



EXTERNAL FIRE RESISTANT STEEL DOOR

MFD017

EXTERNAL FIRE RESISTANT STEEL DOOR FG EI60, OUTDOOR OPENING

Version 09

**Recommended use**

External door used in residential buildings, multi-storey apartment buildings, industrial buildings or offices, where fire resistance class of door must be EI60.

**Dimensions**

The maximum dimensions of the door frame, mm: **1130 x 2430** or **1170 x 2350**.

**Certificate of conformity**

The door has been tested in accordance with the provisions of test standard EVS-EN 1634-1:2002 in a testing laboratory of TÜV NORD Baltik OÜ in Tallinn, and certified in accordance with the provisions of standard EVS-EN 13501-2:2004 by a certification bureau EstCert OÜ. The door holds a certificate no 153-065/08 with fire resistance grade EI<sub>2</sub>60. The noise resistance (R<sub>w</sub>) of the door according to the test standard EVS-EN ISO 140-14:2004 is 32 dB.

**Construction**

The door is manufactured of electrically galvanized sheet steel with stamping, edging and welding. The hinges are 2 joint sheet hinges with a ball bearing. Diameter of hinge axis is 14 mm. Two safety joint-pins 12 mm in diameter are placed between the hinges.

**Door sheet** is 64 mm thick. Jacket edges are at sides and top. External and internal side are made of 1,00 mm thick electrically galvanized sheet steel. Tin sheets of the door sheet are on jointed with a welding seam. Inside the door sheet, there is isolation material in the form of fire-proof stone wool and mineral plate.

**Sash** is made of 1,5 mm profiles of electrically galvanized steel, connected in sash corners with welds. Insulation is rock wool. Sash can be ordered with cover slat covering lateral installation slots (type MM) or solution without cover slat, for installation deeper than wall surface (type MS). A gluey sealing of elastic rubber with P-profile and a dilative sealing 2x20 mm are fixed to the sash.

**Threshold** is made of hot-zinced or painted sheet steel.

**Finish**

Door are painted with polyester powder paint and zinc epoxy-basepaint. Standard tones are RAL9010 (pure white), RAL7001 (silver grey), RAL8014 (sepia brown), RAL9007 (grey aluminium), RAL7024 (graphite grey), RAL9006 (white aluminium). The additional possibility is to have the door painted with bicomponent polyurethane paint and epoxide priming paint in all the tones of RAL catalogue.

**Locking**

Usage locks of well-known lock manufacturers Abloy, Boda, Assa, and Nemeff. Locks certified as fire locks can be installed to the door.

**Installation**

Sash is fixed in seven points with connectors and hexagonal screws 8 x 100 mm. Connector aperture diameter is 10,5 mm. Fixing apertures are covered with plastic plugs with diameter 19 mm. The plat band is secured with a male screw 6,3 x 60 mm in the middle.

After fixing the installation, the door sash and the installation clearance are filled with stone wool or construction foam and are covered with a protective cleat of sheet metal of the same color as the door sash. Package includes fixing screws, connectors and plugs. For more details see installation manual.

**Accessories**

The door can be improved and completed with following accessories:  
 - stainless steel threshold, border slats, eyehole, security chain, door catch, foot sheet, core, core covers, door handle, lock casing, stainless steel hinges with ball bearing;  
 - Window, the maximum dimension of the lighting opening 510 x 530 mm, minimum distance from the edge of the door sheet is 240 mm, may take up to 25% of the surface area.  
 Catch with non-detachable arm must be installed to the door located in evacuation path. Catch Abloy DC405BC can be used.

**Maintenance**

Door must be checked and maintained at least in every six months. Check closing of door and operation of locking elements. Detailed information is available in maintenance manual. It is possible to sign a maintenance contract upon purchasing the door.

