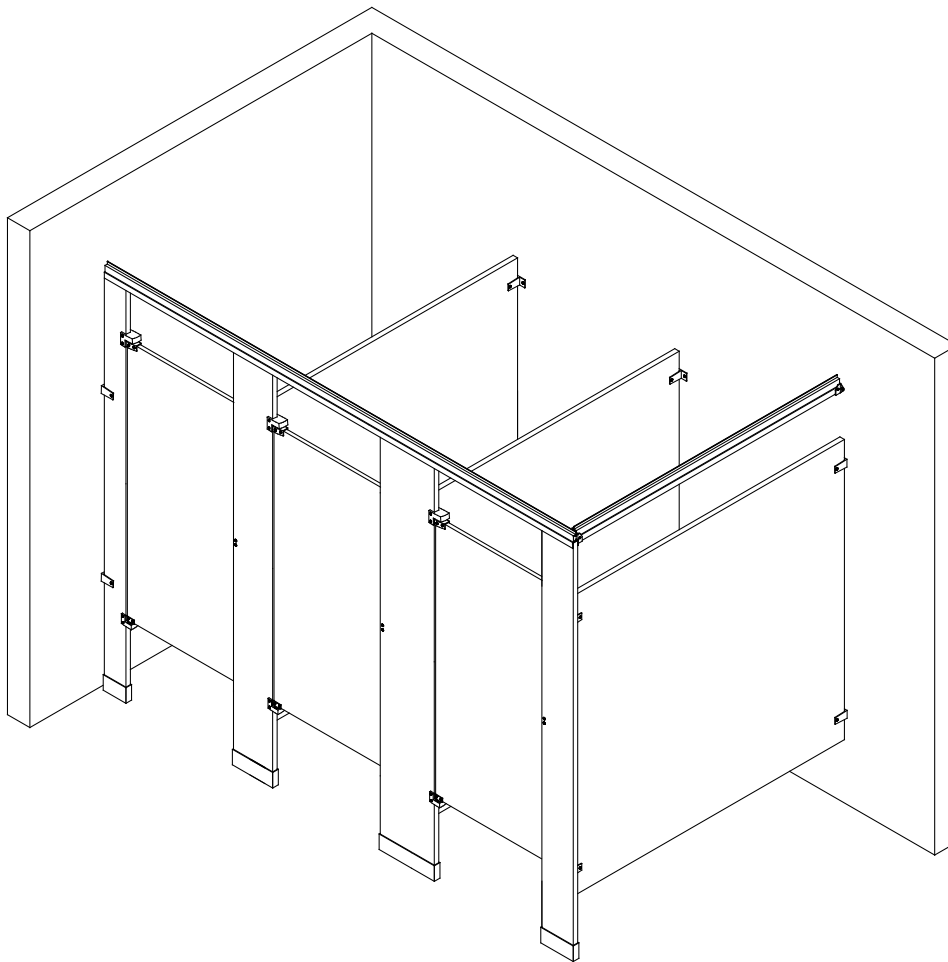




# Installation Instructions

## AMPCO Compact Laminate (Phenolic) Toilet Partitions



AMPCO Florida  
11400 NW 36<sup>th</sup> Avenue  
Miami, FL 33167  
T. 305.821.5700  
florida@ampco.com

AMPCO Texas  
201 Railroad Avenue  
Sanger, TX 76266  
T. 940.458.7401  
texas@ampco.com

AMPCO Washington  
4520 B Street NW, Suite B  
Auburn, WA 98001  
T. 852.253.5900  
washington@ampco.com



**Compact Laminate (Phenolic)  
Installation Instructions**

Before you begin, please note the following considerations:

Safety First! Please use proper safety gear when performing any installation.

Review all jobsite conditions for any compromises of safety and report all concerns to project superintendents.

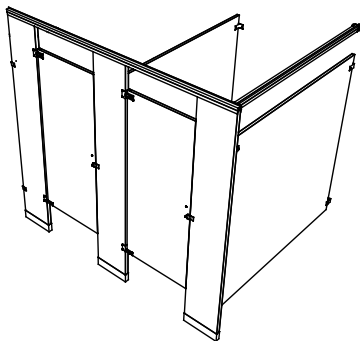
Verify that adequate blocking has been installed behind all walls for bracket attachments.

