BRETFORD™

HRR
HERE ®
RAIL SYSTEM- STRAIGHT

Assembly Instructions

NOTE:
To ensure proper installation of Rail System, use a professional contractor. Bretford Manufacturing Inc. will not be held liable for improper installation. Read through the instructions thoroughly to ensure a complete overall understanding of step by step procedures.

New construction note:
Two horizontal framing studs (backer supports) can be added to the wall framing to facilitate in the installation of rail system. See 'Sketch 1a and 1b'.

Maximum load limitations:
Per 8 foot (2 piece) section is 400 pounds.

Upon completion of installation , it is recommended that the Rail System be free of any debris/shavings and wiped down with a window/glass cleaner to remove any dust.
Partial sections must fasten to at least 2 (two) studs.

PARTS LIST

Qty.	Part No.	Description
2	030-0677	Extrusion, Top Rail (8' length)
2	030-0678	Extrusion, Bottom Rail (8' length)
2	PL1918	Spacer Stick
1	TM3021	T-Molding (17' length)

HARDWARE LIST

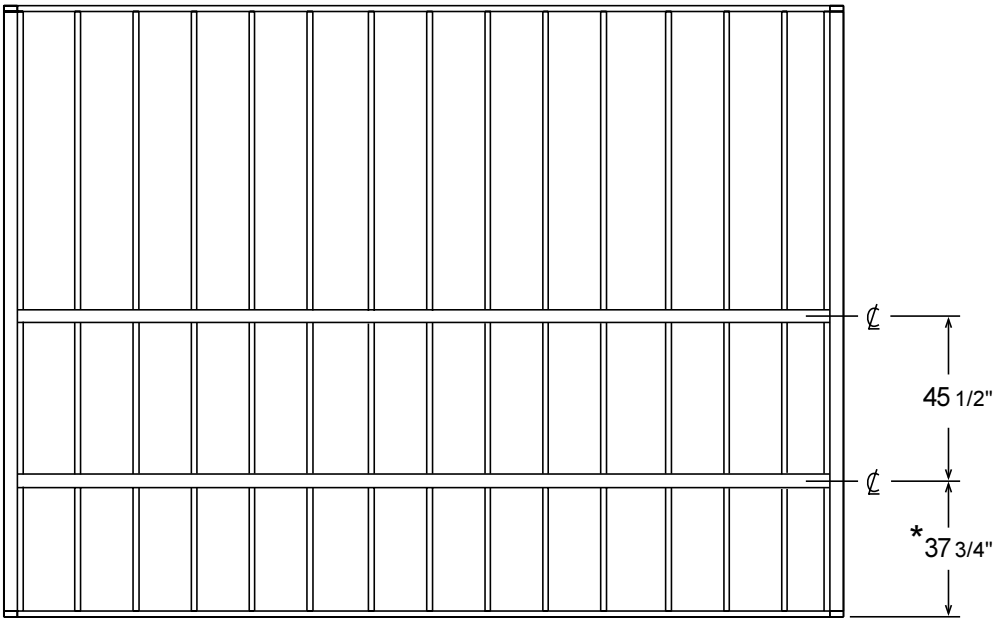
Ref.	Qty.	Part No.	Description
AA	12	030-0723	1/8" dia. x 1" Long Roll Pin
BB	10	030-0674	#8 x 3/8" Self Drilling/Tapping Screw
CC	20	010-3226	Shim, Metal
DD	27	DW1029	Dowel Pin, Wood

TOOLS REQUIRED

Carpenters Level
Electronic Stud Finder
Plumb Line (w/bob)
3/8" Electric Drill
5/16" Drill Bit
1/4" Drill Bit
7/64" Drill Bit
1/16" Drill Bit
Deburring / Countersink Tool
Hammer
Rubber Mallet
Extension Bit/Socket Holder
Electric Miter Saw (w/10" Fine-Tooth Carbide Tip Blade)
Flat Edge Screwdriver
Flat File
Awl

New construction wall preparation

(non-load bearing walls)



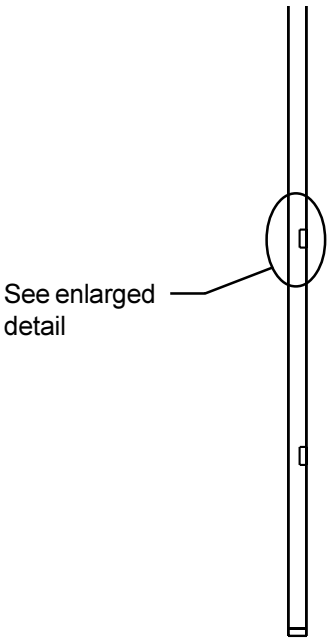
* from finished floor level

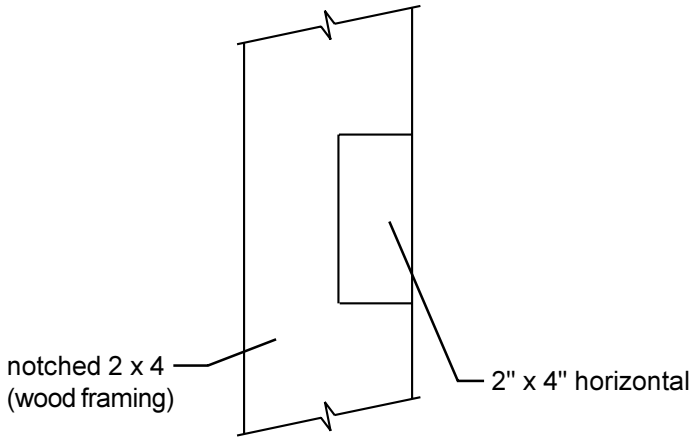
Sketch 1a

(Front View)

Install two horizontal backer supports (also see detail below) to be utilized with mounting hardware of the rail system. It is recommended to run the backer support the entire length of the wall. This is for any future additions of add-on lengths of straight rail systems or inside corner rail systems**.

** If possible, add horizontal backer supports on the perpendicular walls. Then determine any required lengths for an "L" shaped or an "U" shaped corner rail system.

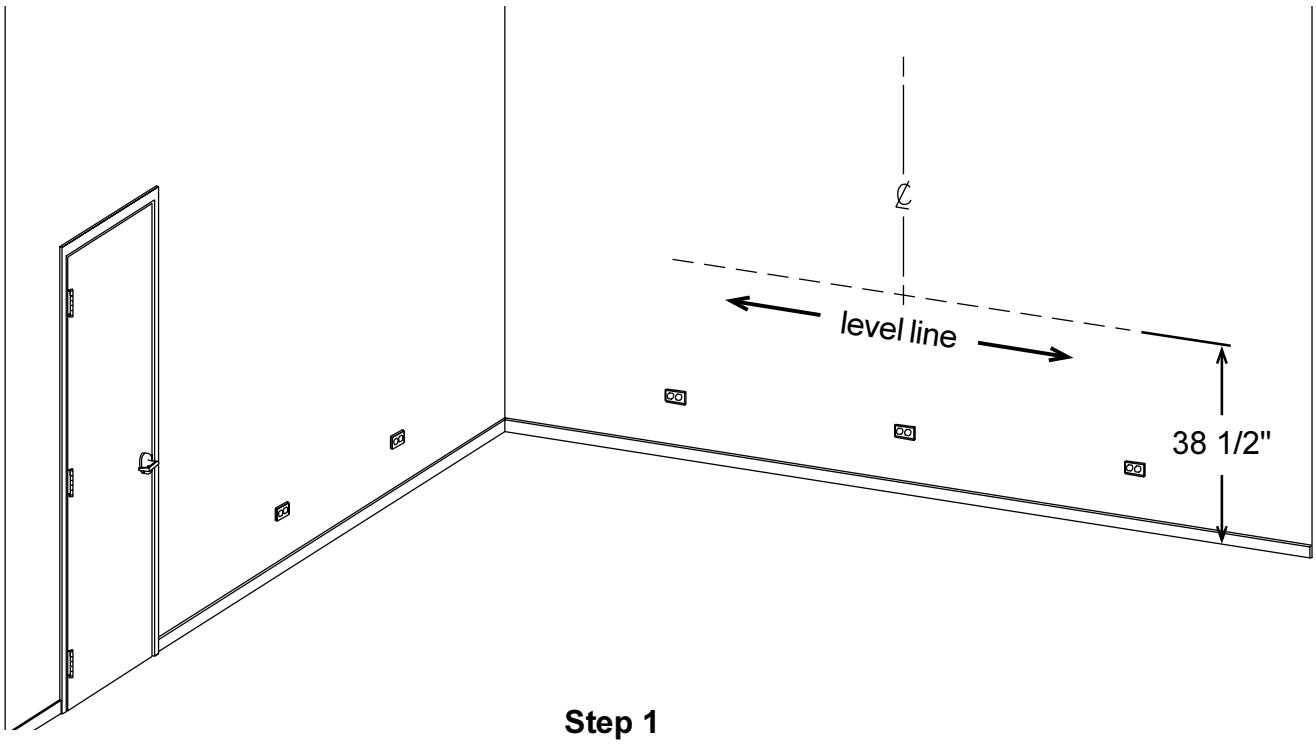




Sketch 1b

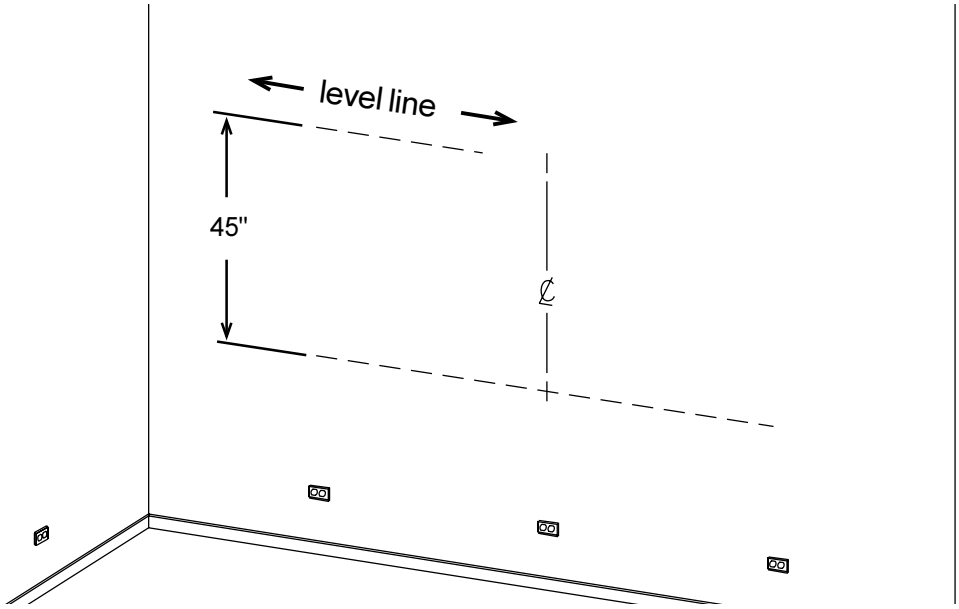
(Side View)

Before installation of the rail system is to start, first check the wall for plumb. If necessary, establish the high/low points for shimming purposes. This will result in a level, smooth operating rail system. All dimensions resulted in this assembly should not exceed +/- 1/16" of plumb, level and parallel.



