TECHNICAL SPECIFICATIONS

Storage Tower Modules

Shell
All Terrain Binder Tower shell is constructed of components consisting of top, top reinforcements, bottom, wrapper (sides and back), interior side panels, bottom reinforcements. The binder tower shell is spot-welded and MIG-welded together.

The top is 18-gauge cold rolled steel (C.R.S.) with \(\frac{3}{4}\)" flanges on all four sides. The front face has an additional flange formed inward to provide additional strength. Two top 20-gauge reinforcements are welded in along each side of the top. The reinforcements are punched to allow mounting of the pencil drawer.

The wrapper is formed 20-gauge C.R.S. The wrapper is formed with \(\frac{3}{4}\)" flanges along the two vertical sides. An additional flange is formed in for additional strength and accepts the interior side panels. The upper edges are offset formed to accept the \(\frac{3}{4}\)" top flange. The bottom edges are formed with a \(\frac{3}{4}\)" flange to accept the binder tower bottom.

The bottom is formed 18-gauge C.R.S. with \(\frac{3}{4}\)" flanges on all four sides. The front face has an additional flange formed inward to provide additional strength. Two bottom 16-gauge reinforcements are welded in along each side of the bottom. The bottom reinforcements are made with eight \(\frac{1}{4}\)-20 threaded weldnuts that accept plate mount or outrigger mount casters.

The interior side panels are made from formed 20-gauge C.R.S. They fill up the interior left and right side of the binder tower. The front of the upright is offset formed to fit inside the channel form of the wrapper. The rear edge has \(\frac{3}{4}\)" flange for strength. The uprights are MIG welded internally at each end, top and bottom. The welding provides a rugged shell design. The liners are punched with 1" long slots on a 1" increment pattern to hang the shelf supports. The liners are also punched to mount the drawer suspensions.

Drawers
Drawer fronts are fabricated from 18-gauge, are hemmed at the top, and have a \(\frac{3}{4}\)" flange at the bottom for welding to the drawer body. The front is punched to receive a 1.5" diameter rubber grommet pull.

The drawer back is formed from 20-gauge C.R.S. and is hemmed along the top edge. The back is spot welded to the drawer body.

The drawer body is formed from 20-gauge and is hemmed along the top edges. It is spot welded to the drawer back and drawer front. The drawer body is sized to allow for hanging of Legal Sized hanging file folders. The sides of the drawer are punched to allow the mounting of hanger bars. The hanger bars allow for hanging of Letter sized hanging file folders and All Terrain hard bins. A second set of punched holes accounts for mounting of the hanger bar that allows for hanging of A4 sized hanging file folders.

Drawer Suspension
The 3-piece suspension assembly allows for the drawer body to extend clear of the front face of the binder tower. The roll-formed precision sections operate on hardened steel ball bearings per slide. The suspension has a "hold-in" or retaining device to hold the drawer in a closed position.
TECHNICAL SPECIFICATIONS (cont.)

Doors
The Plexiglas door is constructed from 1/4" thick frosted white polycarbonate. The edges are finished with a rounded edge. The door's pull is machined into the door. The Plexiglas door utilizes a 270° hinge.

The steel door is constructed from the outer door body and the inner door liner. The door body is constructed from 20-gauge formed steel. A 3/4" flange is formed on all edges and the pull edge has an additional flange formed inward to accept the liner and provide strength. The liner is formed from 20-gauge steel and is spot welded to the door body. The binder tower steel door is specified with one of the five pull options (see below). The steel door is standard with a lock. The steel door utilizes the 270° hinge.

The laminate door is constructed from .03" HPL laminate front and 0.028" HPL laminate back and on the edges. Core material is particle board. The laminate door is constructed to a finished thickness of 3/4". The binder tower laminate door is specified with one of the three pull options (see below). The laminate door is standard with a lock. The laminate door utilizes the 270° hinge.

Door Pulls
The metric pull is made from aluminum. It mounts by use of two machine screws to a steel or laminate door. It is available in an aluminum finish.

