TRANSITIONS

INSTALLATION GUIDE

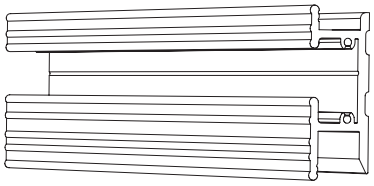
media technologies™

TRANSITIONS

INSTALLATION GUIDE

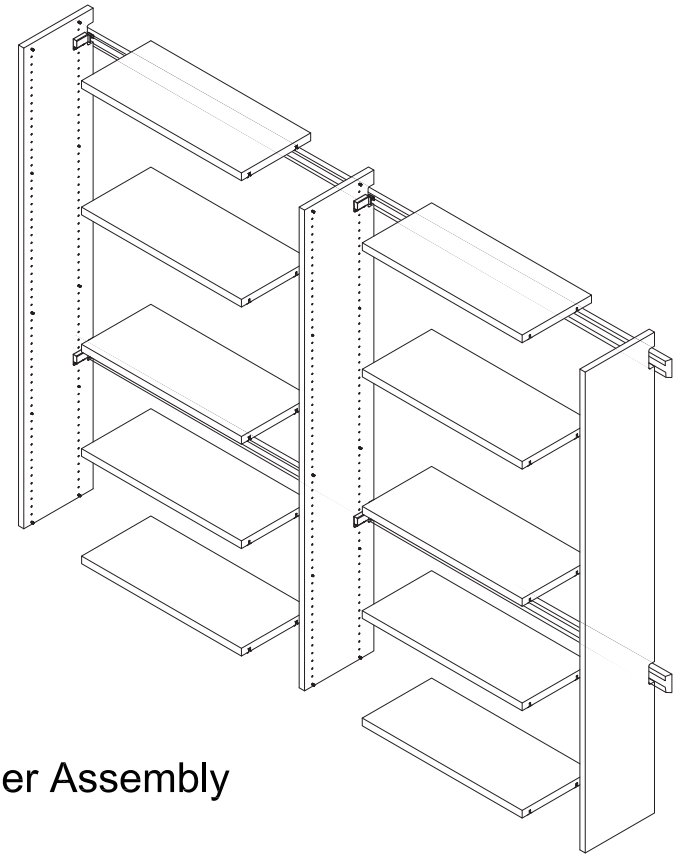
Tools Required:

- Level (4 foot or greater)
- Chalk Line
- Nylon String
- Variable Speed Drill
- Hacksaw/Chop Saw Non ferris blade
- Drill Bits
- (1/2" Drill bit #2, #3 Phillps bit)
- Tape Measure
- Screw Drivers
- Hammer Drill (for poured concrete or block wall)



elements
by mediatechnologies®

Horizontal Mounting Track



Starter/Adder Assembly

TRANSITIONS

INSTALLATION GUIDE

Horizontal Mounting Track

Figure A

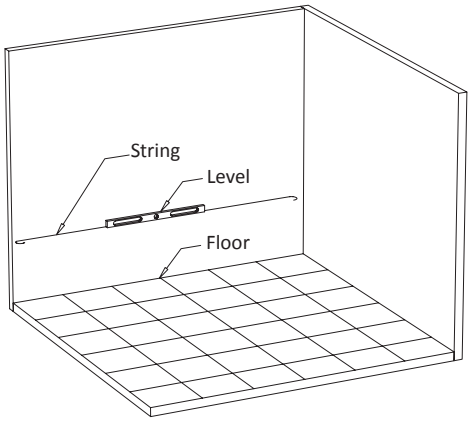
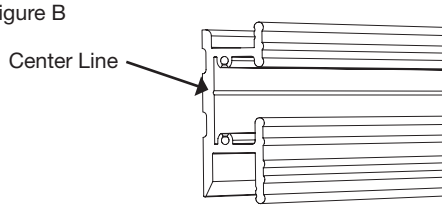


Figure B



Mount the Track

Several products are designed for the lower track. These products are mounted at 29" off of the floor.

a. Determine the high spot of your floor using level or transit.

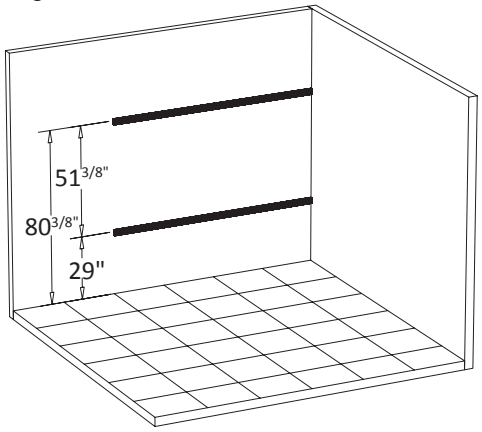
b. Indicate a point on the wall 29" up from the high spot of the floor.

c. Place a string along the wall where the lower track is being installed (Figure A).

It is important that the string is tight and level for proper clearance of other components. Mark the location of string at each end. Snap chalk line using the two points defined above.

d. The center line of the lower track (Figure B) must be placed at 29"H line when mounting the track.

Figure C



a. The center line for the upper track will be 51-3/8" above the center line of the lower track.

b. Measure up from the lower track line and place a mark at each end.

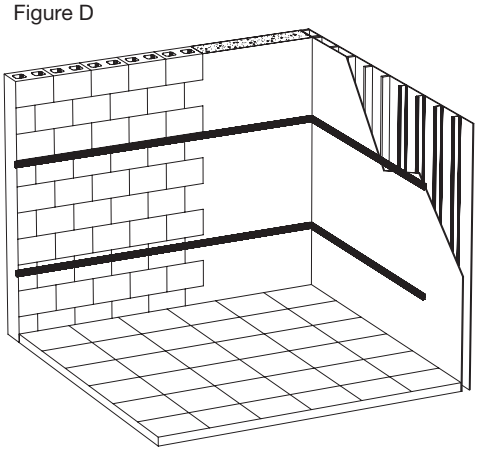
c. Snap a chalk line using the two points defined above (Figure C).

d. The center line of the upper track (See Figure B) must be placed on the 51-3/8" line when mounting the track.