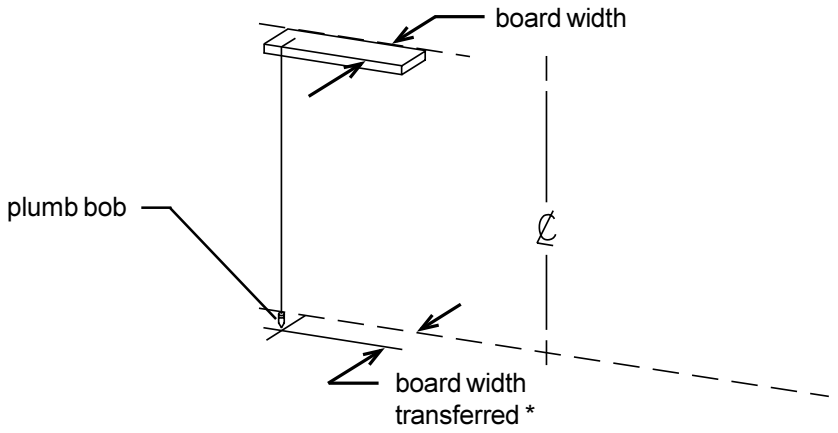
Step 1

Determine which wall to mount the rail system. Measure and mark 38 1/2" from the floor to establish the bottom rail position. Using a carpenters level, pencil on a light level line across the wall equaling the length of rail required (also if needed, extension rail length required).
It is preferred to 'center' the rail system on the wall, but it can be 'off-center' where applicable.



Step 2

Add a short length of level line approximately 45" above the first level line. This line will locate the area for the board used with the plumb bob. See detail 'A'.

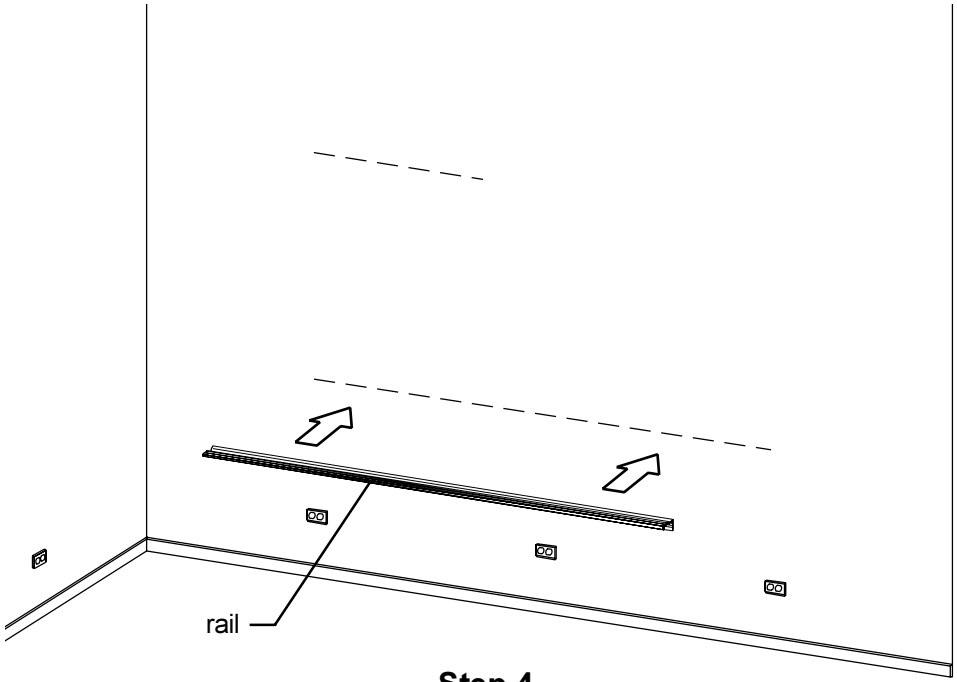


Detail 'A'

* Note any difference in dimension from board width. Either (+) or (-). Then mark it at that location to obtain plumb with shimming.

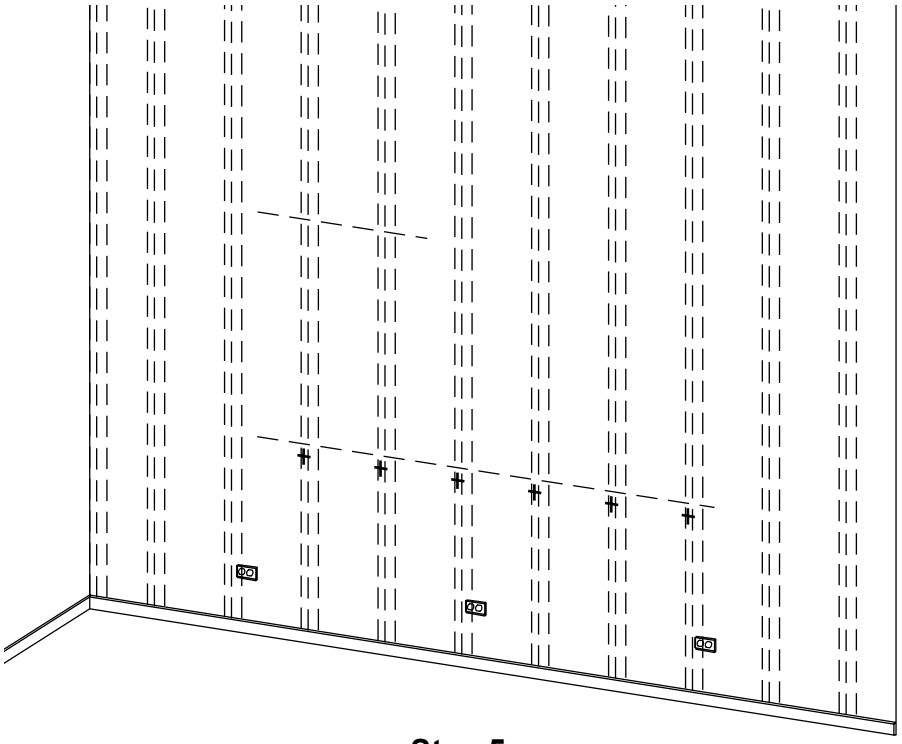
Step 3

Place a straight board (**with a parallel width**) on the short level line. Set the plumb line on the board and lower the plumb bob down to the lower level line. Measure the distance where the plumb bob rest. If the dimension is the same as the board width, the wall is plumb *.



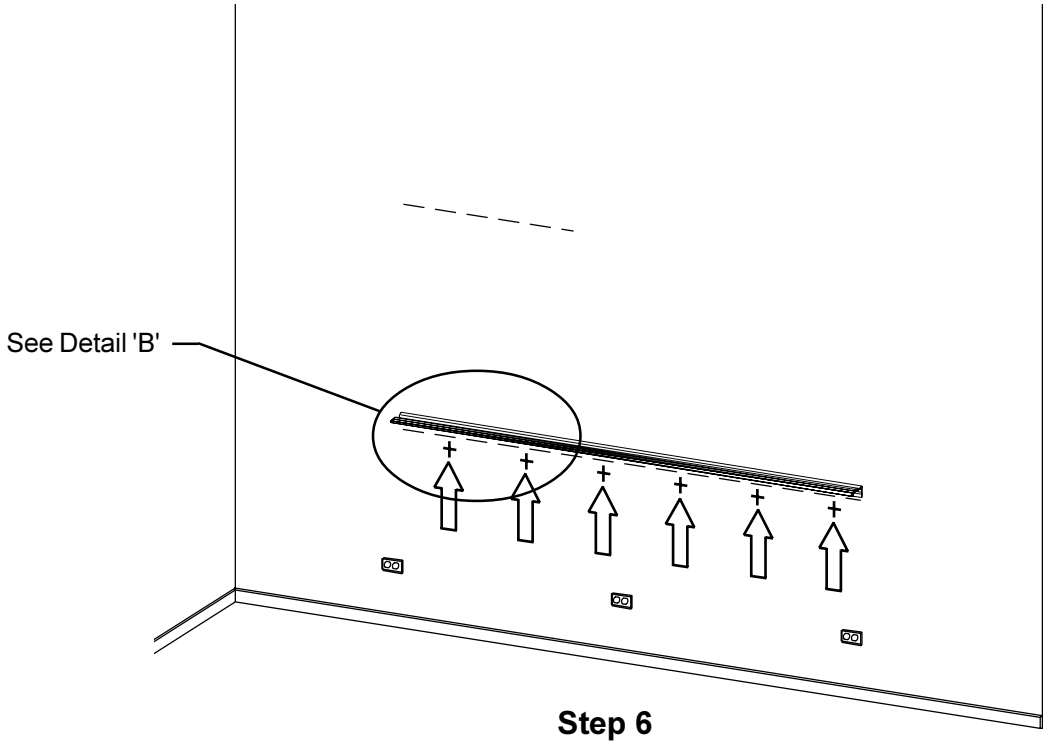
Step 4

Check the wall for flatness by placing a section of rail up against the wall. If the rail 'rocks', locate the high point and sand it down level where the rail surface mounts. If there are any gaps, measure the distance and mark the dimension on the wall. The gap will be shimmed later in Step 9 (**note**).



