

## 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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**ITEM SPECIFICATIONS**

<b>DESCRIPTION:</b>	Modular Wood & Steel Shelving
<b>DIMENSIONS:</b>	See below
<b>REFERENCE NO.</b>	WORDEN Pin-Fast® Series
<b>QTY &amp; MODEL:</b>	[    ] WS-____ Initial [    ] WS-____-A Additional

<b>Model</b>	<b>Description</b>	<b>Height</b>	<b>Depth</b>	<b>Width</b>
WS-4210	Initial S.F. Book	42"	10"	37"
WS-4210-A	Additional S.F. Book	42"	10"	36"
WS-4212	Initial S.F. Book	42"	12"	37"
WS-4212-A	Additional S.F. Book	42"	12"	36"
WS-6310	Initial S.F. Book	63"	10"	37"
WS-6310-A	Additional S.F. Book	63"	10"	36"
WS-6312	Initial S.F. Book	63"	12"	37"
WS-6312-A	Additional S.F. Book	63"	12"	36"
WS-8210	Initial S.F. Book	82"	10"	37"
WS-8210-A	Additional S.F. Book	82"	10"	36"
WS-8212	Initial S.F. Book	82"	12"	37"
WS-8212-A	Additional S.F. Book	82"	12"	36"
WS-9610	Initial S.F. Book	96"	10"	37"
WS-9610-A	Additional S.F. Book	96"	10"	36"
WS-9612	Initial S.F. Book	96"	12"	37"
WS-9612-A	Additional S.F. Book	96"	12"	36"
WS-4220	Initial D.F. Book	42"	20"	37"
WS-4220-A	Additional D.F. Book	42"	20"	36"
WS-4224	Initial D.F. Book	42"	24"	37"
WS-4224-A	Additional D.F. Book	42"	24"	36"
WS-6320	Initial D.F. Book	63"	20"	37"
WS-6320-A	Additional D.F. Book	63"	20"	36"
WS-6324	Initial D.F. Book	63"	24"	37"
WS-6324-A	Additional D.F. Book	63"	24"	36"
WS-8220	Initial D.F. Book	82"	20"	37"
WS-8220-A	Additional D.F. Book	82"	20"	36"
WS-8224	Initial D.F. Book	82"	24"	37"
WS-8224-A	Additional D.F. Book	82"	24"	36"

## WORDEN PIN-FAST® SERIES

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<b>Model</b>	<b>Description</b>	<b>Height</b>	<b>Depth</b>	<b>Width</b>
WS-9620	Initial D.F. Book	96"	20"	37"
WS-9620-A	Additional D.F. Book	96"	20"	36"
WS-9624	Initial D.F. Book	96"	24"	37"
WS-9624-A	Additional D.F. Book	96"	24"	36"
WS-4212-MS	Initial S.F. Magazine	42"	12"	37"
WS-4212-MS-A	Additional S.F. Magazine	42"	12"	36"
WS-6312-MS	Initial S.F. Magazine	63"	12"	37"
WS-6312-MS-A	Additional S.F. Magazine	63"	12"	36"
WS-8212-MS	Initial S.F. Magazine	82"	12"	37"
WS-8212-MS-A	Additional S.F. Magazine	82"	12"	36"
WS-4224-MS	Initial D.F. Magazine	42"	24"	37"
WS-4224-MS-A	Additional D.F. Magazine	42"	24"	36"
WS-6324-MS	Initial D.F. Magazine	63"	24"	37"
WS-6324-MS-A	Additional D.F. Magazine	63"	24"	36"
WS-8224-MS	Initial D.F. Magazine	82"	24"	37"
WS-8224-MS-A	Additional D.F. Magazine	82"	24"	36"
WS-4212-P	Initial S.F. Picture Book	42"	12"	37"
WS-4212-P-A	Additional S.F. Picture Book	42"	12"	36"
WS-6312-P	Initial S.F. Picture Book	63"	12"	37"
WS-6312-P-A	Additional S.F. Picture Book	63"	12"	36"
WS-4224-P	Initial D.F. Picture Book	42"	24"	37"
WS-4224-P-A	Additional D.F. Picture Book	42"	24"	36"
WS-6324-P	Initial D.F. Picture Book	63"	24"	37"
WS-6324-P-A	Additional D.F. Picture Book	63"	24"	36"
WS-42-SF-F/2/S	S.F. Island	42"		
WS-63-SF-F/2/S	S.F. Island	63"		
WS-82-SF-F/2/S	S.F. Island	82"		
W-SB63	D.F. Sway Braces	63"		
W-SB82	D.F. Sway Braces	82"		
W-SB96	D.F. Sway Braces	96"		
W-3420-B	S.F. Painted Back	42"		
W-3420-B-F/2/S	D.F. Painted Back	42"		
W-3630-B	S.F. Painted Back	63"		
W-3630-B-F/2/S	D.F. Painted Back	63"		
W-3830-B	S.F. Painted Back	82"		
W-3830-B-F/2/S	D.F. Painted Back	82"		
W-3960-B	S.F. Painted Back	96"		
W-3960-B-F/2/S	D.F. Painted Back	96"		
W-N-420-B	S.F. Plywood Back	42"		
W-N-420-B-F/2/S	D.F. Plywood Back	42"		
W-N-630-B	S.F. Plywood Back	63"		
W-N-630-B-F/2/S	D.F. Plywood Back	63"		
W-N-820-B	S.F. Plywood Back	82"		
W-N-820-B-F/2/S	D.F. Plywood Back	82"		