Shop drawings provided will supply all compartment material type, hardware supplied, construction type, compartment widths, depths, ceiling heights, individual component sizes.

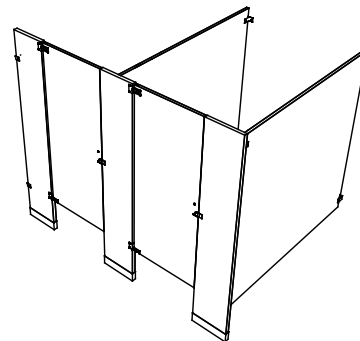
You will need the shop drawings to determine centerline dimensions and drilling locations.

Upon receipt of material and shake out, be certain that all items indicated on the hardware packing list and job list are included.

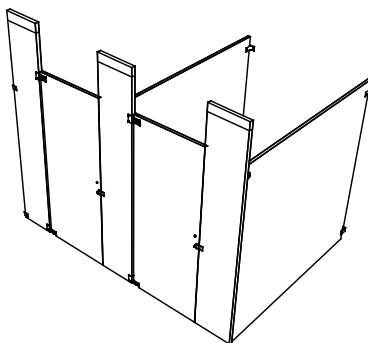
Be sure to review Storage and Handling instructions enclosed for proper storage of this material.



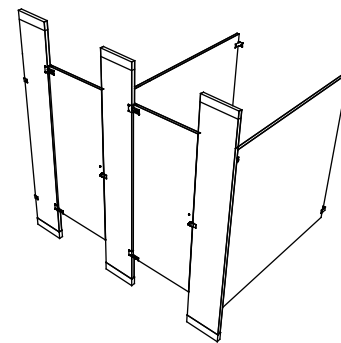
OVERHEAD BRACED



FLOOR MOUNTED



CEILING HUNG



FLOOR TO CEILING



### Storage and Handling

STORE ALL MATERIAL FLAT, ON A LEVEL ELEVATED SURFACE ABOVE FLOOR OR DECK.

NEVER STORE PANELS VERTICALLY ON THE ENDS OR SIDES.

NEVER STORE MATERIAL ON EDGE OR LEANING AGAINST A WALL.

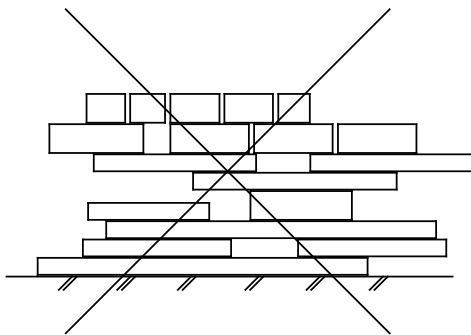
STORE ALL LARGER SIZE PIECES ON BOTTOM WITH SMALLER SIZE PIECES ON TOP TO PREVENT ANY OVERHANGING OR SAGGING AROUND EDGES.

STORE IN A DRY CLEAN ENVIRONMENT WITH RELATIVE HUMIDITY BETWEEN 40% AND 60%.

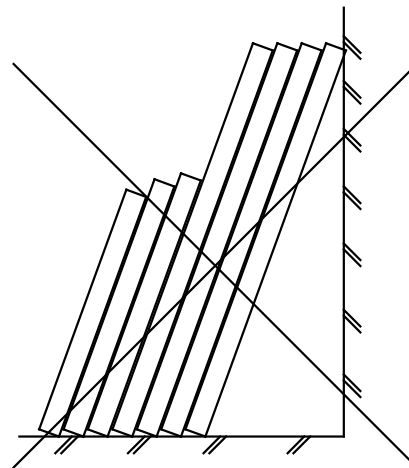
DO NOT SLIDE FACE OF ONE PIECE ON THE FACE OF ANOTHER.

WARPAGE MAY OCCUR DURING THE HEATING SEASON UNTIL MATERIAL BECOMES CONDITIONED TO THE HUMIDITY AND TEMPERATURE OF THE BUILDING. MOST DOORS, PANELS AND PILASTER WILL BECOME STRAIGHT AFTER THEY GO THROUGH THE COMPLETE HEATING AND COOLING CYCLE. AMPCO PRODUCTS LLC, RESERVES THE RIGHT TO DEFER REPLACEMENT FOR ONE YEAR FROM THE DATE OF SHIPMENT.