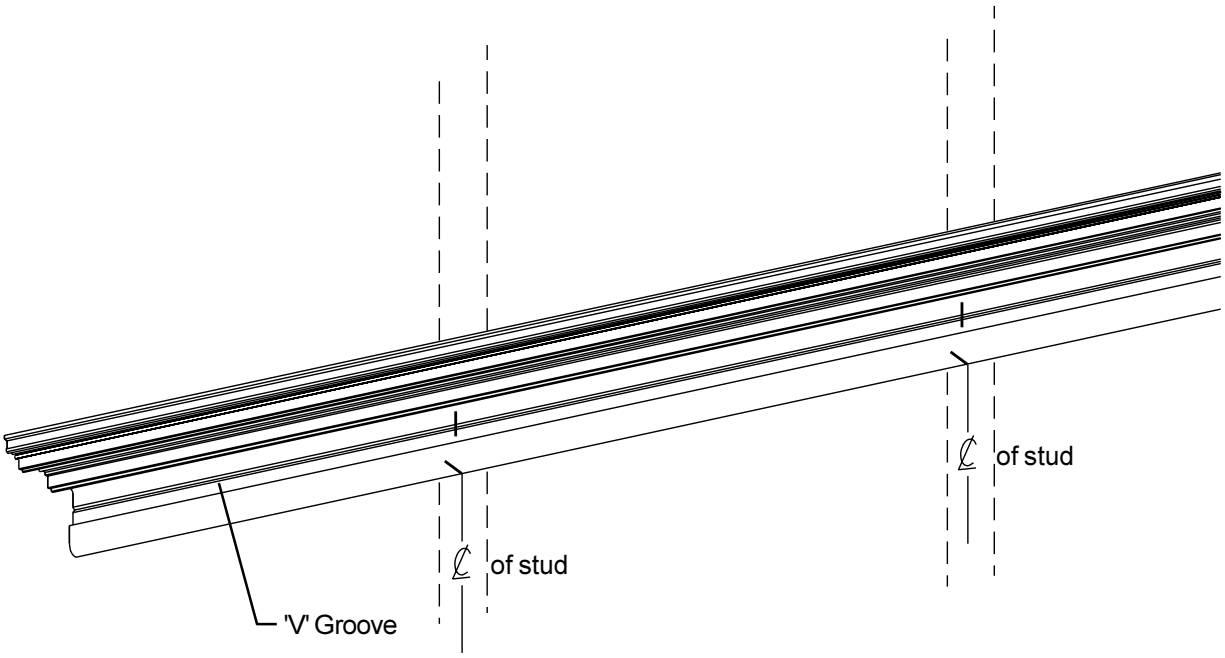
Step 5

Locate the studs for mounting the lower rail (an electronic stud finder can be used). Determine if you have 16" or 24" centers in the wall. Once the studs are located, use a drill (with a 1/16" dia. drill bit installed) and drill to determine the outer edges of the studs (**NOTE:** Do not drill above the level line and do not drill any lower than 2" below the level line. The rail will cover the drilled holes upon later installation). With the width of the studs defined, mark the center line between outer two drilled holes that missed the stud.

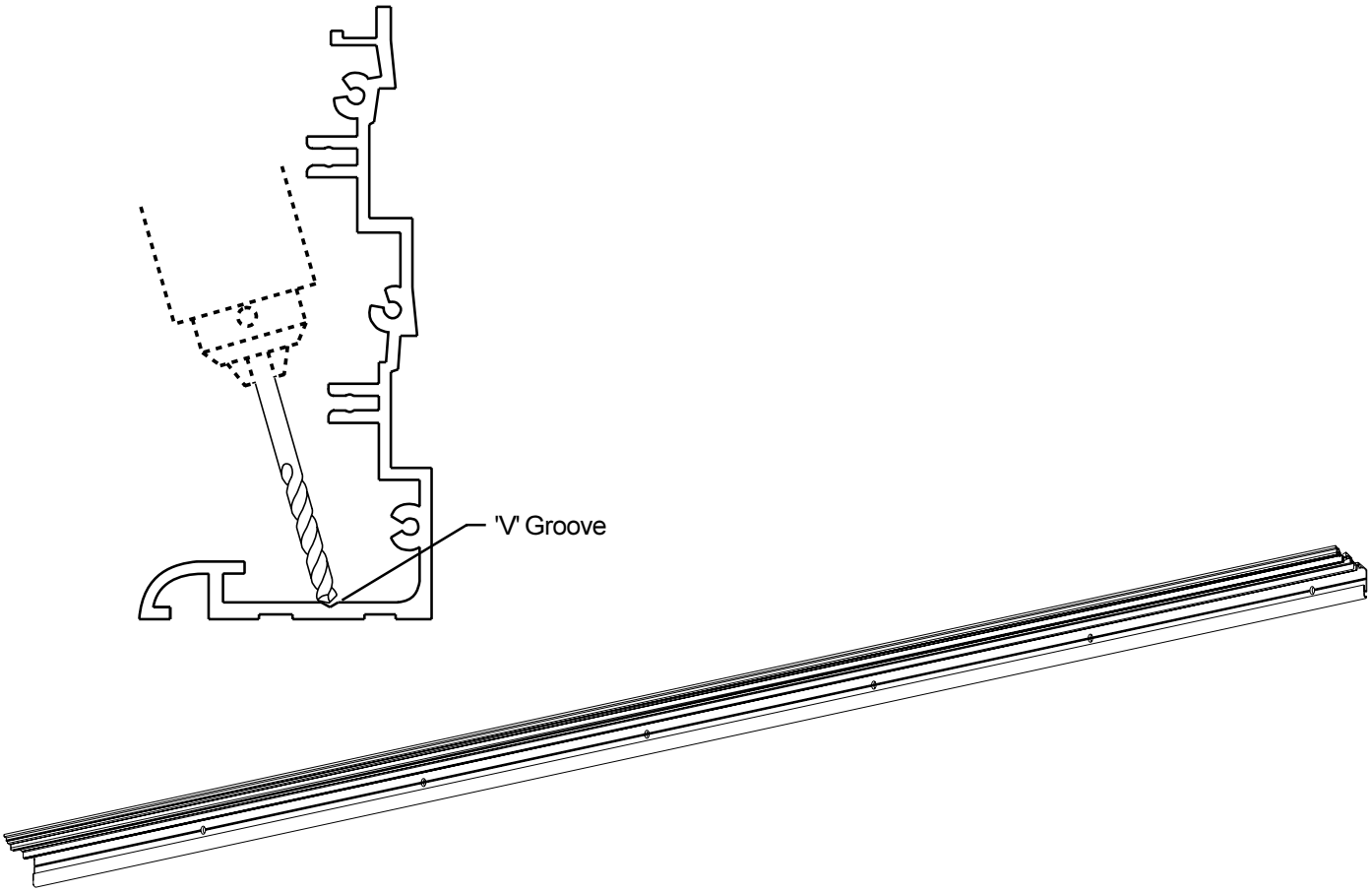


Step 6

Place the bottom edge of the rail centered on the level line. With a pencil, mark the center line location of each stud. (See Detail 'B'). Transfer the marks onto the vertical surface with the 'v' groove.

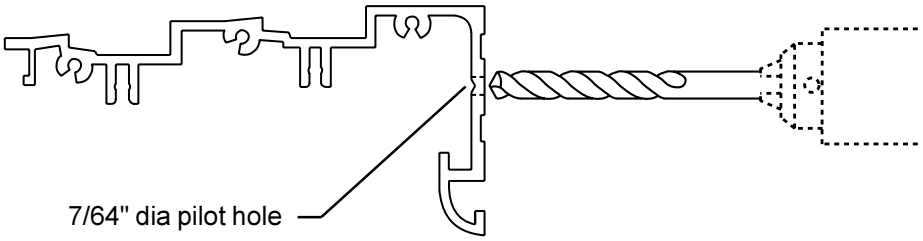


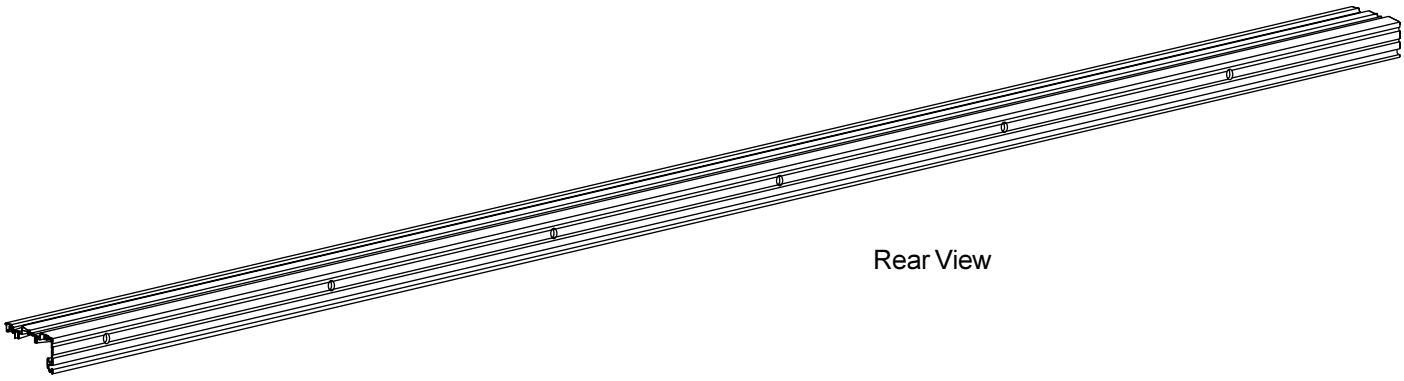
Detail 'B'



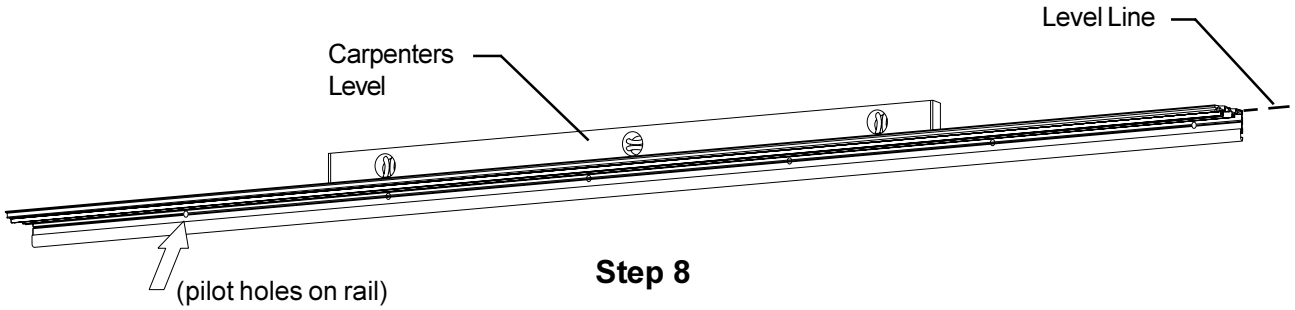
Step 7

Place the rail on the floor with a scrap piece of wood underneath to protect the floor. Drill thorough material on all marked 'v' groove locations with a 7/64" dia drill bit (see detail above).



