

# PRODUCT SPECIFICATIONS ■

## CrossRoads® Library Furniture

December 2018

### TECHNICAL SPECIFICATIONS

#### Study Table

##### Top

Tabletop is 1 1/4" thick, particleboard core construction with .05" high-pressure laminate facer and .026" backer on the underside. All four edges are banded with a 1 1/4" thick by 2" wide solid oak or maple external knife-edge laminated to core after application of the facer laminate. The edge is beveled to a 1/4" radiused bullnose at the top. The edge band has mitered corners. The underside of the top is fitted with 3/4" x 3/4" solid wood rails screwed to the top.

##### Legs

The legs are attached to the apron using dovetail joinery, and heavy-gauge metal plate with two heavy-duty anchoring bolts. The legs are 2 1/4" square glued up face to face. All of the edges are eased with a 1/4" radius.

##### Aprons

A 3/4" thick solid oak or maple apron rail is fit between the legs on all four sides of the table. The apron is machined to have a full-length arc that is 3 7/8" high at the ends and 2" at the center. The apron rails are screwed to the underside of the top. Optional apron has straight bottom with a beveled face.

##### Glides

Each leg has a 2" diameter nylon-based adjustable leveling glide with a 1/2" threaded stem.

##### Worksurface Height

Standard height is 29". Optional 27" or 32" heights may be specified.

#### Panel Leg Table

##### Top

Tabletop is 1 1/4" thick, particleboard core construction with .05" high-pressure laminate facer and .026" backer on the underside. All four edges are banded with a 1 1/4" thick by 2" wide solid oak or maple external knife-edge laminated to core after application of the facer laminate. The edge is beveled to a 1/4" radiused bullnose at the top. The edge band is mitered at all four corners.

##### End Panels

The end panels are 1 3/16" thick, particleboard core construction with select oak or maple veneer on both faces. The vertical edges of the panel are banded with a 1.5mm thick solid oak or maple external band with a 1/32" radius on all edges. The panel has a 1/8" deep by 1/4" high vein line 4" from the bottom. The end panels are attached to the top using two 21" long, steel "L" brackets with six screws per bracket.

##### Glides

Each leg has a 1 1/4" diameter steel-base adjustable leveling glide with a 1 1/4" threaded stem.

##### Worksurface Height

Standard height is 29".

#### Study Carrels and Stand-Up Height Carrels (O.P.A.C.)

##### Top

The worksurface is 1 1/4" thick by 33 1/2" or 45 1/2" wide by 27 1/2" deep, particleboard core construction with .05" high-pressure laminate facer and .026" backer on the underside. Exposed edge is banded with a 1 1/4" thick by 2" wide solid oak or maple external knife-edge laminated to core after application of the facer laminate. The edge is beveled to a 1/4" radiused bullnose at the top. The worksurface is attached to the end panels and back with a 21" long, steel "L" bracket screwed into brass inserts in the panel and then screwed into the top of the worksurface.



## TECHNICAL SPECIFICATIONS (cont.)

### End Panels

The end panels are  $1\frac{3}{16}$ " thick, particleboard core construction with Grade A oak or maple veneer on both faces. The vertical edges of the panel are banded with a 1.5mm thick solid oak or maple external band with a  $\frac{1}{32}$ " radius. On single-face units, the back vertical edge is not edge banded but left unfinished - recommended for use against a wall. For free-standing application, a special cost request is required to finish the back vertical edge. The panels have brass inserts for mounting the worksurface at four different heights (25", 27", 29" and 32" ADA heights). The panel has a  $\frac{1}{8}$ " deep by  $\frac{1}{4}$ " high vein line 4" from the bottom. Overall end panel height is 54" with the glide extended out  $\frac{1}{2}$ ".

### Shared Panels

The intermediate panels are the same construction as the end panels; however the worksurface and shelf inserts are on both sides of the panel. Shared panels for study and stand-up carrels are machined on both sides.