Disclaimer: mediatechnologies provides mounting hardware for your installation based on information provided at the time of order. The correct installation of the horizontal mounting track to the facility wall is the responsibility of the installer. mediatechnologies is not responsible for any issues or damage resulting from incorrect information provided at the time of order, the use of hardware other than that provided by mediatechnologies and/or incorrect installation of the horizontal mounting track.

Horizontal Mounting Track

Figure D



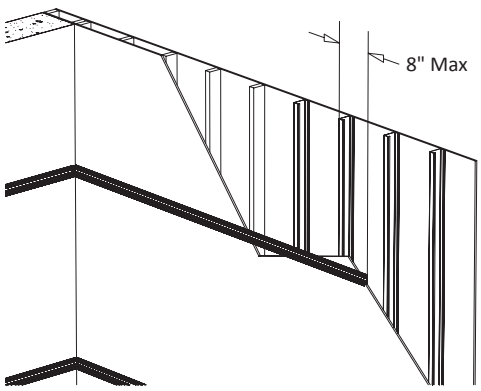
a. Locate the wall substructure along the fastener location chalk lines.

For proper attachment of track to the wall, fasteners must tie directly into the substructure of the wall (studs, blocks, solid masonry) (Figure D). Select the appropriate fasteners for type of structural wall.

A structural wall is a defined as a load-bearing wall constructed of materials such as: poured concrete, concrete block, or studs. Wood studs must be a nominal 2" x 4" size minimum. Metal studs must be "C" channel, 20-gauge thick minimum.

Metal or wood studs must be on centers no greater than 16" and have maximum heights of 10' restrained at floor and ceiling. Interior walls shall be designed to resist not less than a force of 5 lbs. per square foot applied perpendicular to wall. The deflection of such walls under a load of 5 lbs. per square foot shall not exceed 1⁄400th of the span for walls with brittle finishes, and 1⁄124th of the span for walls with flexible finishes. If you have any questions concerning your load-bearing structures, please consult your architect or structural engineer.

Figure E



Starting in the corners of the room:

a. Prepare wall for track attachment by pre-drilling for and/or installing fasteners along chalk lines per the fastener manufacturer's guidelines.

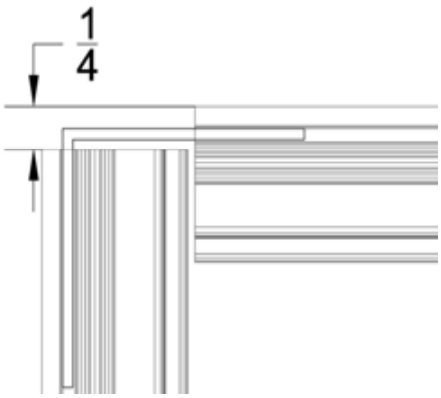
b. Spacing of fasteners should not exceed 16" on center.

c. When ending a run, extend the track more than 8" beyond the last anchor attachment (Figure E).

d. Measure wall length at the upper and lower marked fastener positions.

Horizontal Mounting Track

Figure F



Cut the track, when necessary, to the proper lengths.

A single section of track must attach to the wall with a minimum of two solid anchor attachment points. If the track is installed at intersecting walls, allow for the installation of the Splice Plate. Install Splice Plate prior to attaching track to the wall. The first length of track installed will be reduced by 1⁄4" at each intersection (Figure F).

Figure G

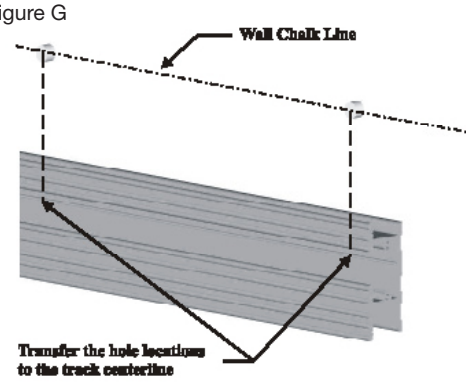
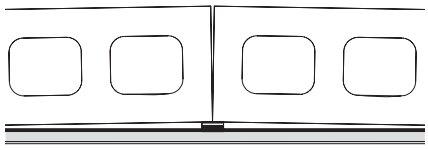
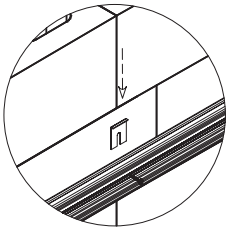


Figure H





a. Position the track against the wall just below the chalk line (Figure G). Transfer the fastener locations from the wall to the center line in the track.

b. Drill the appropriate diameter hole in the track per the fastener manufacturer's guidelines.

Note: Tracks must be straight, level and parallel. Insure tracks do not "bow". Check for any gaps between the wall and the track and use spacers when necessary to shim between the wall and the track at attachment point(s) (Figure H).

It is the responsibility of the installer and/or the contractor to select and install the proper fasteners in the structural wall. mediatechnologies® does not furnish fasteners or assume liability for their use.

c. Before installing the track, touch-up any exposed cut ends. Remove any sharp edges or burrs caused by cutting or drilling the track.