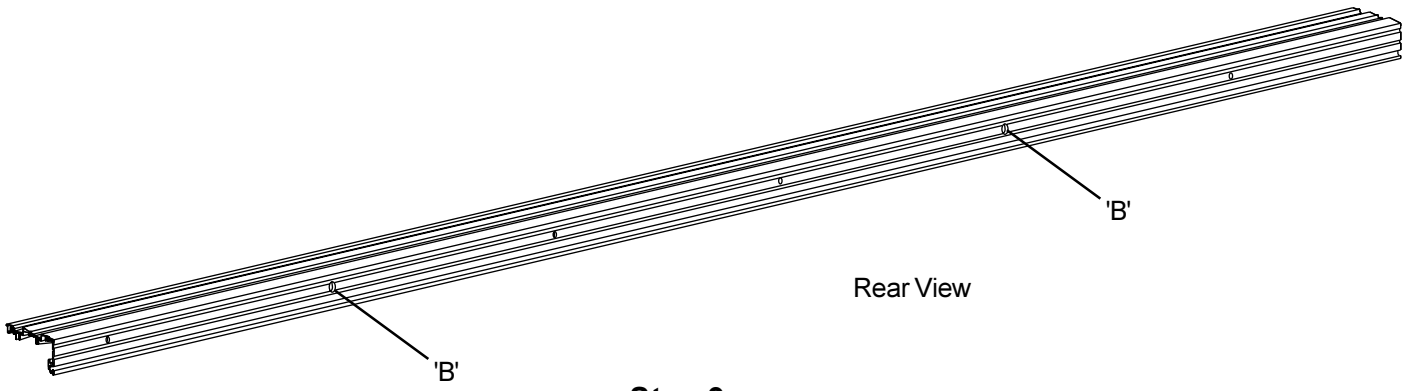


Enlarge all 7/64" dia pilot holes by drilling to 1/4" dia holes. Note: At this point it will be easier to drill the 1/4" dia holes from the rear (see detail above). Remove any burrs with a deburring tool (or larger dia drill bit).



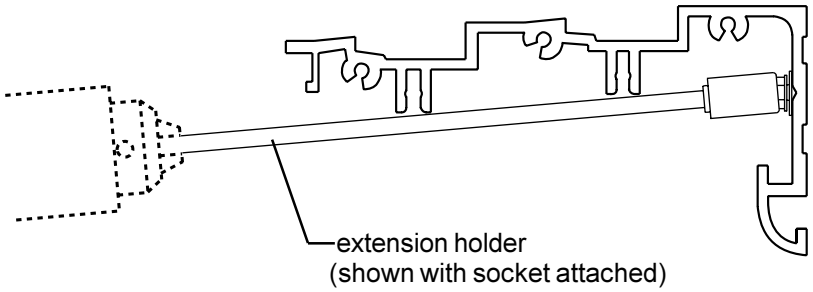
Step 8

Position the rail (top rear edge) onto the level line. Recheck level position by placing a level on top of the rail. Carefully mark the location of all mounting holes onto the wall using the pilot holes as a template. Set the rail aside and drill the pilot holes into the wall studs with a 7/64" dia drill bit to accept your mounting hardware.

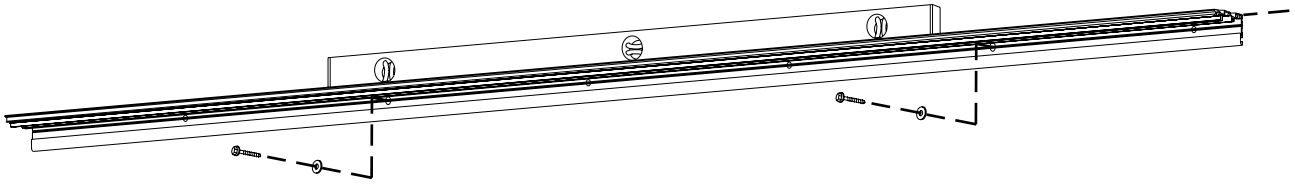


Step 9

Enlarge two existing pilot holes from the rear (at 'B'), by drilling to 5/16" dia. Remove any burrs with a deburring tool. This modification will allow some adjustment during installation and leveling.



An extension bit/socket holder is recommended for hardware installation in Step 10.



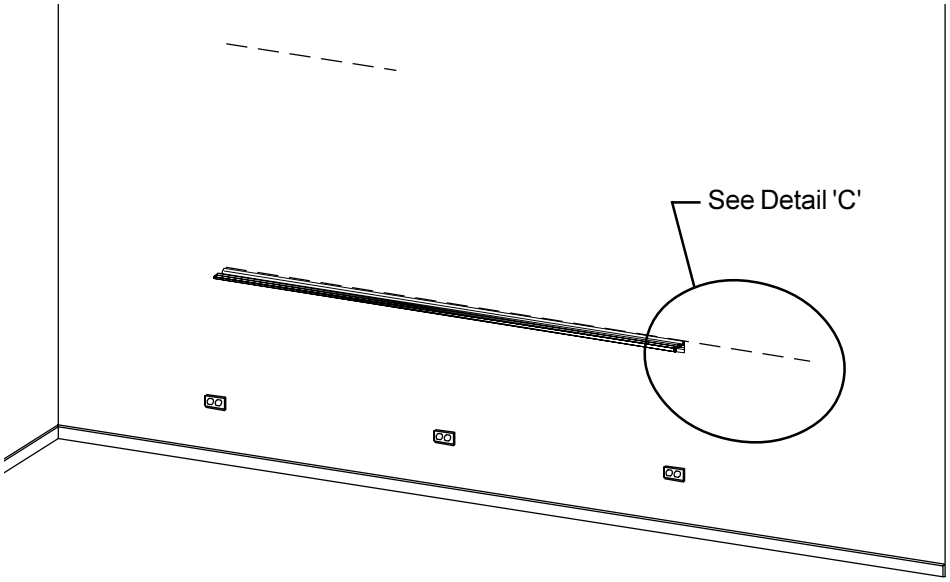
Step10

It is recommended that no less than a #10 and no larger than a #12 screw with a low profile head, which is case hardened and tempered be used for installation

Mount the rail (top rear edge) onto the level line with (2) screws and (2) flat washers to a 'snug' fit. **Do not over tighten screws in a metal stud wall. They can be stripped if over tightened.** Recheck level position by placing a level on top of the rail. If the rail is not level, tap the rail up or down according to the level reading. Once the rail is level, install remaining screws and washers. **Tighten all screws manually.***

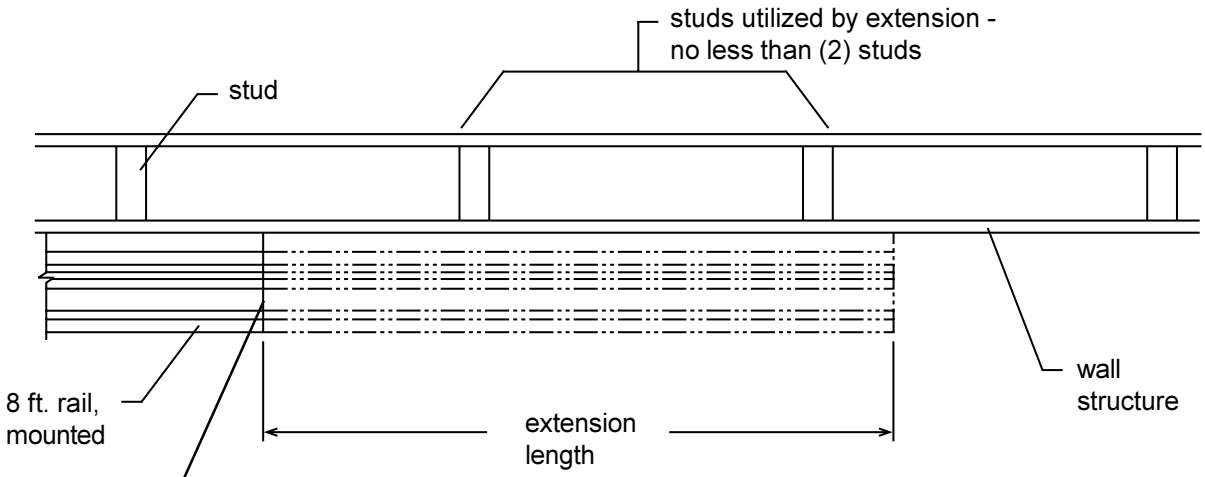
***Note: Prior to tightening all screws (Step 10); if there were any "gaps" along the rail and wall at a stud location, the metal shim plates (CC) can be added. Shim plates have a notch in them so they can be slipped over the mounting screws. Each shim plate is 1/16" thick.**

If your rail system does not require an extension rail or multiple 8 foot sections, skip to Step 15



