

## MB-45S

Doors with clamp hinges without a thermal break

The MB-45S door with clamp hinges without a thermal breaks represents a part of the MB-45 door and window system manufactured by ALUPROF S.A. The MB-45S system is a modern design, developed to execute cost-efficient and highly functional doors and partition walls with doors equipped with clamp hinges.

The structural depth of door profiles equals to: 45 mm. The MB-45S system features a very simple and quick prefabrication of products due to the elimination of the most labor-consuming mechanical treatment. Due to the application of special grooves, the design of profiles enables mounting of different types of hinges, strikers and bolts. The system can accommodate hardware manufactured by renowned companies such as Dr Hahn, Geze or Wala. Another essential advantage of the system is an option to bend profiles, which allows performance of different arches and arched constructions. The treatment of profile joints, likewise in the MB-45 system, is reduced to the minimum thanks to the application of aluminum joint members and auxiliary accessories provided with the system. Detailed information regarding particular types of joints is provided on subsequent pages of this Catalog. Glass panels or other infills are installed by means of glazing beads and gaskets. The door design enables the application of glazing units of thickness ranging 2 mm through 26 mm. Glazing, brush and central gaskets are made of EPDM synthetic rubber. External and internal gaskets are fitted as continuous stripping, without corner trimming, by joining gasket ends in mid-length of the upper crossbar of the door frame. Such system of glazing secures perfect tightness of the structures and considerably reduces the installation time. Each door structure intended to be assembled in external development, must be equipped with efficient ventilation and drainage system, deflecting water from the glass chamber, as well as from the space between the leaf and the frame. Ventilation and drainage holes are protected from the outside with plastic covers

The MB-45 and MB-45S system, with regard to internal doors and parts of partition walls have been granted a technical approval AT-15-5176/2006. The ITB's [Building Research Institute] technical approval contains detailed information regarding the intended use, range and conditions of application for products based on these systems.