### Back Panels

The back panels are  $\frac{3}{4}$ " thick, 5-ply plywood construction with Grade A oak or maple veneer on both faces. The top and bottom edges of the panel are banded with a 1.5mm thick solid oak or maple external band with a  $\frac{1}{32}$ " radius on all edges. The top edge is located  $6\frac{1}{2}$ " down from the top of the end panels and 4" up from the bottom. Back panels are attached to end panels using cam-lock fasteners. Double-faced units share  $1\frac{3}{4}$ " thick back panels.

### Shelf

The storage shelf is  $\frac{3}{4}$ " thick by  $33\frac{1}{2}$ " or  $45\frac{1}{2}$ " wide by 10" deep, plywood core construction. Both faces will be covered with select oak or maple veneers and banded on the exposed edge with 1.5mm solid oak or maple. The study carrel shelf is located 15" above the worksurface. The stand-up carrel shelf is located 26" below the worksurface. Shelf is connected to end panels with shoulder screw and insert in panel and removable connectors in shelf bottom.

### Glides

Each end and intermediate panel has a pair of  $1\frac{1}{8}$ " diameter steel-based adjustable leveling glides with a  $1\frac{1}{4}$ " threaded stem.

## Circulation Desk

### Top

Joints are secured with steel "L" brackets. Desktop is  $1\frac{1}{4}$ " thick, particleboard core construction with .05" high-pressure laminate facer and .026" thick backer on the underside.

### Cabinet Construction

The front panels are  $\frac{3}{4}$ " thick, 5-ply plywood with Grade A oak or maple veneer. All exterior faces are matched for color and grain. The side panels are  $1\frac{3}{16}$ " thick particleboard with Grade A oak or maple veneers and banded on the exposed edge with 1.5mm solid oak or maple.

### Adjustable Shelves

Adjustable storage shelves are  $\frac{3}{4}$ " thick, 5-ply plywood construction with select oak or maple veneer and banded on exposed edge with solid oak or maple. Shelves are adjustable in  $1\frac{1}{4}$ " increments and are notched at the ends over metal dowel supports.

### Hinged Doors

Doors are  $\frac{3}{4}$ " thick, MDF core construction with Grade A oak or maple veneer on both sides. All four edges are banded with solid oak or maple edge. Each door is fitted with brushed aluminum or flat black pull and lock.

### Storage Drawers

All drawer fronts are  $\frac{3}{4}$ " thick, MDF core construction with select oak or maple veneer on both sides. All four edges are banded with solid oak or maple edge. Each drawer is fitted with brushed aluminum or flat black pull and lock.

### Heights

Depending on the component, various heights are available: 27", 29", 32" and 39" may be specified.

## TECHNICAL SPECIFICATIONS (cont.)

### PowerUp® Module with 3-Prong Plug

Study tables, panel leg tables, study carrels, stand-up height computer carrels and circulation desk modules are available with grommets and PowerUp system.

The PowerUp module is a UL listed, relocatable power tap, which is a surface mounted power module with a plastic cover. When open, one duplex power receptacle and two data jack openings are exposed. The module is 3 1/4" wide by 7" long and 2 1/4" tall when opened and fits securely into a 6 1/4" x 3" cutout, still allowing removal without tools. The module is constructed of polycarbonate with a textured finish, meeting UL 94 V-0 Flame Class minimum requirements. The module has two receptacles, rated at 15 Amps/125 Volts and two locations for data connectors. Snap-in data plates hold data connectors and allow the standard module to accommodate most manufacturers. The data connectors are not supplied with the module and are purchased by the customer. The module has a dampened spring-loaded mechanism to allow the unit to open for use and close when not in use. The power receptacles open above the plane of the tabletop to avoid accidental spills into the receptacle. Data jacks remain stationary to avoid excess wear and tear on the wire connections and promote transmission of data communication. Data ports are molded to accept RJ45 jacks, but can be modified to accept various brands of jacks. The module comes standard with either a 22" or 108" cord and 3-prong plug.

For both grommets and PowerUp modules, the underside of the table is provided with a hinged plastic channel (cord management trough), which covers the bottom of the module. This channel, furnished with metal dividers, is provided for the routing of the power supply cords and data lines.