Horizontal Mounting Track

Figure I

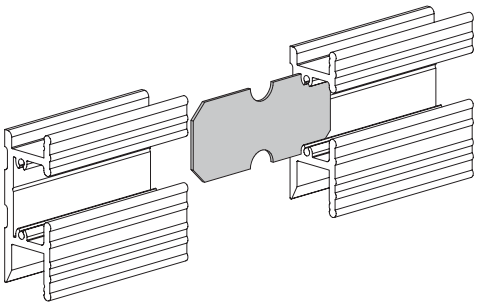


Figure J

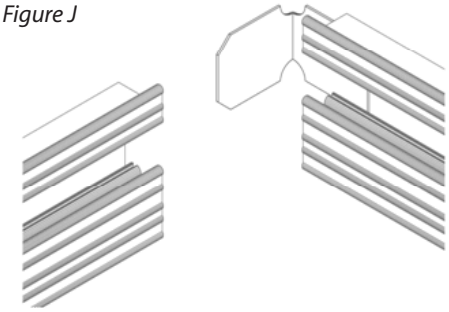
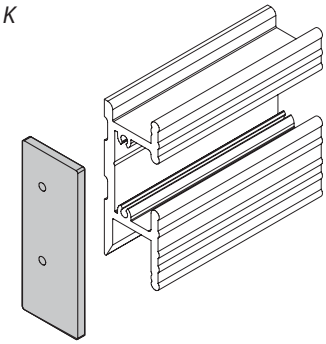


Figure K



a. With the Splice Plate installed where required, attach the track to the wall.

To align two adjacent pieces of track, slide a Splice Plate into the channel at the back of the track. Offset the “U” in the splice plate with the seam between the tracks (Figure I).

To align two adjacent pieces of the horizontal mounting track at a corner intersection, bend the Splice Plate to the required angle at the notch provided (Figure J).

b. Check frequently to assure that the track is mounted at the correct
elevations and that it is fastened securely to the wall using the proper fasteners.

c. Fasteners should be tightened according to the manufacturer’s specifications.

d. On exposed track ends install End Caps (Figure K) using screws provided.

TRANSITIONS

INSTALLATION GUIDE

Fastener Recommendations

Tools Required:

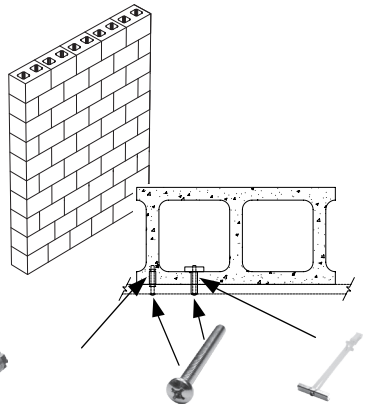
- 1/2" Drill Masonary Bit

Notice: elements by mediatechnologies® track require 6 fasteners per 96" section. Recommend fasteners for wall types listed below.



Do Not Use Tapcons

Wall - Block concrete

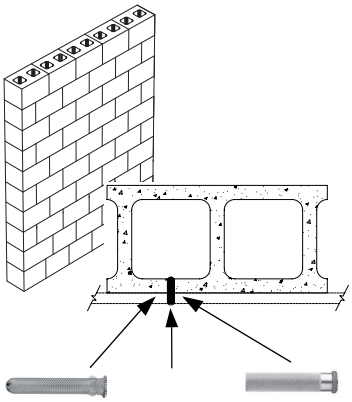


HTDEA-1.25
Anchor Bolt
Double Expansion
1/4" - 20 x 1-1/4"
for use with
solid blocks

HTAB
Anchor Bolt
HTAB-1.5...1/4"-20 x 1-1/2"
HTAB-2.5...1/4"-20 x 2-1/2"
HTAB-3.....1/4"-20 x 3"

HTDST
Toggler Anchor
1/4" - 20 x 2"
for use with
void in blocks

Wall - Soft Block, Clay Tile or Brick with Holes

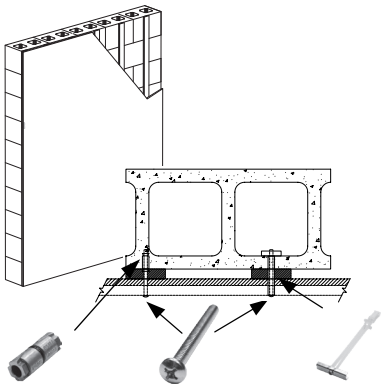


HIT-S
Screen Tube
5/16"x2

HIT-5/16"
Grade A 5/16"
x 2" Machine
Screw

HIT-IG
Insert
Anchoring
System
5/16"x2

Wall example -Block with furring strips Try to hit furring strips

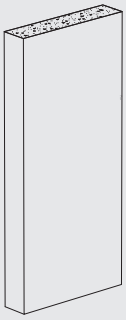


HTDEA-1.25
Anchor Bolt
Double Expansion
1/4" - 20 x 1-1/4"
for use with
solid blocks

HTAB
Anchor Bolt
HTAB-2.5...1/4"-20 x 2-1/2"
HTAB-3.....1/4"-20 x 3"

HTDST
Toggler Anchor
1/4" - 20 x 2"
for use with
void in blocks

Wall - Poured cement





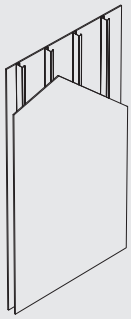
HTDEA-1.25
Anchor Bolt
Double
Expansion
1/4" - 20 x 1-1/4"
for use with blocks



HTAB
Anchor Bolt

HTAB-1.5	1/4"-20 x 1-1/2"
HTAB-2.5	1/4"-20 x 2-1/2"
HTAB-3	1/4"-20 x 3"

Wall - Steel studs with drywall





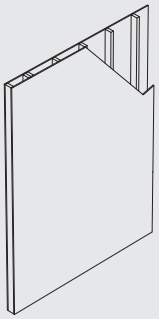
HTDST
Toggler Anchor
1/4" - 20 x 2"
for use with steel studs



HTAB
Anchor Bolt

HTAB-1.5	1/4"-20 x 1-1/2"
HTAB-2.5	1/4"-20 x 2-1/2"
HTAB-3	1/4"-20 x 3"

