



Technical Specifications

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Testing Standards

Bamboo is fully tested against ANSI/BIFMA X5.6-2003 including flammability test ASTM E 84.

Panel Assemblies

All panels are shipped complete with top trims, panel inserts, alignment kit, glide kit and cores. All panels accept separately specified stack kits (only available in Phase 2) that can be added up to two stacks (max. additional height 800mm). All panels specified as powered include power blocks assembly with is made out of two power blocks (serve as the holders for power hatch cum cable organizer) positioned at the extreme ends at beltline level and linked with a rectangular connector. Power panels with vertical include vertical cable way completed with covers.

Top trims, an ornament, are made out of aluminum, 2mm thick. Panel inserts are made out of resilience PVC. The alignment kit is made out of black-oxide steel. The glide housing is made out of zinc alloy with epoxy powder coat and the glide is made out of tough Nylon.

Power blocks for power panels are made of highly durable plastic Nylon 6. The rectangular connector is made out of rectangular steel bar 1 x2 1.2mm thick with powder coat finish. Vertical power cover is made of 0.8mm thick steel sheet with powder coat finish.

Monolithic Panels

The panel consists of four powder coat aluminum rails — two verticals and two horizontals — with minimum wall thickness 2mm. The rails are made up into a complete frame in rectangular shape using machine screws M6x45L with core materials embedded into it. Aluminum top trim and glide kit are separately housed in the upper and bottom horizontal rail horizontal rail of the frame. Panel insert and alignment kit are completed into the packaging for complete panel connection.

The core is in a wide variety of finishes include fabric, glass (clear, pattern, frosted), polycarbonate, perforated/embossed and whiteboard. Different core materials could be specified into a panel (for all types except monolithic panel) depending on the panel configuration. Fabric core is made out of 12mm thick particle board laminated 3mm thick foam both sides with hot-melted adhesive and upholstered with fabric as the surface material. Fabric upholster is a pre-sewn envelope with the open end sealed with staples.

Glass core is made out of a piece of 8mm thick tempered glass with options of clear, pattern or frosted. Hard-soft co-extrusion PVC gaskets are used to hold the glass sheet firmly in the panel structure. Same gaskets are applied to polycarbonate core of 8mm thick.

Perforated or embossed core is made out of two pieces of 0.8mm thick steel sheet formed into metal pan and finished with powder coat. 15mm thick foams of four to six pieces depending on the metal pans size are added in between the metal pans to keep them in place in the panel structure. Whiteboard core is made out from 12mm thick particle board laminated with whiteboard laminate of 1mm thick both sides.

Segmented Panels

Similar to monolithic panels, segmented panels are made out of two vertical and two horizontal aluminum rails of minimum profile thickness 2mm that made up into a complete frame structure in rectangular shape using machine screws M6x45L. On top of this, intermediate rails which are made out of aluminum too are added to the panel structure using machine screw M4x25L to form a two-height (two segments) or three-height (three segments) panel. Similarly cores of variety of finishes depend on the panel configuration is embedded or filled into all segments of the panel.

The core materials are made out in exactly the same way as per detailed above except that the size is smaller to fit the size of segmented panels.

Power Panels without Vertical

Beltline power panel has exactly the same structure as per segmented panel except it is added with a beltline power assembly of size approximately 200mm in height at the panel beltline level, i.e. at the location above the first intermediate rail from the bottom of the panel. To house the power assembly successfully into the panel, an extra intermediate rail is placed at the position 200mm higher than the first intermediate rail in the panel structure.

The beltline power assembly is composed of two power blocks made out of highly durable plastic Nylon 6 linked up with a rectangular steel bar 1 x12 1.2mm thick finished with powder coat. This assembly is housed to the panel structure by having the power block attached firmly to the vertical rails using self tapping screws.

Power Panels with Vertical

The panel construction is similar to beltline power panel except that it is added with vertical line assembly for cable management purpose. The vertical line assembly is made out from a vertical aluminum structure of about 700mm in height which is spaced at distance of about 200mm from one of the vertical rails using two intermediate structure that is either made out of aluminum or steel using screws. The vertical line is then completed with two 0.8mm steel sheets finished with epoxy powder coat at both sides.

Power Hatch, Covers and Cable Organizers

All beltline covers including hatch, intermediate, end, and corner covers for 90 and 120 degree are constructed from 0.8mm steel sheet with powder coat finish. Socket brackets are made out of 1.5mm thick steel sheet. Cable dividers are made out of 1.5mm steel sheet and complete with Velcro straps. Cable boot is made out of 0.8mm steel sheet.

Pole Connectors and End Trims

Pole connectors are available for panel connection in X-way, T-way, L-way, I-way, Y-way and V-way. 4-way pole connector is applicable for 90-degree panel connection, i.e. X-way, L-way and I-way. L-way pole connector is specifically applied to the 90-degree panel connection in L-way. 3-way pole connector is for 120-degree panel connection, i.e. Y-way and V-way.

All pole connectors are made out of aluminum extrusion at minimum wall thickness 2mm and powder coat finish. All poles are built with tiny round holes at the bottom for panel alignment. 4-way pole is built with cable access to allow beltline cable management. End trim is made out from aluminum extrusion with powder coat finish.

Both pole connectors and end trims are completed with top cap made out of zinc alloy die-cast with powder coat finish and panel inserts/connectors in the packaging.

Worktops & Support Brackets

All worktops are made out from 25mm particle board laminated with 0.7mm thick HPL (high pressure laminate) and backer. Worktop edge is finished with 2-3mm thick PVC strip.

Worktop supports include cantilever brackets handed and sharing, sliding cantilever bracket, corner inserts and flush mount plate.

Cantilever bracket is made out of steel sheet 2.5mm thick finished powder coated. It comes complete with a mounting inserts made out of steel plate of 5mm thick. Sliding cantilever bracket is made out of zinc alloy die-cast 5mm thick. Corner insert is similar to cantilever bracket mounting insert which is made out from 4.8mm steel plate. Flush mount plate is made out of 3mm steel sheet. All worktops come with two pieces of flush mount plates.

Hanging Storage and Accessories

OSU case is constructed from 1.1-1.5mm steel sheet. The hook bracket is made out of 2.5mm steel sheet and the lock bracket is made out from 2mm steel sheet. Open shelf panel is made out from 1.1mm steel sheet. The hook bracket is made out from steel rod diameter 8mm.

All paper management accessories including paper tray, pencil tray, file sorter, CD tray and binder holder are made out from steel sheet varies of 1.2mm thick and finished powder coat.