For starter and adder carrels with grommets or PowerUp modules, round cutouts in the end panels allow wires to pass through from one unit to the other. PowerUp door extrusion and vertical plastic wire manager are standard.

Cords are further managed by the vertical leg wire manager, which comes standard with grommets and the PowerUp system. Leg wireway is scuff-resistant, high-impact rigid PVC plastic, and is fastened to the leg with full-length adhesive bond.

## Shelving

### End Panel

The end panels are 1 3/16" thick, particleboard core construction with Grade A oak or maple veneer on both faces. The front vertical and top edges of the panel are banded with a 1.5mm thick solid oak or maple external band with a 1/32" radius. On single-face units, the back vertical edge is not edge banded but left unfinished - recommended for use against a wall. For free-standing application, a special cost request is required to finish the back vertical edge. The panel base has a 1/8" deep by 1/4" high vein line 4" from the bottom. Two stainless steel adjustable glides are at the bottom of each panel.

### Shared Panel

Same construction as the end panels except brass inserts are on both sides of the panel. Holes for steel pegs are machined on both sides. Adder units are attached with 5/16" through bolts and nuts.

### Top Shelf/Cornice Unit

Shelf is 3/4" thick oak or maple construction. The flush-fitting cornice rail at the face sides is 3/4" thick by 2 1/8" high solid oak or maple. Shelf is attached using 1 1/4" x 1 1/4" wood cleats with bolts and metal inserts in the end panels.

### Base

Pre-assembled box with a finished outer kick rail enables shelving to be assembled in the vertical position. Bottom shelf is set into place and positioned by using steel pegs.

### Adjustable Wood Shelves

Wood shelves are 3/4" thick solid oak or maple construction. The shelf is grooved on the underside to fit over turned and grooved steel pegs, which are inserted into holes in the end panels. Holes are spaced at 1 1/4" space intervals. Peg and groove design prevents accidental removal. The fixed middle shelf is mounted using wood cleats and screws on units 60 1/2" and higher.

## TECHNICAL SPECIFICATIONS (cont.)

### Adjustable Metal Shelves

Metal shelves are 18-gauge steel with notches on the underside to rest on turned and grooved steel pegs. Flat shelf is 1" thick and triple bent front and back edges provide superior strength and eliminate sharp edges. Book stop shelf is bent upward to form 90° angle, 1<sup>5</sup>/<sub>8</sub>" high above the shelf surface to function as a book stop. Electrostatically applied powder-coat finish. Metal shelves accept spring-type overhead wire book support. Metal shelf units are shipped with a wood base shelf.

### Periodical Shelving

End panels and top and bottom shelf assembly construction are the same as standard shelving. Adjustable shelves include 3/4" solid wood angled bracket supports and an 18-gauge steel shelf pivot bracket. A 3/4" solid wood shelf with a 1/2" x 1 1/2" stop rail is mounted at an angle of approximately 45° so that periodicals can be easily viewed. The shelf pivots and can be flipped up to lay flat for storage access below.

### Media Metal Shelving

End panels and top and bottom shelf assembly construction are the same as standard shelving. Media metal shelves are 18-gauge steel with notches on the underside to rest on turned and grooved steel pegs. Angled shelves have slots spaced 1 1/4" to accept metal partitions that can be adjusted to provide separation between displays. Electrostatically applied powder-coated finish for long term durability. Media shelf units are shipped with a wood base shelf.

### Dictionary Stand

End panels are constructed of 1<sup>3</sup>/<sub>16</sub>", particleboard core with oak or maple veneer and 1.5mm thick solid wood edge banding. The top and bottom surfaces are attached to the end panel using cam lock fasteners. The top surface is constructed of 1 1/4" particleboard core construction with a plastic laminate worksurface (customer specified). One 3/4" adjustable shelf has a 16" adjustable range using steel pins and drilled holes.

### Newspaper Display Unit

End panels are constructed of 1<sup>3</sup>/<sub>16</sub>", particleboard core with oak or maple veneer and 1.5mm thick solid wood edge banding.