Wall - Wood studs with drywall





HTWS-2
Horizontal Mounting
Track #12 Screw
#12 x 2" wood screw
for use wood studs

For proper attachment of track to the wall, fasteners must tie directly into the substructure of the wall (studs, blocks, solid masonry) Select the appropriate fasteners for type of structural wall. A structural wall is a defined as a load-bearing wall constructed of materials such as: poured concrete, concrete block, or studs. Wood studs must be a nominal 2" x 4" size minimum. Metal studs must be "C" channel, 20-gauge thick minimum. Metal or wood studs must be on centers no greater than 16" and have maximum heights of 10' restrained at floor and ceiling. Interior walls shall be designed to resist not less than a force of 5 lbs. per square foot applied perpendicular to wall. The deflection of such walls under a load of 5 lbs. per square foot shall not exceed 1/400th of the span for walls with brittle finishes, and 1/124th of the span for walls with flexible finishes. If you have any questions concerning your load-bearing structures, please consult your architect or structural engineer.

Recommended Fasteners			
Construction Type	Size	Manufactures Model #	Our Model #
Steel Stud -for 1/2" to 3/4" drywall			
BB Toggler (1/4" -20) Snaptoggle ® Pkg of 10 (Use with 1/4" - 20 x 2 1/2" bolts)	1/4"-20	43321	HTDST
Wood Stud- for 1/4" to 5/8" drywall (meets or exceeds ANSI/ASME B18.6.4 and SAE J933)			
Panhead sheet metal screw	#12 x 2"	PHPMS	HTWS-2
Solid Masonry			
Double Expansion Anchor Bolt Powers ® Fasteners Pkg of 50 (Use with 1/4" - 20 x 1 1/4" bolts)	1/4"-20	9510	HTDEA-1.25
Masonry Block			
BB Toggler (1/4" -20) Snaptoggle ® Pkg of 10 (Use with 1/4" - 20 x 2 1/2" bolts)	1/4"-20	43321	HTDST
Double Expansion Anchor Bolt Powers ® Fasteners Pkg of 50 (Use with 1/4" - 20 x 1 1/4" bolts)	1/4"-20	9510	HTDEA-1.25
Hilti® Anchor System For Masonry Construction - Soft Brick, Block or Tile - HIT S 16 Screen Tube Pkg of 10 - HIT IG Insert pkg of 10 -Grade 5- 5/16"x2 Machine Screw -HIT-HY 20 Masonry Adhesive- 1 tube	 3 3/8" 5/16" x 2 5/16" x 2 11.1 oz	 00077810 00088397 00371959	 HIT-S HIT-IG HIT-5/16" HIT-HY 20
Anchor Bolts			
Anchor Bolt- 1.5 Anchor Bolt- 2.5 Anchor Bolt- 3	1/4"-20x1-1/2" 1/4"-20x2-1/2" 1/4"-20x3"		HTAB-1.5 HTAB-2.5 HTAB-3

Installation Fasteners:
These are general recommendations for installation fasteners. Since actual conditions vary, the final determination for the appropriate fastener will need to be made in the field.

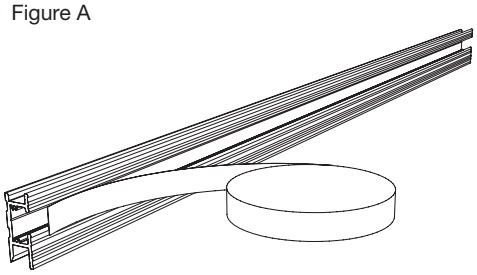
Installation Note: For Double Expansion Anchor Bolt
Threaded ends must be inserted first into wall.

Fastener Concealment

Tools Required:

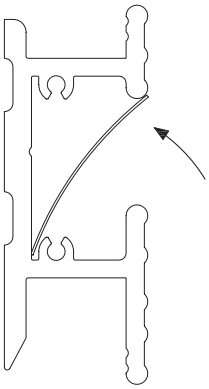
- Securely Mounted Track
- Fastener Concealment Vinyl
- Scissors

Figure A



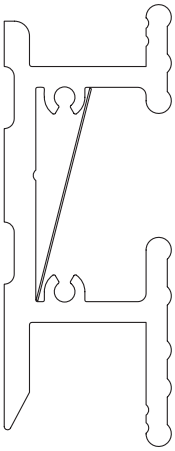
Step 1 - Unroll fastener concealment vinyl and cut to required length with scissors. See Figure A.

Figure B



Step 2 - Slide the bottom edge of the fastener concealment vinyl into the screw channel located in the center of the bottom horizontal mounting track along the entire length of the horizontal mounting track. See Figure B.

Figure C



Step 3 - Gently push the top edge of the fastener concealment vinyl behind the top lip of the horizontal mounting track. See Figure C.

Mount the Cabinet Hangers & Cam Studs to the End Panels

Tools Required:
- Phillips Screwdriver

Before you begin:

Cabinet Hangers
Tall shelf units that are 84" tall will be fastened to both the upper and lower tracks. They will require two cabinet hangers on each end panel and 4 cabinet hangers (2 per side) on each adder panel.

Tall and Base shelf units that are 60", 48" and 36" tall will be fastened to the lower track only. They will require one cabinet hanger on each end panel and 2 cabinet hangers (1 per side) on each adder panel.

Upper shelf units (30" and 15") will be fastened to the upper track only. They will require one cabinet hanger on each end panel and 2 cabinet hangers (1 per side) on each adder panel.

Cam Studs
Cam studs are to be placed at the locations of fixed position shelves. For structural integrity, place the fixed shelves at the top and bottom of each shelving unit. 60" and 84" units have 3 fixed shelved. The third fixed position shelf should be located in the middle of the unit.

The table below indicates how many fixed position and adjustable shelves come with each size unit.