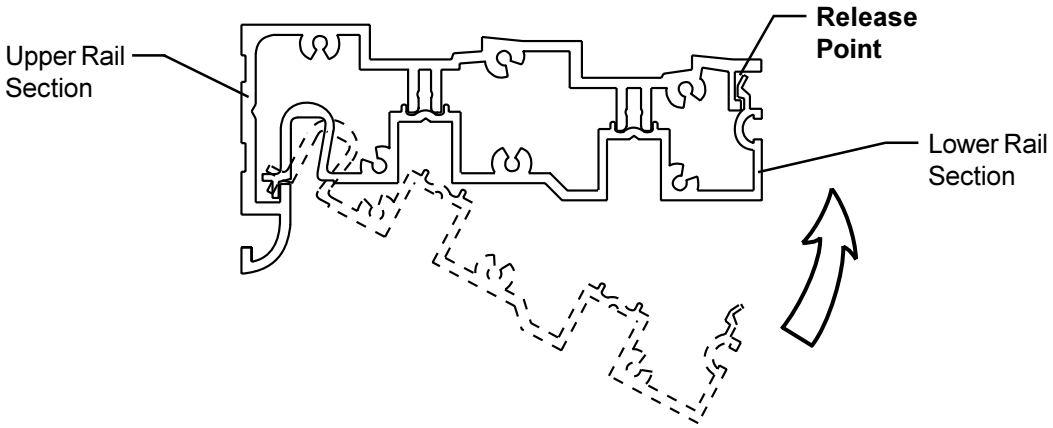
Step 11

Measure out the required length of rail needed for your extension piece. You need at least two wall studs for mounting the extension rail (see Detail 'C').



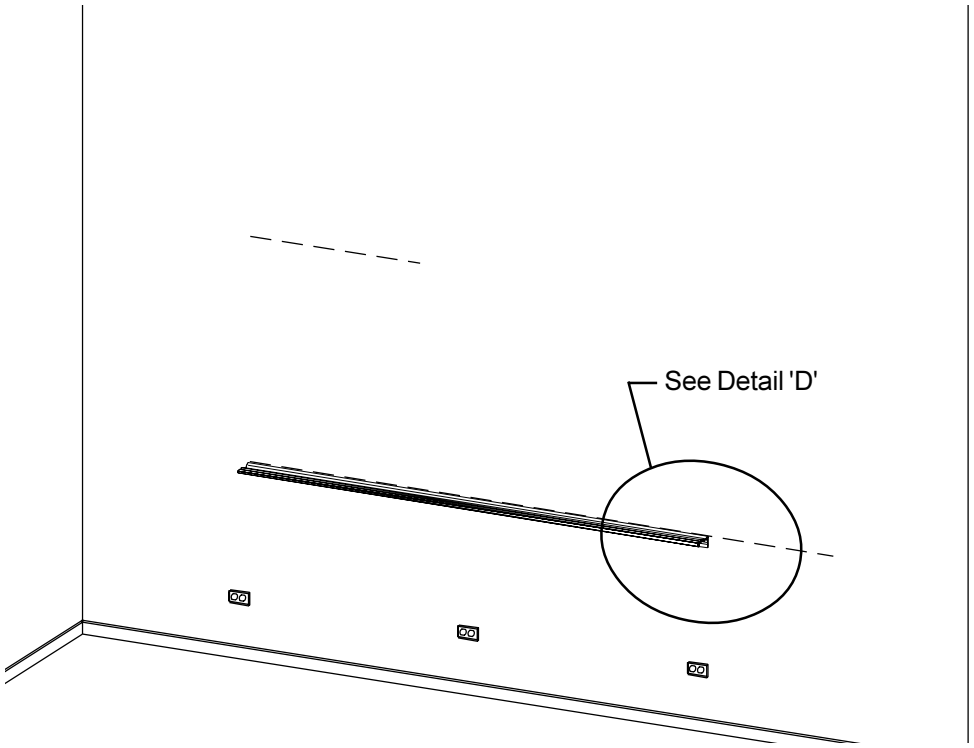
Detail 'C'
(Top View)

Note: If necessary, the 8 foot section can be cut down to accommodate the (2) stud mounting required for the extension rail. **Any ends that are cutdown, must be deburred (beveled) with a flat file for a smooth transition between rail butt joints.**



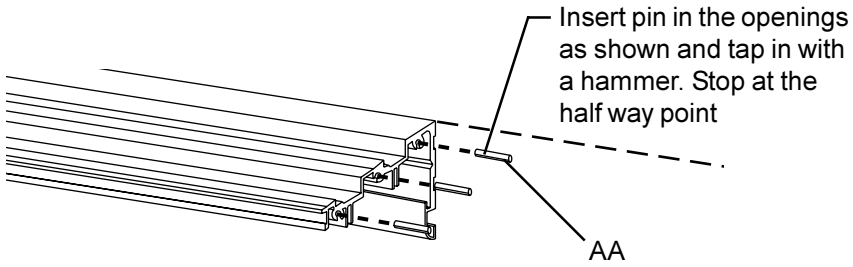
Prior to cutting your required length of rail, assemble the upper and lower rail sections together . Make sure that the ends are flush before the two pieces are snapped together. This will assure equal lengths for proper assembly.
Note: When laying out the length for cutting, have the 'factory edge' of the extension piece butt up with the full length piece (mounted on the wall). This will avoid any filing/beveling of the cut pieces for a smooth transition between the two.
After the assembled part is cut, an awl tool can be inserted into the 'release point' of the assembled part and pried apart.

Follow Steps 5 thru 8 to prepare the wall for mounting the extension rail.

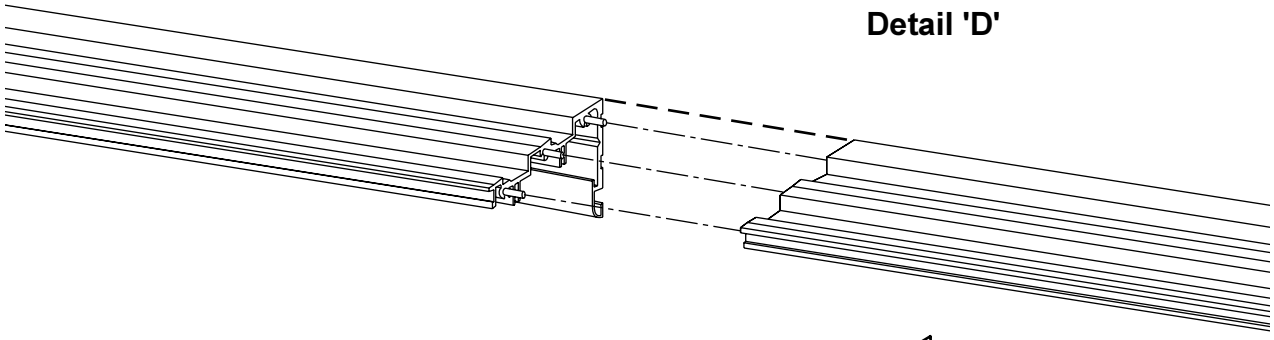


Step 12

Install (3) guide pins (AA) into the wall mounted rail (see Detail 'D').

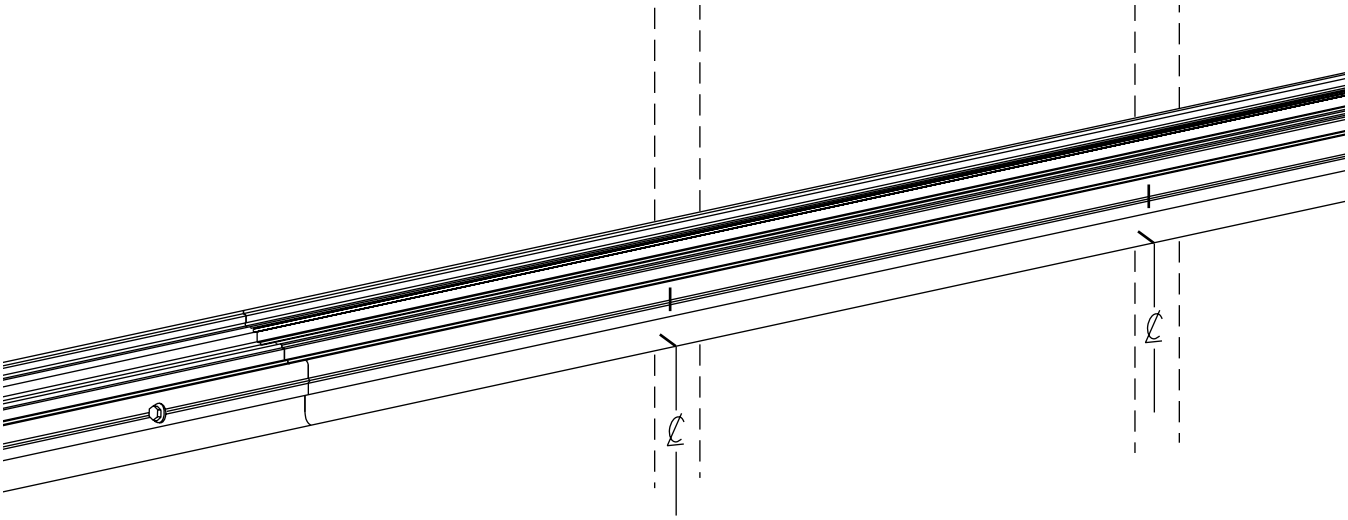


Detail 'D'