### Top Shelf/Cornice Unit

Shelf is 3/4" thick, solid select oak or maple construction. The flush-fitting cornice rail at the face sides is 3/4" thick by 3 3/4" high solid oak or maple and is attached with 1 1/4" thick wood cleats and corner blocks.

### Base

Pre-assembled box has a finished outer kick rail which enables shelving to be assembled in the vertical position. Bottom shelf is set into place and positioned by stop rails attached to the bottom. Two adjustable shelves are 3/4" thick solid oak or maple construction with the front edge in select oak or maple with matching color and grain. The shelf is notched at the ends to fit over dowel pins and prevent accidental removal. Two 1" thick rails mounted on the end panels are notched to hold eight newspaper sticks at an angle for easy removal and display.

### Rolling Book Cart

All end panels and shelves are 3/4" plywood with oak or maple veneer laminate and a 1.5mm solid wood edge banding. Shelves are attached to the end panels using cam lock fasteners and solid wood dowels.

Bottom shelf is reinforced with wood cleats screwed into the shelf and end panels. Casters are two swivel and two stationary. Two cart sizes are available. The 29<sup>7</sup>/<sub>8</sub>" wide by 36<sup>11</sup>/<sub>64</sub>" high by 14 1/2" deep comes with two shelves which have clearance heights of 13" and 11 1/4". The 39<sup>7</sup>/<sub>8</sub>" wide by 43<sup>17</sup>/<sub>32</sub>" high by 14 1/2" deep comes with two shelves which both have clearance heights of 14<sup>5</sup>/<sub>16</sub>".

### Rolling Book Cart with Slanted Shelves

All end panels and shelves are 3/4" plywood with oak or maple veneer laminate and a 1.5mm solid wood edge banding. Shelves are attached to the end panels using cam lock fasteners and solid wood dowels. Bottom shelf is reinforced with wood cleats screwed into the shelf and end panels. Casters are two swivel and two stationary. Two cart sizes are available. The 29<sup>7</sup>/<sub>8</sub>" wide by 38<sup>13</sup>/<sub>16</sub>" high by 14 1/2" deep comes with two shelves slanted inward with slanted shelf backs, which have clearance heights of 8<sup>7</sup>/<sub>8</sub>" and 11<sup>7</sup>/<sub>16</sub>". The 39<sup>7</sup>/<sub>8</sub>" wide by 44<sup>51</sup>/<sub>64</sub>" high by 14 1/2" deep with two shelves slanted inward with slanted shelf backs, which have clearance heights of 8<sup>7</sup>/<sub>8</sub>" and 17<sup>7</sup>/<sub>16</sub>".

## TECHNICAL SPECIFICATIONS (cont.)

### CrossRoads Chair - 4-Leg

#### Back Posts

Back posts are made of five 4" stock, steam bent to shape and finished to 1" thickness.

#### Side Rails

Side rails are made of four 4" stock, finished to  $\frac{13}{16}$ " thickness by 2" wide and double doweled to the front and back posts using  $\frac{3}{8}$ " x 2" dowels.

#### Side Stretchers

Side stretchers are made of four 4" stock, finished to  $\frac{13}{16}$ " x  $\frac{13}{16}$ ". The stretchers are fastened to the front and back posts using  $\frac{9}{16}$ " chucks with each joint pinned to further reinforce the joint.

#### Top Slat

The top slat is made of four 4" stock, finished to  $\frac{3}{16}$ " thickness and steam bent to a 24" radius. The top slat is shaped to form and double doweled to the back posts using  $\frac{3}{8}$ " x  $1\frac{1}{2}$ " dowels.

#### Bottom Slat

The bottom slat is made of four 4" stock, steam bent to a 24" radius, finished to  $\frac{13}{16}$ " thickness by  $3\frac{3}{8}$ " wide and double doweled to the back posts using  $\frac{3}{8}$ " x  $1\frac{1}{2}$ " dowels.