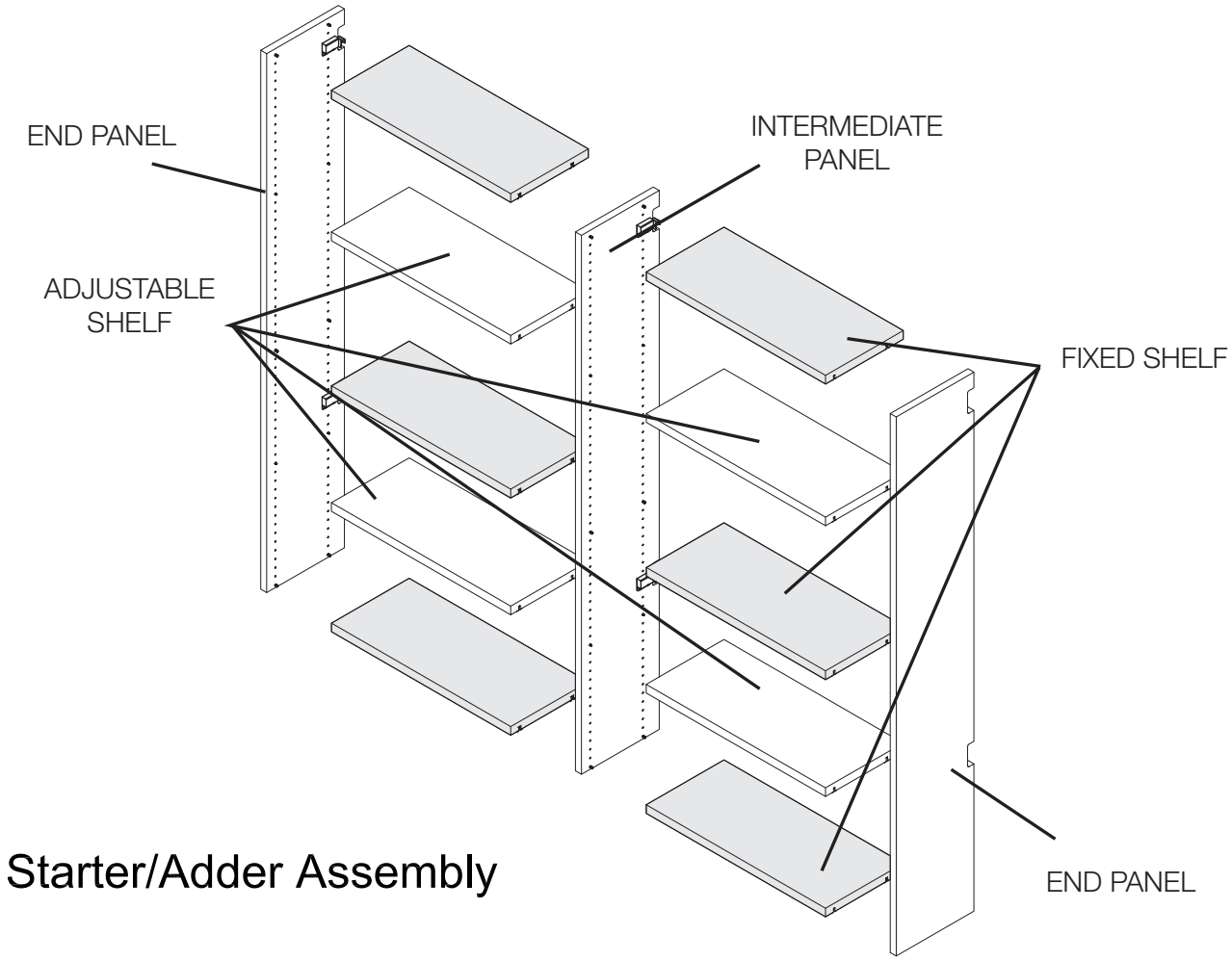
a. Lay the left hand end panel on the floor or flat surface with the pre-drilled mounting holes facing up. (Figure L.) (Make sure the floor or surface is covered with a material that will not scratch or mar the finish on your panels).

Table A

Upper	Height	Fixed Shelves	Adjustable Shelves
	15"	2	0
	30"	2	1
Base	**Height**	**Fixed Shelves**	**Adjustable Shelves**
	36"	2	1
	48"	2	2
Tall	**Height**	**Fixed Shelves**	**Adjustable Shelves**
	60"	3	2
	84"	3	4

Mount Cabinet Hangers & Cam Studs

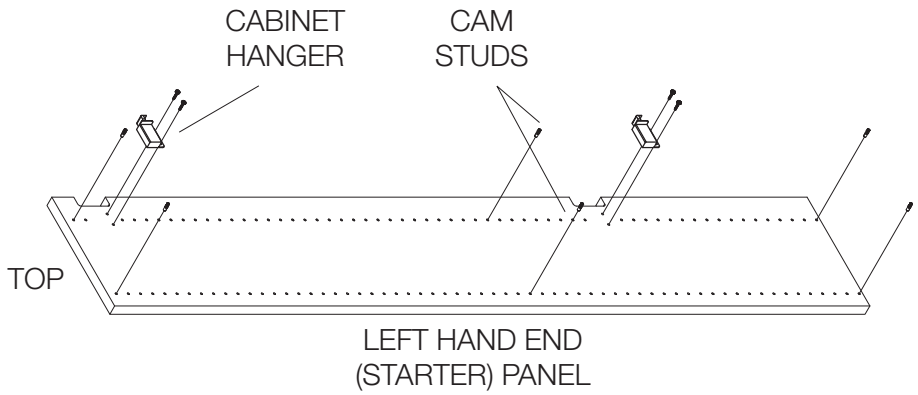
Figure L



Starter/Adder Assembly

Mount Cabinet Hangers & Cam Studs

Figure M



b. Mount cabinet hangers in the pre-drilled mounting holes in the end panels at the locations shown. Note that the mounting screws are located beneath the cabinet hanger when mounted correctly. (Figure O).

c. Make sure the lip of the cabinet hanger clip is extended out far enough to catch the track. If not loosend the clip screw using phillips screwdriver.