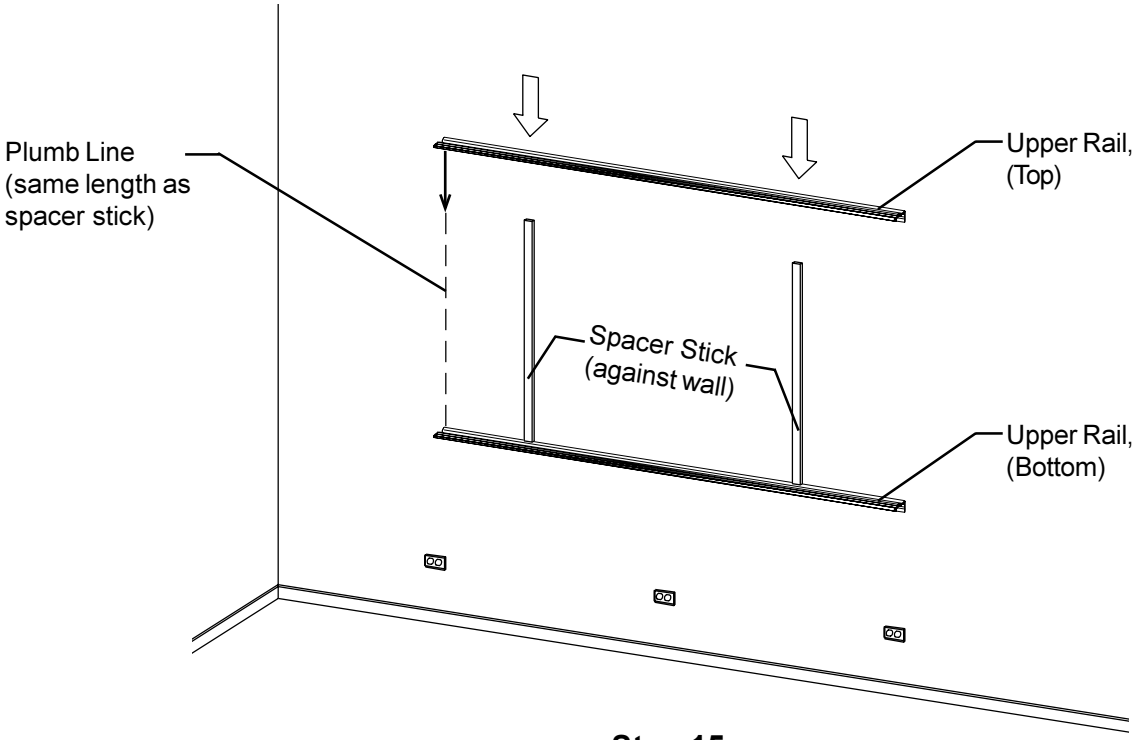
Step 13

Align the extension rail over the (3) guide pins and butt the two rails together.



Step 14

With a pencil, mark the center line location of each stud onto the vertical surface with the 'v' groove. Remove the extension rail from the wall and drill the pilot holes in the rail as in Steps 7 and 8. Then mount the rail as in Step 10.



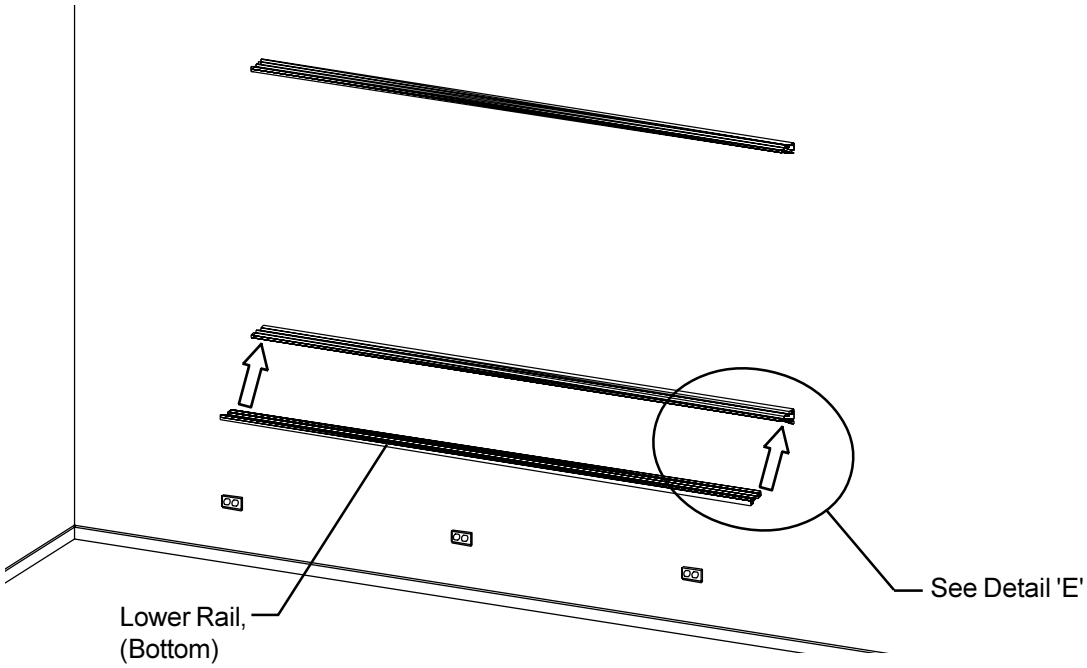
Step 15

Add a plumb line from the edge of the bottom upper rail, upward the same length as the spacer stick (43 3/8"). This is the starting point for the top upper rail. With the top upper rail resting in the spacer sticks, line up the rail with the plumb line. Trace a light pencil line to establish the top and bottom edges of the rail. This area will be used to locate the stud centers. **Note: Do not drill outside this area.**

Follow Steps 5 thru 10 to prepare the wall and mount the upper rail.

If your rail system has an extension to it, **repeat Steps 11 thru 14.**

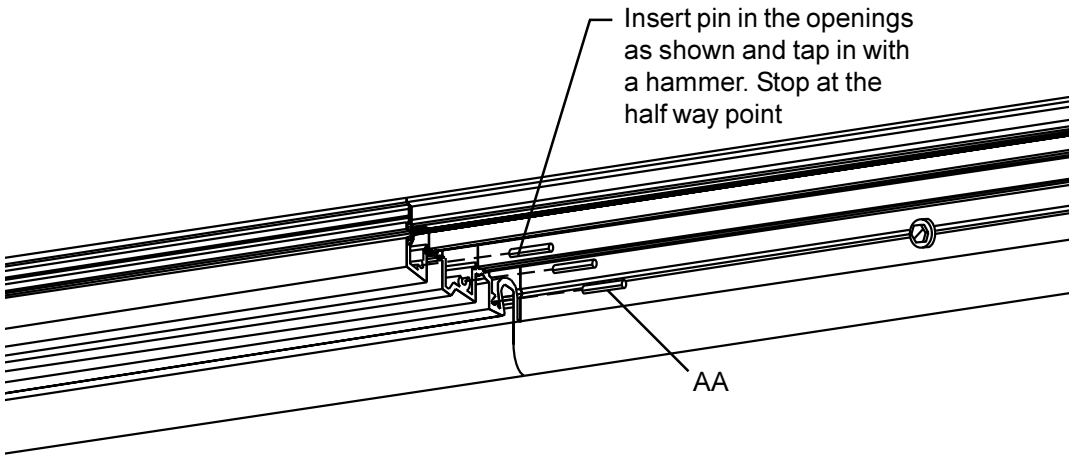
It is important to maintain the spacing between the bottom and top rails for proper accessory mounting and functions.



Step 16

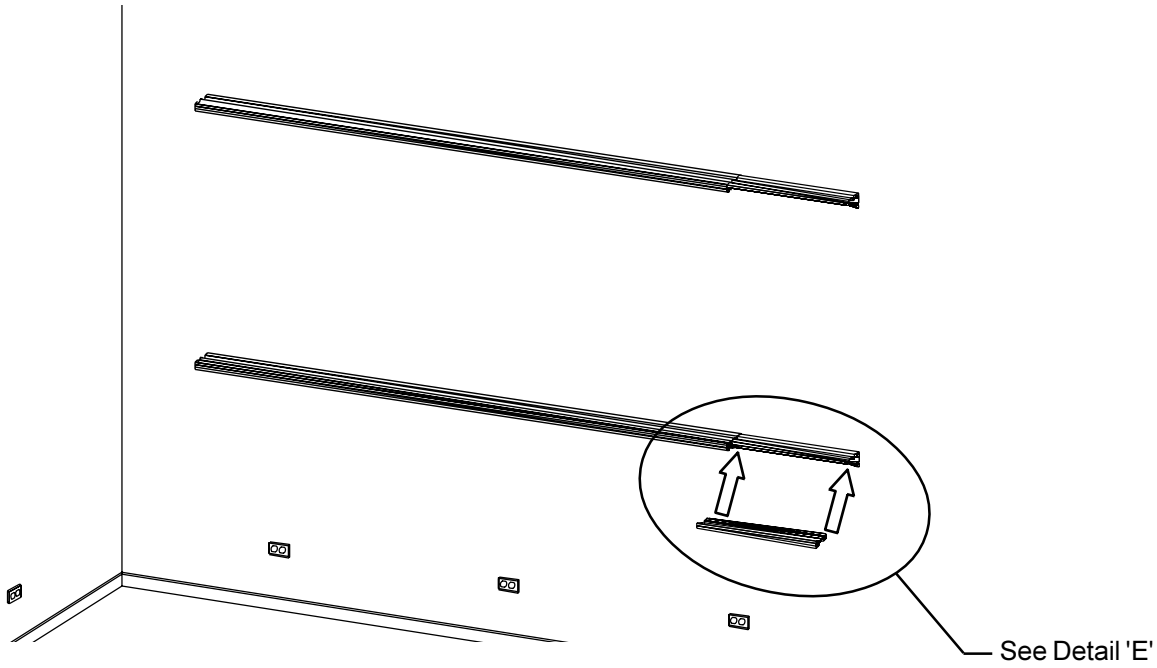
Attach the lower rail of the bottom section by hooking the back edge onto the installed bottom upper rail and raise up the front edge (see Detail 'E'). Starting from one end, press together along the entire length of rail to snap it on.
Repeat Step 16 for the top section.

