ten steel (Fe510X) with a thickness of 15/10, in accordance with eN1049 standard.

**Assembly:** Continuous welding of the contact surfaces followed by grinding and restoration of the surface finish. Minimally visible sections include a fixed side node of 72 mm, opening side node of 94 mm, and central node of 156 mm for the two sashes. Mandatory depth of 65 mm for EBE65 and 73.5 mm for EBE75. Internal and external coplanarity of the profiles.

**Sealing:** Doors equipped with closed-joint, two-level, water/air/wind-resistant silicone seals at the profile rebate, and below, equipped with an automatic air- and water-tight guillotine with fire-resistant EPDM gasket. On both sides of the thermal break of the profiles, there is a 2 mm thick intumescent gasket.

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**Windows and Doors:** Complete with glass or solid panels, positioned through the use of calcium silicate supports placed in opposite corners and fixed with snap-on glazing beads using special bushings. Sealing between the glass or solid panel and the profile is carried out with internal and external ceramic gaskets. For external doors, the sealing of the ceramic gasket is provided to protect it from weathering by means of fire-resistant sealant. A 30 mm thick layer of rock wool is provided between the supporting structure and the fixed doors and doors with fixed panels, on the vertical sides and on the upper horizontal side of the frames.

**Joint Sealing:** For doors that can be opened outwardly, the joint is sealed with fire-resistant silicone.

**Hinges:** Equipped with screw-on hinges that can be adjusted in number, from two up to four, depending on the door height. Stainless steel hinge bolts are installed at the hinges to ensure the safety of the sash. The hinges are in hot burnished stainless steel.

**Surface Finish:** Oxidized surfaces finished with acid etching, oxidation, passivation, and waxing processes.

**Handles:** Available in different shapes, materials, and finishes, including stainless steel.

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