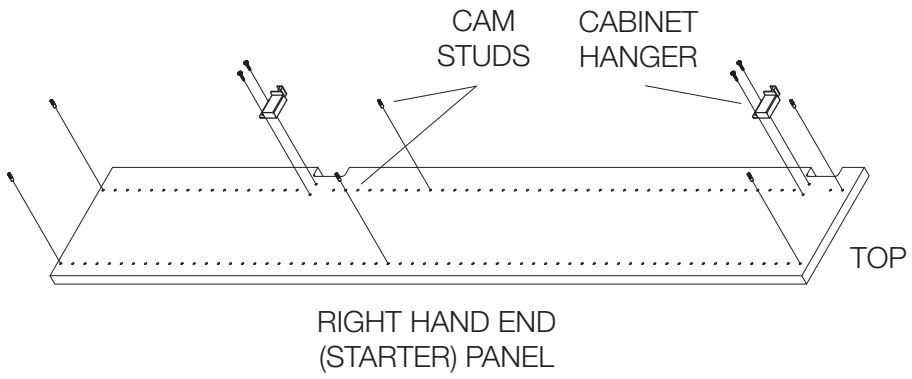
d. Screw cam studs into pre drilled holes in top and bottom of end panels as shown. (Figure P). If your unit has a third fixed position shelf, screw cam studs into the desired location near the middle of the unit.
e. Repeat "a" thru "d" for right hand end panel. Make sure you locate the cam studs for the third fixed shelf in the same location.

If your shelving consists of more than a single unit, you will need to mount cabinet hangers and cam studs to your intermediate (Adder) panels.

Intermediate panels receive cabinet hangers and cam studs on both sides.

Follow the installations steps "a" through "e" for each side of each intermediate panel that you have.

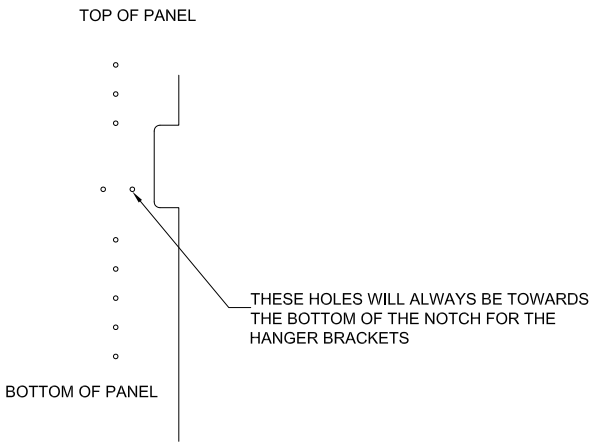
Figure N



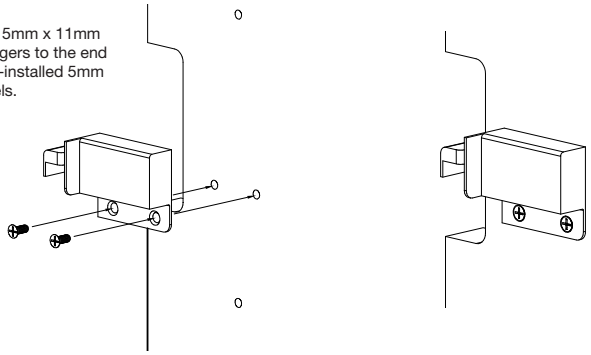
Mount Cabinet Hangers & Cam Studs

How to determine the TOP of the vertical panels

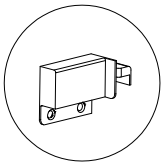
Figure O



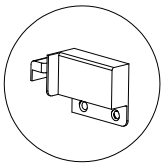
Use Zinc Euro Screw 5mm x 11mm to attach cabinet hangers to the end panel. Inserts are pre-installed 5mm holes in the end panels.



