



PARTITION WALL "STEEL-WALL"- GENERAL DESCRIPTION

Mobile partition wall consisting of modules in standard widths of 1,000 mm or 1,200 mm + terminal elements. The heights are with the tolerances necessary to compensate for variations in the height between the floor and the ceiling (or false ceiling). The total thickness of the partition is 110 mm. It is composed by an upright made in galvanized steel 8/10, countored with a planned drawing. There are also pre-drilled holes at intervals of 80 mm to the entire vertical length that are used to fast the panels and the frames with glasses with a rapid joint system. The strips (rubber tape) are made by plastic material and their softness is controlled.

If the partition walls are installed under a false ceiling, it is not necessary to fit support struts between ceiling and the false ceiling.

Our partition wall system also features numerous special modules, and is designed in such a way that the walls can quickly and easily be removed and re-installed whenever required without replacing any of the modules. If necessary, door modules can be added, and glazed sections can be replaced by panelled sections (and vice-versa); open-fronted cabinets or cupboards with doors, drawers etc. can be fitted to the wall units, which means that the lay-out of the work area can quickly be modified whenever this is made necessary by changes in the office organization or the number of employees. The panels are in bended sheet steel externally pre-covered with a PVC sheet (skinplate). On the internal side it is also pressed a gypsum panel, thickness 13 mm, necessary for acoustic insulation and stiffening.

The crosspieces (mullions) consisting of "C" profiles. These profiles are in galvanized sheet metal and are installed into pre-established positions. In this way it's maintained always the same distance among the uprights and also it's ensured the stiffening of the metallic structure.

The perimetral profile to the floor and to the ceiling present an "U" section and it is in sheet steel; on the lower side and on the vertical sides are positioned sealing strips in plastic material.

A mineral wool layer, thickness 50 mm., is inserted into the cavity between the two panels in order to provide maximum sound-proofing. The results of our tests show an acoustic insulation of 45,5 Db at voice frequency, which ensures that the level of noise in the work area is reduced to a minimum, and a fire resistance higher than REI 90 (105 minutes).

The panelled door is set in a double frame in enamelled aluminium. The door itself

consists of a hollow hardboard panel lined on both sides with 0,9 mm. laminate in a colour which matches that one used on the panelled modules. The overall thickness of the door is 42 mm.

The glazed door is set in the same frame, and consists of a 10 mm pane of tempered plate glass..

The hinges are in enamelled aluminium and can be used to adjust the height of the door at the moment of installation.

"Cas" handles are fitted to both types of door. Aperture can be changed from left to right and vice-versa without any modification of the door.

The glazed sections consists of a rounded double frame in extruded aluminium with an enamelled finish. The double frame makes it possible to install glass panes of different thickness (4 mm.thickness , 3+3 laminated safety glass) and to insert manually- or electrically-operated strip curtains between the panes. Irregardless of their thickness, the glass panes are fitted flush with the panelled sections, thus creating an attractive smooth effect and eliminating unsightly differences in depth where dust would be a problem. The glazed frames are fixed to the structure as normal panels.

The modules can be glazed down to the level of the skirting board, using standard toughened or laminated safety glass.

The corner joints of the glazed frames consist of special metal brackets which assure perfect alignment of the profile strips and guaranteed the solidity of the overall structure.

It is possible to use for panelled modules, instead of skinplate, a 18 mm melamine-lined fibreboard in a wide range of colours or veneered in wood. These panels are anchored to the metallic structure using special pressed steel profiles which are back screwed.

Using fibreboard panels the certified acoustic insulation of the partition wall is 43 dB.