

MB-70SG

Window system with hidden sash

The MB-70SG window constructions conform to all aesthetic requirements imposed by architects and investors, i.e. when looking from the outside, it is impossible to see the difference between fixed and active elements. The width of visible frame and lacing profiles is considerably narrower than in the case of the MB-70US system. The windows of this type are intended for installation in wall apertures and in the mullion/transom façade. The MB-70SG system, like the MB-70 system, features a very low value of overall heat transfer coefficient U thanks to the application of special thermal breaks and gaskets. Window profiles of this system conform to the thermal requirements laid down for the material group 1 as per DIN 4108 T.4. The structural depth of profiles equals 70 mm both in the case of frames and sashes. Aluminum profiles feature three chamber construction, in which the central chamber performs the function of an insulation chamber between thermal breaks. Moulded thermal breaks applied in the system in the shape of omega letter are made of polyamide reinforced with fiberglass. Such shape of breaks enhances rigidity of profiles as compared to flat breaks and facilitates deflection of water from profiles. Glass panels are glued to the aluminum sash profile with structural silicone. Gluing is performed by companies specially trained by silicone suppliers and the gluing process itself is carried out under strict supervision, which guarantees that the connections are proper. There are applied single-chamber graded glazing units, in which the external glass panel of the thickness 6 mm only should be made of tempered glass or thermally toughened glass. For aesthetic reasons reflexive glass is recommended. Mechanical support of bottom edges of both the external and internal panel has been incorporated into the system. The external panel of the glazing unit, in the position of a closed sash, is additionally fitted with an external closing gasket, which mechanically protects the glass panel from possible falling out. The connection between the glass panel and the sash frame is masked from the external side by means of stripping and glazing gaskets, which makes it possible to apply a wide thickness range of glazing units. Profiles are equipped with molded grooves of such dimensions as to enable fixing of multi-point locking hardware meeting the EURO standard. Treatment required in connecting profiles is reduced to a minimum, like in the MB-70 system, thanks to the use of provided with the system aluminum connecting members and auxiliary accessories. Triple sealing of the space between the sash and the window frame applied in the system guarantees perfect protection against water and air infiltration. The inner closing gasket and the central gasket are made of EPDM - two-component synthetic solid and cellular rubber, featuring very good thermal insulation performance.

If you have any queries or doubts, ALUPROF S.A. specialists are always happy to provide you with their assistance and advice.