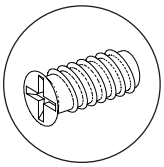
Parts required to mount cabinet hangers



Left Hanger Bracket
900-000005-000

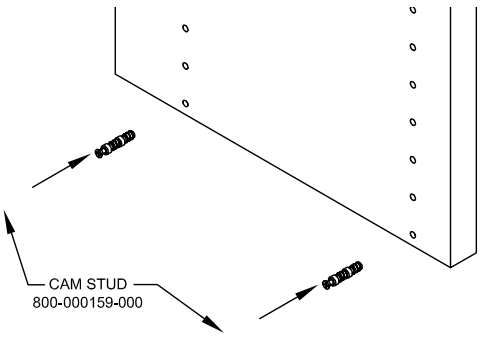


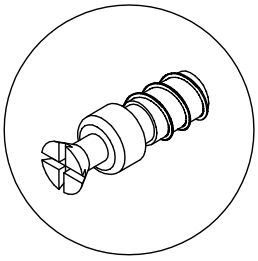
Right Hanger Bracket
900-000006-000



Zinc Euro Screw
5mm x 11mm

Figure P





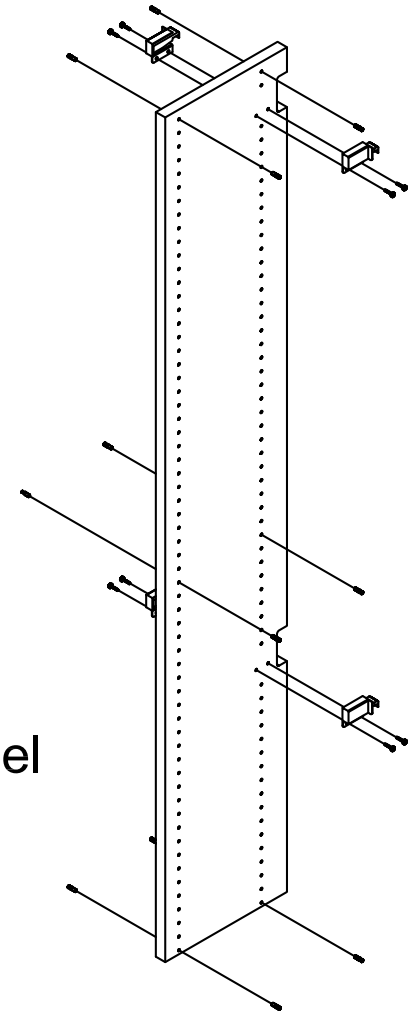
CAM STUD
800-000159-000

Mount Cabinet Hangers & Cam Studs

If your shelving consists of more than a single unit, you will need to mount cabinet hangers and cam studs to your intermediate (Added) panels.

Intermediate panels receive cabinet hangers and cam studs on both sides.

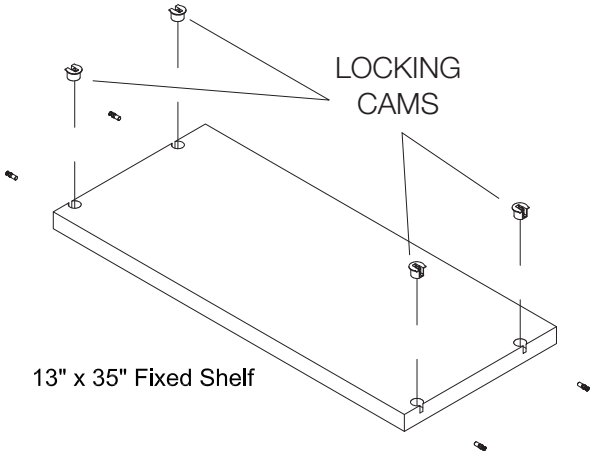
Follow the installation steps "a" through "e" for each side of each intermediate panel that you have.

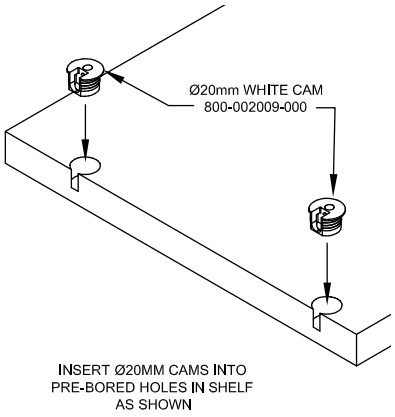


Adder Panel

Mount Cams to Shelves

Tools Required:
- Rubber Mallet



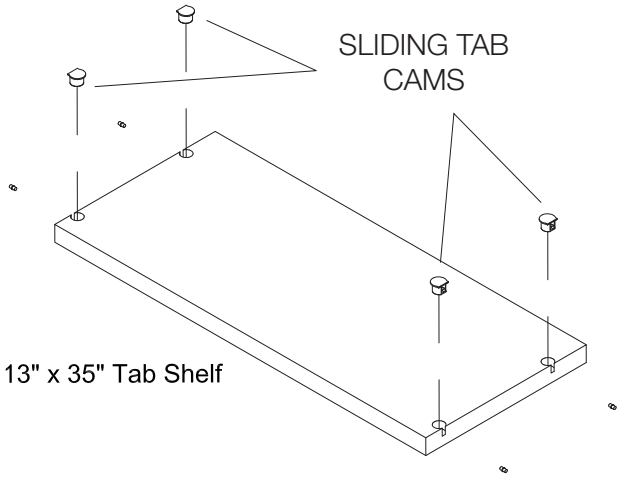


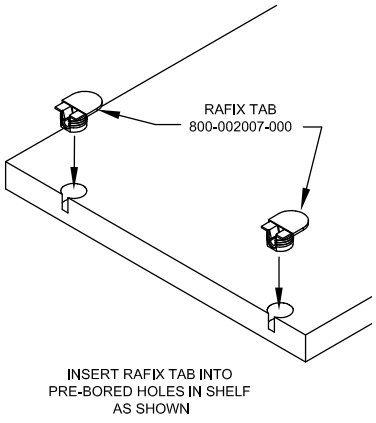
a. Lay all shelves on the floor or flat surface with the pre-drilled holes facing up. (Make sure the floor or surface is covered with a material that will not scratch or mar the finish on your shelves).

b. Determine how many fixed shelves and how many adjustable shelves you should have. Refer to your pack list.

c. Tap a locking cam into each pre-drilled position in the corner of each fixed shelf. Position cams as shown above.

d. Tap a sliding tab cam into each pre-drilled position in the corner of each adjustable shelf. Position cams as shown below.