If your rail system does not require an extension rail or multiple 8 foot sections, skip to Step 20



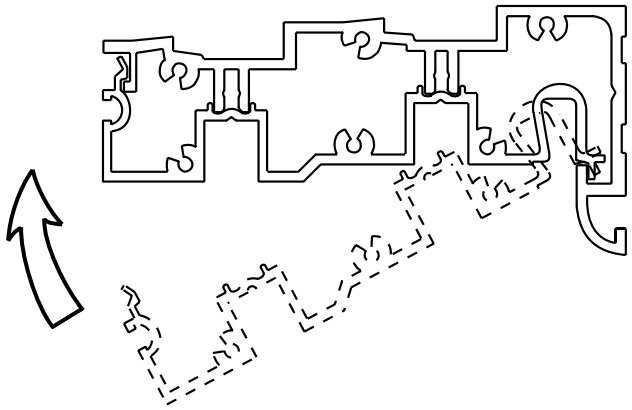
Step 17

Install (3) guide pins (AA) into the wall mounted rail.

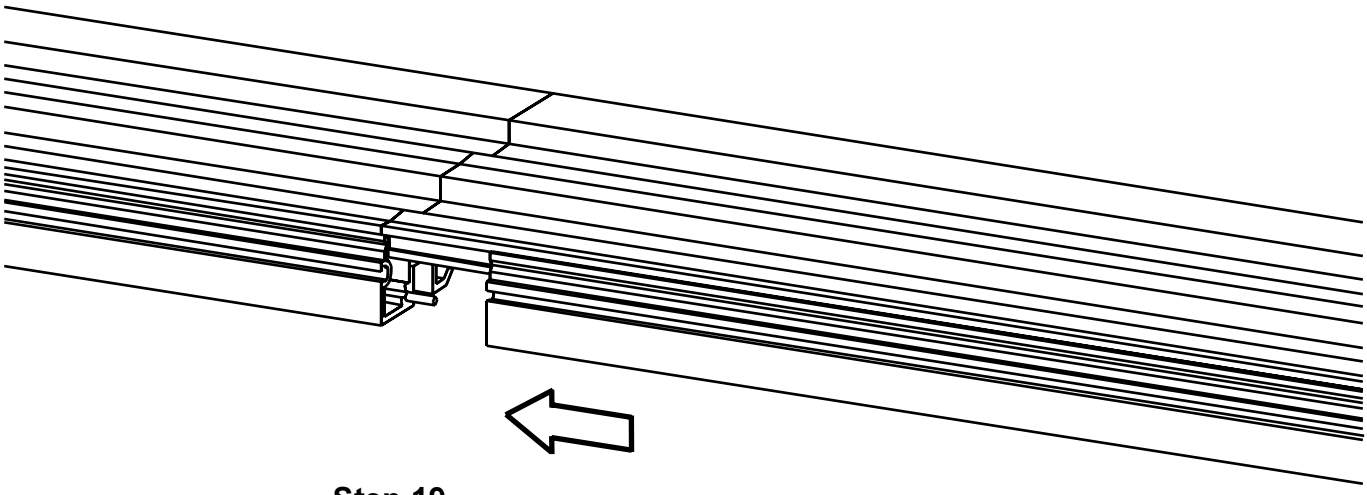


Step 18

Place the lower rail under the upper rail about an 1" away from the pins. Attach the lower rail of the bottom section by hooking the back edge onto the installed bottom upper rail and raise up the front edge (see Detail 'E'). Starting from one end, press together along the entire length of rail to snap it on.
Repeat Step 18 for the top section.

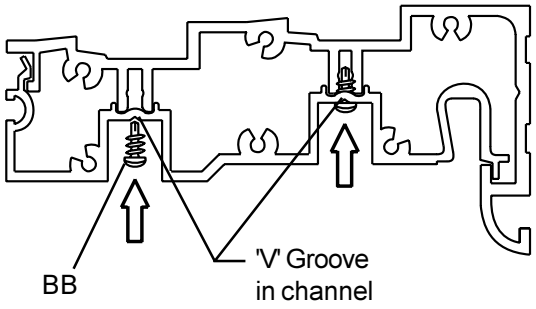


Detail 'E'



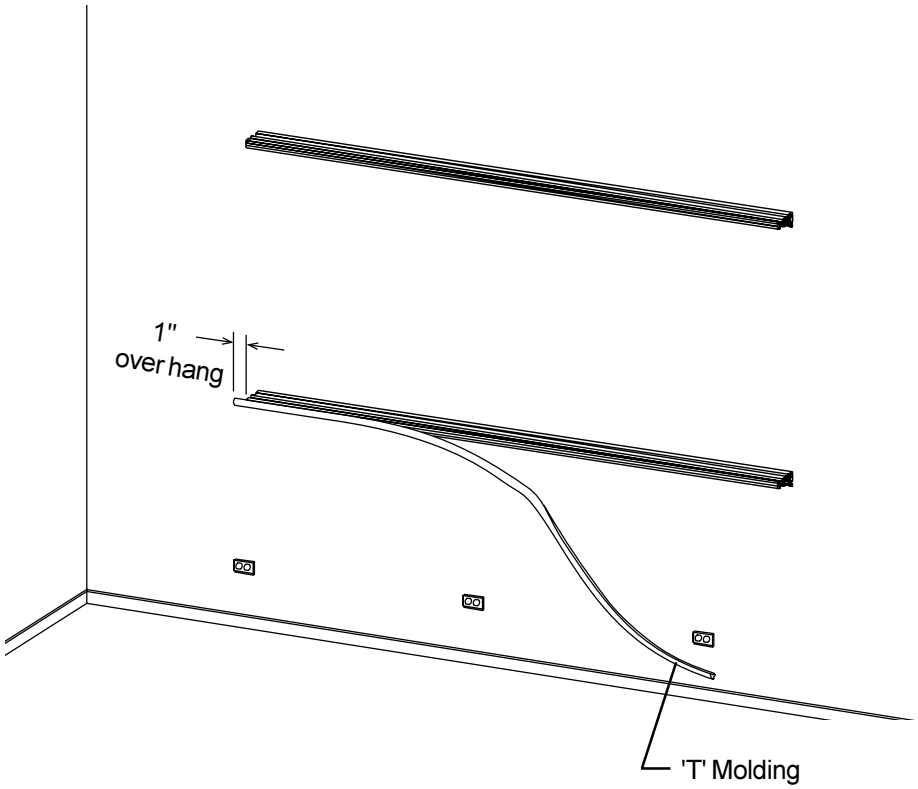
Step 19

With the rail snapped into place, slide the rail over the (3) guide pins and butt the two rails together. Use a mallet if necessary.
Repeat Step 19 for the top section.



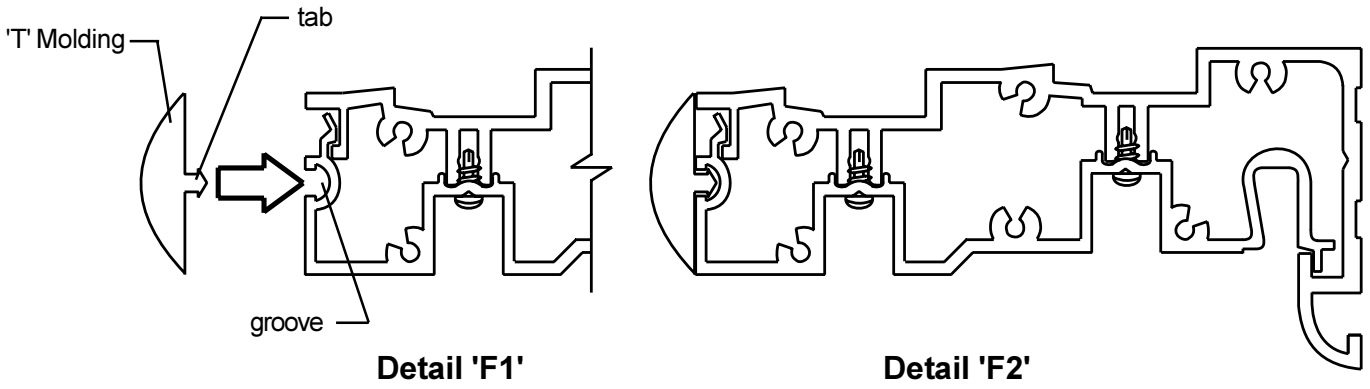
Step 20

From underneath, install (5) #6 x 3/8" long self drilling screws (BB) along the 'v' groove in both channels of the lower rail as follows. With a power drill and a phillips driver bit installed, drive in one screw in both front and rear channels approximately 1" to 1 1/2" from each edge (of an 8 foot length). Drive in one screw in either the front or rear channel at the middle (of an 8 foot length).
Install screws to both top and bottom sections.