WORDEN PIN-FAST® SERIES

Model	Description	Height	Depth	Width
W-N-960-B	S.F. Plywood Back	96"		
W-N-960-B-F/2/S	D.F. Plywood Back	96"		

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**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 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 toekick 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** - The shelves shall be 18 gauge steel designed to support 50 lbs. per square foot without deflection in excess of 3/16". The front and rear edges shall be box formed 3/4" high and returned on the underside to allow placement of wire book supports or snap-on label holders. The ends of the shelves shall be flanged and notched to receive 5-mm shelf pins. The shelves shall be electrostatically painted and baked. The shelf pins shall be metal with a flange to prevent accidental removal of pin when shelf is in place and a notch to engage the shelf. On 82" and 96" high shelving, in order to prevent deflection of the uprights, the middle shelf shall be secured by means of a metal pin which is threaded into the end and intermediate panels and notched to receive the shelf. Shelf adjustment must be preserved without defacing uprights. One adjustable shelf on each face shall serve as a base shelf.

**Pivot Type Magazine Shelf** - The magazine shelf shall be 18 gauge steel with the back edge and ends box formed 3/4" high and the front edge formed to create a retaining ledge. The shelves are slotted to engage standard shelf pins allowing shelves to be lifted for access to stored back issues. In closed position, shelf is supported at two shelf pins at the front edge.

**ADJUSTABLE PICTURE BOOK SHELF:** The picture book shelf (divider shelf) is 3/4" thick, 5-ply veneer core with a 1/2" thick, 7-ply veneer core plywood back. The front nosing on the plywood shelf bottom is banded with solid oak banding. The shelf bottom is notched along the front and rear edges and the back along the top edge at seven (7) positions where dividers may be inserted. The back piece is screwed and glued to rear edge of bottom. The adjustable divider is of 1/4" thick beige polystyrene. The bottom is routed the length of the shelf to fit over shelf pins. Each shelf assembly is provided with three (3) adjustable dividers.

**Painted Back Panels** - The back panel shall be of 1/4" thick tempered hardboard or particle board finished on the exposed face(s) with a solid color lacquer or laminated with a solid color vinyl or thermally fused laminate. 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.

**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.

**Sway Braces** - The sway braces shall be made of 5/16" thick square cold rolled steel with a black oxide finish. Sway braces shall be automatically provided on 63", 82", and 96" high double-face shelving when back panels are not ordered. A minimum of two(2) braces shall be provided for each range of shelving. The sway braces shall be installed diagonally between two intermediate uprights in the holes provided. The sway braces are bolted through the uprights with four(4) 8 - 32 x 1-3/4" truss head bolts, flat washers, and 8 - 32 hex nuts, in accordance with Uniform Building Code, to exceed the requirements of seismic zone 4 (California).

**Wall Anchor Brackets** - Wall anchor brackets shall be provided on 6'0" centers on all single-face shelving. Anchoring device (toggle bolt, lead shield, etc.) shall be determined by field conditions and are the responsibility of the installer.

**Shelf Listing** - Shelving units shall be provided with the following shelves:

- 42" high book shelving: 2 adjustable shelves and 1 base shelf per face
- 63" high book shelving: 4 adjustable shelves and 1 base shelf per face
- 82" high book shelving: 5 adjustable shelves and 1 base shelf per face
- 96" high book shelving: 6 adjustable shelves and 1 base shelf per face
- 42" high magazine shelving: 2 pivot type magazine shelves, 1 adjustable shelf, and 1 base shelf per face
- 63" high magazine shelving: 3 pivot type magazine shelves, 2 adjustable shelves, and 1 base shelf per face
- 82" high magazine shelving: 5 pivot type magazine shelves, 4 adjustable shelves, and 1 base shelf per face