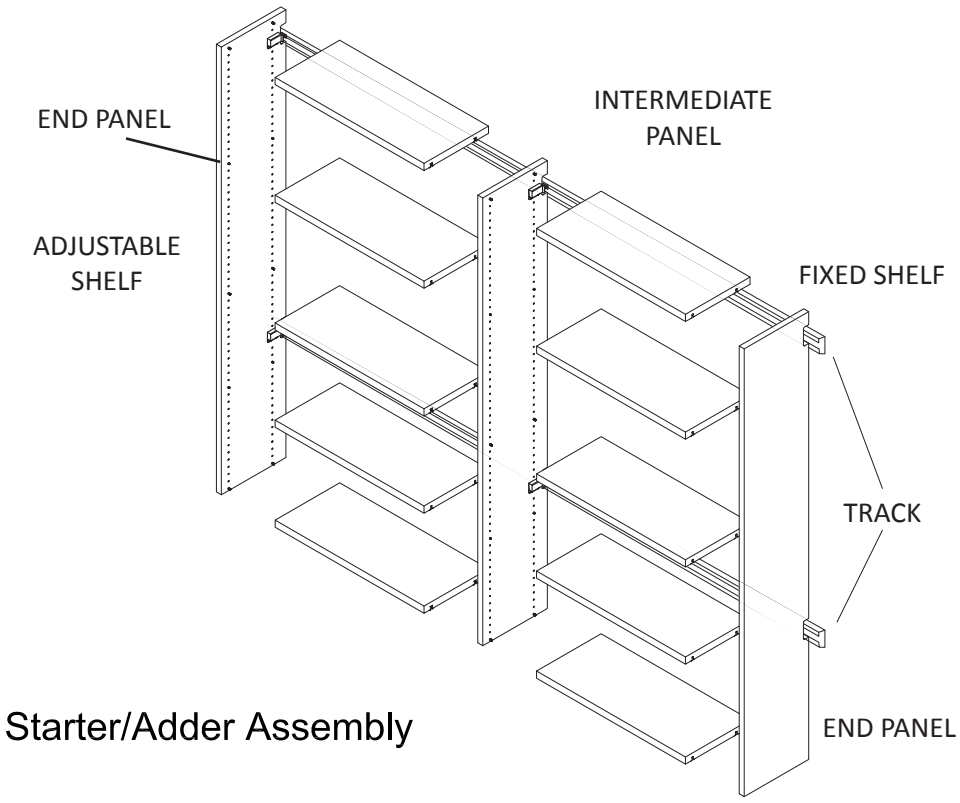




Mount Vertical Panels to the Track – Attach Shelves

Tools Required:

- Phillips Screwdriver
- Level



Starter/Adder Assembly

a. Loosely mount the panels for the first section on the track. Do not tighten at this pont. You should begin with an end panel and either the other end panel (If your shelving is only 1 one unit wide) or an intermediate (Adder) panel.

b. Slide the fixed position shelves down in place so the cam stud are in the locking cam. Using a Phillips screwdriver, turn the locking cams so the shelf locks in place. Repeat for all fixed position shelves.

c. Place the shelf support pins into the desired locations. Slide the ajustable shelves down onto the pins. Slide the cover of the sliding cam tabs closed to lock the shelves.

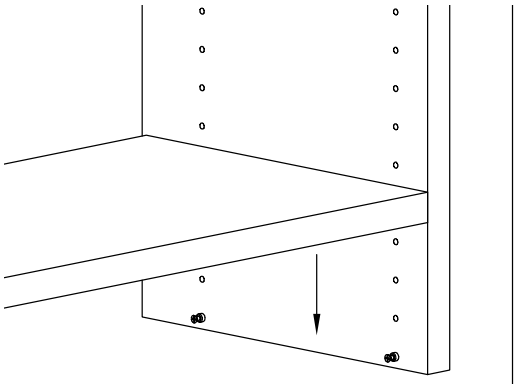
d. Make sure that the end panel is square. With the end panel in the desired position, tighten the clip screws on each cabinet hanger to securely lock the end panel in place.

e. Make sure that the end/intermediate panel is square. With the panel in the desired position, tighten the clip screws on each cabinet hanger to securely lock the end panel in place.

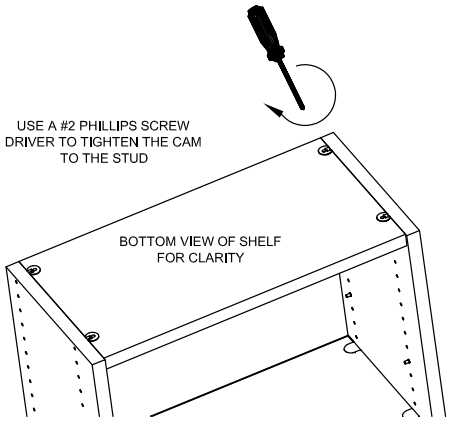
f. If continuing the shelving run, loosely place the next vertical (end or intermediate) panel and repeat steps "c" and "d".

Attach Shelves

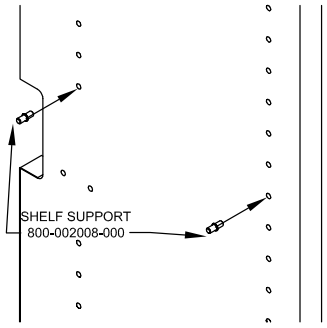
Mount and Lock Fixed Position Shelves



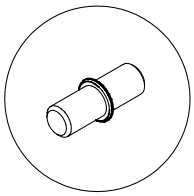
SLIDE SHELF ONTO THE CAM STUDS



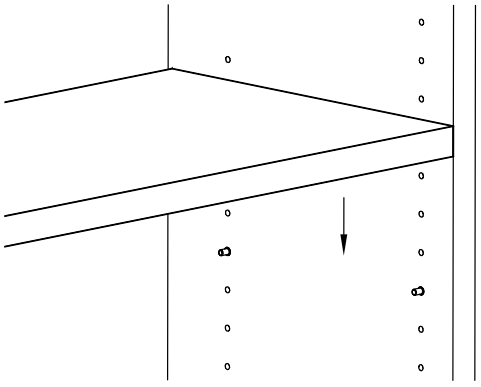
Mount and Lock Adjustable Position Shelves



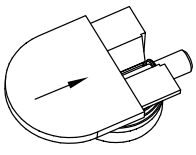
PUT SHELF SUPPORTS INTO Ø5mm HOLES

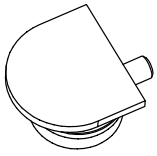


SHELF SUPPORT
800-002008-000



SLIDE ADJUSTABLE SHELF DOWN ONTO THE PINS





SLIDE COVER OF RAFIX TAB INTO THE CLOSED POSITION TO LOCK SHELF INTO PLACE