

## Pin-Fast



### **SPECIFICATIONS:**

**General** - The shelving shall be modular and of demountable design to permit assembly, disassembly, and rearrangement of component parts into different configurations and ranges. Each straight line configuration shall consist of one initial unit and any number of additional units as shown on the plan. Each initial unit shall consist of two end panels, a cornice, a base(s), a back panel, and adjustable shelves as described in Equipment Schedule. Each additional unit shall consist of an intermediate upright, a cornice, a base(s), a base shelf (shelves), and adjustable shelves as described in Equipment Schedule, and a back panel.

**End Panels** - The end panels shall be 1" thick, 9-ply formaldehyde free hardwood veneer core construction, with select grade "A" oak or maple veneer faces. Solid oak or maple panel construction shall not be permitted. The exposed vertical and top edges shall be externally banded with a minimum of 1/8" thick solid oak or maple and radiused 1/16". The end panels shall be fitted with eight M6 spreading brass threaded inserts set flush with the surface for cornice and base attachment and drilled the full useable height of the upright with 5-mm holes on 32-mm centers for Pin-Fast® shelf pin system.

**Intermediate Panels** - The intermediate panels shall be the same as the end panels except all faces shall be "A" grade veneers and all the holes shall be through holes for both the cornice and base attachment and for shelf adjustment.

**Cornice** - On 63" and 82" high units, the cornice shall consist of a panel, a valance on each functional side, and brackets for attachment to the upright panels. The panel shall be 3/4" thick, 3-ply particleboard construction with select Grade "A" oak or maple veneer on the exposed face and any sound veneer on the underside. On 42" high units, the cornice shall consist of a panel, a valance on each functional side, and brackets for attachment to the upright panels. The panel shall be nominally 3/4" thick, 3-ply particleboard construction with  $\pm .028$ " (dependent on selection) laminate and with a backer on the underside for balanced construction. The exposed 42" and 63" edges shall be externally banded with 1/8" thick solid oak or maple and radiused 1/16". 42" cornice tops will be banded with internal solid oak edge band. The valance shall be 3/4" thick x 2" wide solid oak or maple recessed 1/8" and screwed to the panel by means of three #10 x 2-1/2 FHW screws. The panel shall be recessed 1/8" from the edge of the upright and shall be secured by means of three (two on single-face) fabricated 12 gauge steel "L" brackets with legs of 2-1/4" and 1" x 2" wide at each end secured to the cornice panel with two 8-mm x 5/16" long steel shear pins welded to the bracket and two #12 x 5/8 PHSM screws. Each bracket shall be secured to the ends by means of two M6 screws screwed into threaded inserts and one #12 x 5/8 PHSM screw. The brackets shall be secured to the intermediate panels by means of 1/4 - 20 x 2 hex head bolts, flat washers and 1/4 - 20 hex nuts.

**Base** - The base shall consist of two panels on single-face units and three panels on double-face units. The panel shall be 3/4" thick x 4" wide with select Grade "A" oak or maple veneer. Internal or back toekicks will be of particleboard construction. The base shall be recessed 5/8" from the front and secured to the upright panels by means of a fabricated "L" bracket at each end as described under "*cornice*" above.

**Adjustable and Base Shelves** - All adjustable book shelves shall be 3/4" thick solid glued-up Northern grown hardwood with no strips over 3" wide, and with a 2" wide nosing strip of select oak or maple, matching case construction. The exposed edge shall be radiused top and bottom 1/16". The shelf shall be notched at the ends to fit over shelf pins and to prevent accidental removal. The shelf pins shall be metal with a flange to prevent accidental removal of pin when shelf is in place. One adjustable shelf on each face shall serve as a base shelf.

**Plywood Back Panels** - The back panel shall be 1/4" thick, 3 or 5-ply construction having Grade "B" veneer on one face and sound back for single face units, and Grade " B " veneer on both faces for backs requiring finish on two sides. The back panels shall be set in grooves in the uprights, cornice and base rail. Backs surface applied or set in rabbets and nailed or screwed are unacceptable.

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