The bow tie pull is made from aluminum or nickel. It mounts by use of two machine screws to a steel or laminate door. It is available in a nickel or aluminum finish.

The beveled pull is made from black or satin chrome. It mounts by use of two machine screws to a steel door.

Hinges
Hinges on binder towers allow the door rotate all the way around and to wrap against the side of the cabinet (a range of 270°). Door hinges on binder towers are the same on all door styles.

Landing Pads/Tops
The landing pad worksurface is supported above the binder tower surface. Top worksurfaces are mounted directly to the top of the binder tower. Tops are fastened through the top of the binder tower shell by 1/4-20 machine screws. Landing pads are supported above and fastened to the top of the binder tower shell by four 10 machine screws that pass through four aluminum extrusions that support the landing pad. Binder towers with the landing pad option may be ordered with lectern (slanted) tops or flat tops. They are also offered in bowed or shaped tops.

The laminate landing pads and tops are constructed from .03" HPL laminate on top and a 0.028" melamine sheet backer on the bottom. 2 mm thick PVC banding is applied to the edges. Core material is particle board. The laminate landing pad/top is constructed to a finished thickness of 3/4". 1/4-20 threaded inserts allow for mounting to the binder tower and are attached using #10 screws.

Casters
The binder towers are specified with either inboard plate mount casters or outriggered stem mount casters. All caster bodies are twin wheel "hooded" design with 3" diameter wheels. Caster configuration: four casters (two lock), two casters & two glides, four glides. Casters will be black with white wheel hubs. Glides are black polycarbonate with a white bottom pad, assembled on a self-telescoping segment to maintain aesthetic appeal while adjusting height.

Plate mount casters do not extend out from below the binder tower shell. The plate is mounted to the bottom of the shell by four 1/4-20 machine screws fastened to the weldnuts.

The outriggers are made by an aluminum casting process. The outriggers are mounted to the bottom of the shell by four 1/4-20 machine screws fastened to the weldnuts. The outriggers on binder towers hold the caster stems perpendicular to the floor. The caster stem is threaded in to the outrigger and holds the caster body. The outrigger mounts extend the caster out from the shell body providing a more stable base for the binder tower.
TECHNICAL SPECIFICATIONS (cont.)

Shelf and Supports
The shelf is formed from 20-gauge C.R.S. with \( \frac{3}{4} \)" flanges front and back. The front and back faces have an additional flange formed inward \( \frac{5}{8} \)" and another flange \( \frac{1}{4} \)" formed upwards to provide additional strength. The shelf support is formed from 18-gauge steel and supports the shelf along the full length of the left and right sides of the shelf. The shelves move up and down the interior of the binder tower in 1" increments.

Binders
The storage of binders inside the binder tower is accomplished by the use of shelves.

Pencil Drawer
The pencil drawer is mounted to the underside of the top of the shell. The tray is black vacuum molded polystyrene sheet, The tray extends on a 2-piece suspension assembly.

Bins
All Terrain hard bins hang in binder tower drawers with hanger bars, they can hang from the bin hanging slot (see below) or they can rest on the shelves and landing pad top.

Bin Hanging Slot
A slot is punched on both sides of the binder tower shell. The slot is finished with a clear translucent RPVC extrusion to allow for the hanging of All Terrain hard bins.

Finish
Units are cleaned thoroughly and subjected to a phosphate etching process before painting with a hybrid epoxy powder-coat paint.

Locks
Locks are standard with this product and feature a high-security double-bit design, keyed different and core removable. There are 1000 different key combinations possible. The locks have an antique black finish. Two KI "break away" keys are standard with each lock.

Sizes
Width: 18", 21\( \frac{1}{8} \)" and 22"  
 Depths: 19\( \frac{1}{8} \)" and 44\( \frac{1}{32} \)"  
 Heights: 18\( \frac{1}{2} \)", 18\( \frac{3}{4} \)" and 19\( \frac{1}{16} \)"