

November 2009

OPTIMA PARTITIONS – TECHNICAL SPECIFICATIONS

Optima is a tile based, low and full height modular panel system, with the finest provision for cable management. The panel thickness is 86 mm, with different heights and widths that can be configured to suit almost any modular layout. All panels have leveling bolts to overcome floor unevenness.

The structure comprises of aluminum uprights connected to horizontal mild steel pipes using special 'smart' connectors. This framework supports the tiles, cable management and furniture components like work surfaces, storage etc. The tiles are simply snapped on both sides of the panel structure, and are available in fabric, glass, laminate and veneer finishes.

Thickness - 86 mm

Vertical uprights- aluminum 6063 – T6 alloy extrusions, with an average thickness of 2 mm. The uprights are slotted along their entire length, allowing the attachment of accessories at any height in steps of 25mm.

Horizontal members- 19mm dia steel tube – thickness 2mm, with ABS connectors at either ends that snap fit into the vertical members.

Top trims, End Trims- aluminum 6063 – T6 alloy extrusions with an average thickness of 1.5mm

Skirting- MS, powder coated

Junctions- 2 way straight, 2,3 & 4 way at 90 degree, 3 way at 120 degree.

Tiles

- Fabric tiles are formed from galvanized iron sheets 1 mm thick, on CNC machines, with a polyurethane foam inlay of 6 mm and are then upholstered with fabric.
- Laminate and Veneer tiles – thickness 09 mm.
- White marker board and magnetic board tiles.
- Glass tiles 5 mm thickness
- Tiles on either side of the panel are independent and can be of different finish.

Panel sizes

Widths: 60, 70, 80, 90, 100, 120, 150, 160 cms

Heights: 75, 105, 125, 135, 155, 165, 185 cms

Tiles are attached to the panel using 'smart' clips. The method used to locate the smart-clip on the framework ensures maximum accuracy and operational simplicity.

Note: All aluminum and MS components are epoxy-powder coated to approximately 60-80 microns.

Frame Strength

OPTIMA – meets the British BS4875, PARTS 5,6 and American ANSI/BIFMA X 5.6 – 1993 standards. An intelligent integration and aluminum, steel and a composite plastic material creates a balanced and stable structure using lightweight components. Panel assembly is implemented using “cold” connections, permitting optimization in the selection of panel materials. This method enables on-site panel assembly, reducing transportation and storage volume by more than half, with the accompanying cost savings.

Cable management

Volume

The panel thickness of 86 mm allows large internal cavities for substantial quantities of cable management.

Internal cable passages

Cables may enter at any location along panel bottom, end of panel wall or ceiling. Passages within uprights are protected by a plastic grommet.

Concealed switch boxes

No switch cut-outs are required on the panel. Optima has a cavity of 60 mm to accommodate electrical, LAN and phone socket outlets. The socket modules can be mounted all along the width of the panel using a simple accessory. Adding or removing of sockets can be done easily, without dismantling or moving furniture components. Excess wire length too can be neatly stowed within the panel.