

DESCRIPTION OF THE STRUCTURE

The MB-60E EI system of fireproof walls and doors is intended for execution of internal or external fireproof partitions with single or double doors and technical windows featuring fireproof EI15 and EI30 according to PN-EN 13501-2+A1. The system has been classified as non-fire propagating (NFP).

The application of glazed fireproof barriers in building industry should be subject to the technical documentation of the building, designed in accordance with applicable standards and regulations.

FEATURES OF THE MB-60E EI SYSTEM:

- The construction of the system is based on aluminum profiles with thermal spacers belonging to the MB-60E system. The structural depths of profiles is 60 mm.
- Elements of the GKF fire insulation are inserted in the insulation spaces between the profiles.
- Working required to connect profiles is reduced to minimum due to the application of aluminum connecting members and auxiliary accessories provided with the system. Corner connections of the “L” type are executed by trimming the ends of the frame or leaf profiles at the angle of 45°, followed by crimping or pinning and gluing (with two-component glue CORALGLUE®) to aluminum corner cleats embedded in the inner chambers of profiles. Crosswise joints of the “T” type are performed by pinning of crosspieces to the inserted corner cleats and gluing with CORALGLUE®.
- The glass panels are additionally protected on the outside with steel holders, screwed to the inner and outer profile with sheet metal screws.
- Glazing beads of closed shape fitted on the inner side allow for installation of infills of high resistance. EPDM positioning rollers are fitted in these beads to facilitate the installation of beads in the frame.
- Inner glazing seals are deeply embedded in glazing beads, hence they are hardly visible on the outside.
- The system allows for application of all standard fireproof glass panels of various classes ranging from 6 to 41 mm.
- The system enables glazing with all standard fireproof glass panels of thickness ranging from 4,5 to 40,5 mm. Glazing shims are made of fireproof material.
- Each structure of the MB-60E EI system, designed to be fitted in external developments must be equipped with an efficient drainage and ventilation system deflecting water from the glass pane chamber. The working and the diagram with the layout of drainage and ventilation holes are presented in the section “Working”.
- Allowable dimensions of door leaves: height $H_s=2475$ mm, width $L_s=1400$ mm.
- The MB-60E EI system of fireproof partitions with doors is compatible to a large extent with the MB systems, in particular with the MB-60E, MB-86 and MB-78EI systems (a large number of common profiles, details, hardware, workings, etc.).

