



**sakumetall**

**EXTERNAL FIRE RESISTANT STEEL HATCH**

**MFD027** EXTERNAL FIRE RESISTANT STEEL HATCH FG EI30

Version 08

**Recommended use**

Used in small openings between fire protection compartments in industrial buildings, residential and office buildings where there is requirement of fire resistance class EI30. This hatch can be installed only in vertical position.

**Dimensions**

The maximum dimensions of the door frame, mm: **1130 x 2440** or **1170 x 2350**.

**Certificate of conformity**

The hatch 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. Hatch holds a certificate no 344-065/08 with fire resistance grade EI<sub>2</sub>30. The noise resistance (R`W) of the door according to the test standard EVS-EN ISO 140-14:2004 is 36 dB.

**Construction**

The hatch 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.

**Hatch sheet** is 64 mm thick. Jacket edges are at all four sides.

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 hatch 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 sheet 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.

**Finish**

Hatches are painted with polyester powder paint of the more conventional tones. Standard tones are RAL9010 (pure white), RAL7001 (silver gray), RAL8014 (sepia brown), RAL9007 (grey aluminum), RAL7024 (graphite grey), RAL9006 (white aluminum). The additional possibility is to have the hatches painted with bi-component 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 hatch.

**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.

After fixing the installation, the hatch 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 hatch sash. Package includes fixing screws, connectors and plugs. For more details see installation manual.

**Accessories**

The hatch can be improved and completed with following accessories:  
 - 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 hatch 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**

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