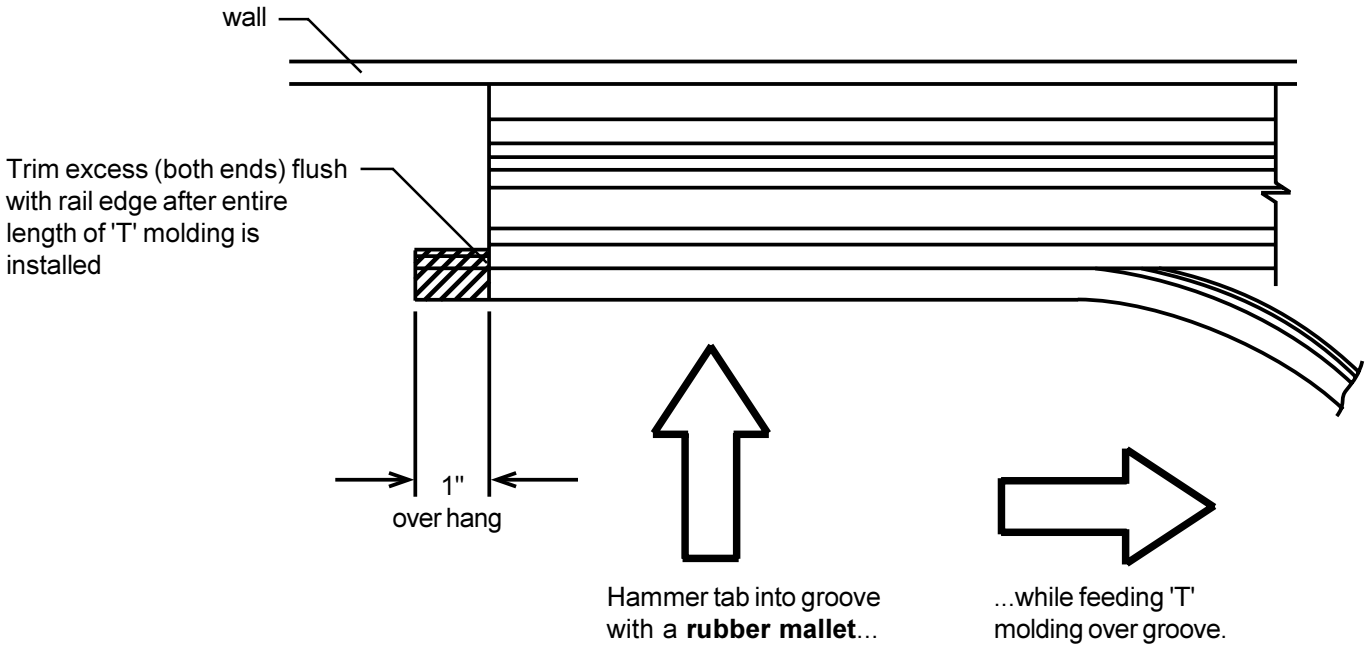


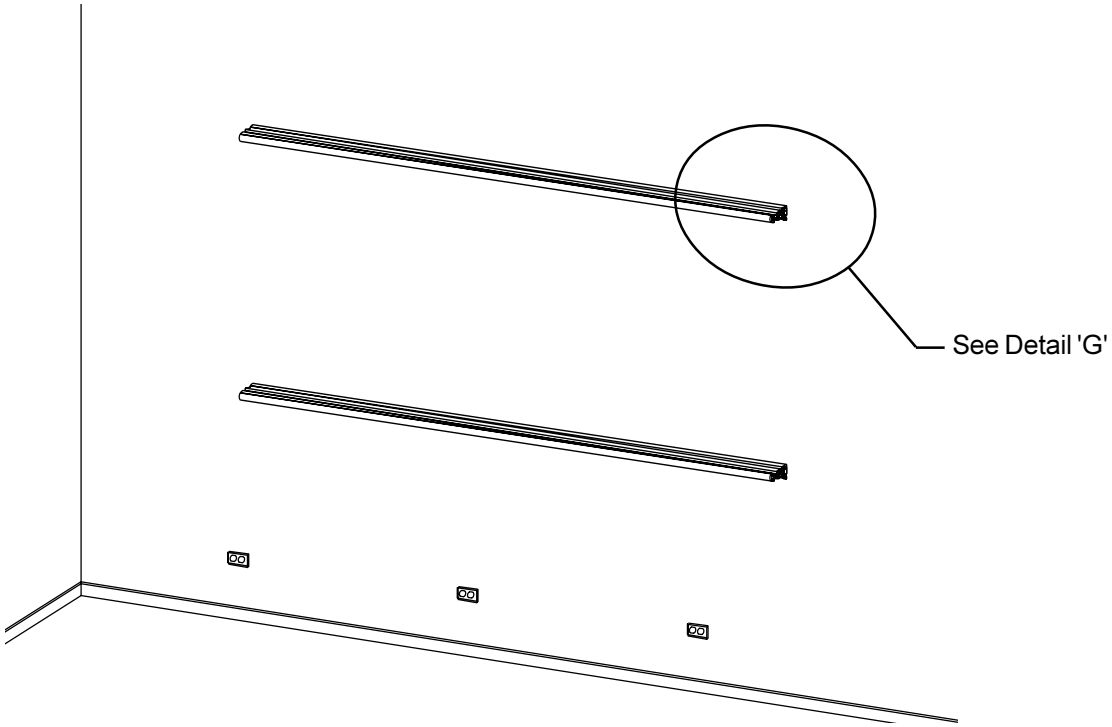
Step 21

Align the tab of the 'T' molding over the groove on front of the rail (see Detail 'F1'). Leave 1" of 'T' molding extend past the end of the rail. While holding the 'T' molding in place, set the 'T' molding in the groove with a rubber mallet (see Detail 'F2'). Repeat Step 21 for the top section.



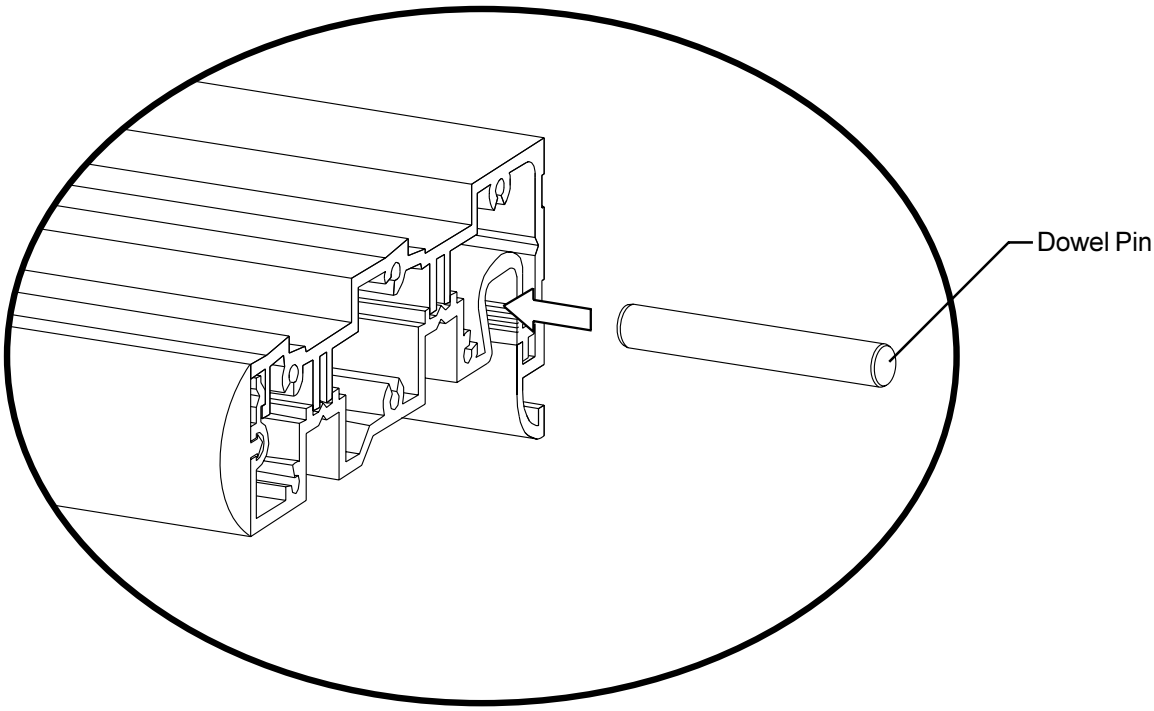
Detail 'F1' **Detail 'F2'**



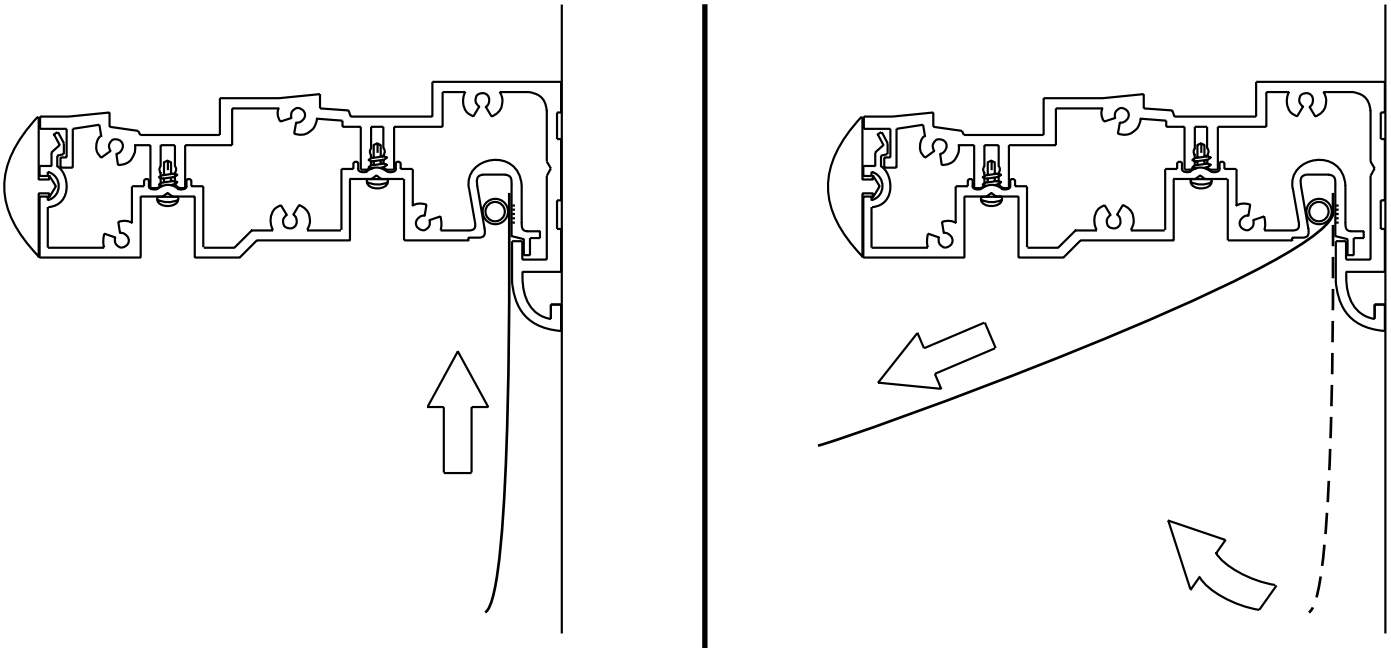


Step 22

Insert all wooden dowel pins (DD) into the ribbed channel of the **top** rail (see Detail 'G'). This will allow you to insert and secure poster size paper between the pins and the ribbed channel anywhere along the length of the rail.



Detail 'G'



To secure paper:
Insert paper upward behind dowel pin.

To remove paper:
Hold the paper from the bottom edge, swing it up and pull ot out towards you.

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Rev. 04.21.05 CH