

## DESCRIPTION OF THE STRUCTURE

The MB-80 OFFICE internal, double-glazed partition wall system has been designed to build fixed partition walls and walls accommodating doors in office rooms and public facilities. It allows for universal arrangement of space (not full height development, roofing, curves of any angle, etc.), application of various transparent and non-transparent infills, application of inter-pane blinds and mounting electrical installation equipment. Such partition walls are particularly recommended in buildings where high sound insulation is required. Simplicity of execution of all works on site is an important feature of this system.

## FEATURES OF THE SYSTEM:

- The structural depth of profiles is:
  - 80 mm – so-called “shallow arrangement”,
  - 92 mm – so-called. „deep arrangement”,depending on the thickness of the applied infills. Due to two-level seats for fasteners of clamping strips, both shallow and deep development can be executed on the basis of the same basic sections. In one partition wall both depths can be taken advantage of thanks to a reducing section.
- Visible width of the basic vertical and horizontal profile: 36 mm
- Maximum height of the development: 4.5 m. Total length of partition wall - unlimited.
- Basic types of infills:
  - a unit composed of two single glass panels 4 ÷ 14 mm thick each,
  - furniture boards of standard thickness 18 mm (or thinner) with sound insulation 50 mm thick,
  - plasterboards with sound insulation 50 mm thick.
- Possibility of application of mixed infills (e.g. transparent in the upper part while in the bottom part non-transparent, made from furniture boards).
- Application of infills of different thickness entails changing an inner gasket. The outer gasket and consequently the appearance remain the same. The outer gasket is not visible on the outside.
- Mullions and rails as well as profiles cooperating with them are made from the same sections. It means that even clamping strips fitted vertically and horizontally are of the same height, which gives freedom in constructing connections.
- The simplicity of prefabrication and installation reduces the time of fabrication and workings may be carried out directly on site. Most profiles require cutting at the angle of 90° without having to be milled and workings can be made with the use of a portable saw and drilling stencils. All tooling elements for the MB-80 OFFICE are presented in the section “Tooling”.
- Connections of nodes in the load-bearing grillage are executed by pinning or screwing of profiles with the use of special connecting members. There is a group of connecting members allowing for adjustment (correction) of the position of a rail or a mullion.
- Corner sections enable building a curved wall, bent at 135° or 90°. Additional aluminium covers make it possible to hide standard Ø58 ÷ Ø100 mm diameter aluminium pipes as a corner section, which allows for execution of any angle of the wall curvature within the range 77° ÷ 180°.
- Possibility of installation of the MB-45S door, aligned with the surface of the partition wall with hinges not protruding from the wall face.
- Possibility of installation of the MB-45 OFFICE and MB-EXPO doors with centrally-positioned leaf.
- Possibility of combining the MB-80 system with a wall or door of any ALUPROF system - either centrally or aligning it with the surface of the partition wall.
- Application of an expansion joint profile allows for independent work of the partition wall in relation to the building. Furthermore, it eliminates any unevenness of the floor and walls of the room.
- Possibility of installation on pre-levelled a continuous set of expansion joint profiles The mullions mounted on them can be moved (adjustment of position to the right or left) at any time. Such solution also makes it possible to maintain even surface of the partition wall.
- A widened option of the rail serves the function of a duct in which electrical installation cables can be laid and in which the system-dedicated LEGRAND electrical installation equipment can be fitted (e.g. sockets,

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switches, etc.). It also enables an easy access to the cables, both from the side of the equipment and from the other side. Ducts may be located in any place – near the floor, at the height of desks, in mullions, etc. It is also possible to install the equipment on both sides.

- Structural depth of base profiles allows for installing blinds built in between glass panels. The roller blinds headbox can be hidden if a widened clamping strip is applied.
- Possibility of insertion of standard steel and aluminium sections into a mullion in order to increase mullion rigidity.
- Possibility of combining a partition wall with a standard plasterboard wall 75 mm thick.