#### Banisters

Banisters is made of six 4" stock, finished to  $\frac{3}{8}$ " thickness by 1" wide, steam bent to shape and mortised into the top and bottom slats.

#### Front Rail

The front rail is made of four 4" stock, finished to  $\frac{13}{16}$ " thickness by 2" wide and double doweled to the front posts using  $\frac{3}{8}$ " x 2" dowels.

#### Cross Stretchers

Cross stretchers are made of four 4" stock, finished to  $\frac{13}{16}$ " x  $\frac{13}{16}$ " and fastened to the side stretchers using  $\frac{9}{16}$ " chucks with each joint pinned to further reinforce the joint.

#### Wood Seat

Seats are made of five  $5\frac{1}{4}$ " stock, surfaced to  $\frac{13}{16}$ " thickness prior to being defect ripped on a straight-line rip saw. Individual seat pieces will not exceed  $3\frac{1}{2}$ " wide. Seat stock will be mechanically glued to ensure uniform coating of polyvinyl acetate emulsion glue prior to being clamped using a pneumatic torque drive to ensure proper pressure on glue joints. Seat blanks will be double surfaced prior to shaping to form and saddling. Seat is ganged into bottom slat and fastened to each back post by one #12 x  $2\frac{1}{4}$ " tapping screw concealed by a wood button. Two #12 x 2" tapping screws secure the seat to the front rail and one #12 x 2" tapping screw to secure the seat to each side rail.

#### Corner Blocks

Corner blocks further reinforce the frame and are glued and screwed in place. Two #10 x  $1\frac{1}{4}$ " twinfast screws and one #12 x  $2\frac{1}{4}$ " tapping screw secure each block to the frame.

#### Glue

Polyvinyl alcohol ester blend with polyvinyl acetate is the glue used in the final chair assembly.

#### Glides

$\frac{7}{8}$ " diameter rubber cushion, chrome-plated glides are standard.

## DIMENSIONS

CrossRoad Armless Wood Chair Dimensions (Non-Upholstered)(CRCHR)			
Seat Height	14"	16"	18"
Sitting Depth	15"	15"	15"
Overall Depth	18 <sup>1</sup> / <sub>4</sub> "	19 <sup>3</sup> / <sub>4</sub> "	18"
Overall Width	16 <sup>1</sup> / <sub>2</sub> "	17"	18"
Overall Height	29"	31"	35"
Grade Level Use	K-2	2-4	4-Adult
Weight	29#	32#	35#

CrossRoad Armless Wood Chair Dimensions (Upholstered)(CRCHRU)			
Seat Height	15 <sup>1</sup> / <sub>2</sub> "	17 <sup>1</sup> / <sub>2</sub> "	19 <sup>1</sup> / <sub>2</sub> "
Sitting Depth	15"	15"	15"
Overall Depth	18 <sup>1</sup> / <sub>4</sub> "	19 <sup>3</sup> / <sub>4</sub> "	18"
Overall Width	16 <sup>1</sup> / <sub>2</sub> "	17"	18"
Overall Height	29"	31"	35"
Grade Level Use	K-4	4-Adult	5-Adult
Weight	31#	34#	37#

CrossRoad Wood Chair with Arms Dimensions (Non-Upholstered) (CRCHRA)	
Seat Height	18"
Sitting Depth	17 <sup>1</sup> / <sub>2</sub> "
Overall Depth	22 <sup>1</sup> / <sub>2</sub> "
Overall Width	23 <sup>1</sup> / <sub>2</sub> "
Overall Height	35"
Grade Level Use	4-Adult
Weight	45#

CrossRoad Wood Chair with Arms Dimensions (Upholstered) (CRCHRAU)	
Seat Height	19 <sup>1</sup> / <sub>2</sub> "
Sitting Depth	17 <sup>1</sup> / <sub>2</sub> "
Overall Depth	22 <sup>1</sup> / <sub>2</sub> "
Overall Width	23 <sup>1</sup> / <sub>2</sub> "
Overall Height	35"
Grade Level Use	4-Adult
Weight	47#