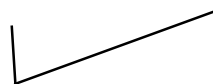
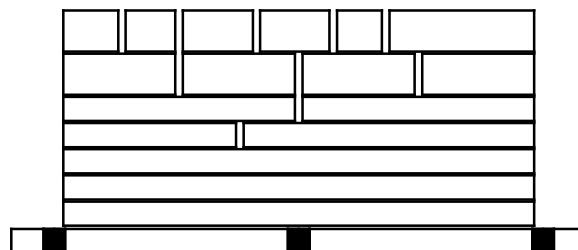
WRONG WAY



WRONG WAY



CORRECT WAY

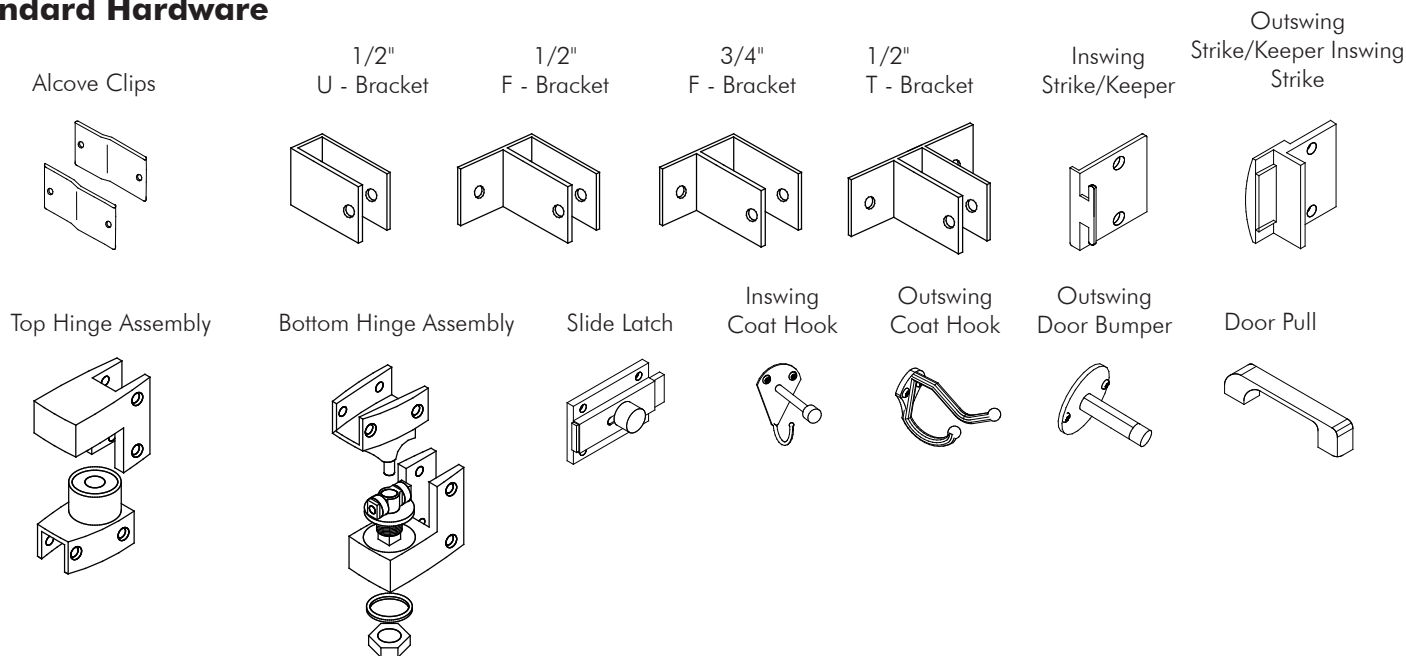




## Recommended Tools

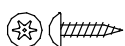
Safety Glasses, Chalk Line, Level, Drill, Center Punch, Screw Drivers, Shims, 12" Support For Panel Installation, (2) 14MM Wrenches, Hammer, Hack Saw, T20 & T27 Security Bits ( Included)

## Standard Hardware

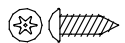


## Fasteners

#10 x 5/8"  
Six Lobe Tap Screw



#14 x 5/8"  
Six Lobe Tap Screw



#10 x 5/8"  
Flat Head 6-Lobe Screw



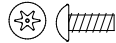
#12 x 2"  
Six Lobe Anchor Screw



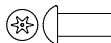
#8-32 x 1/2"  
Unslotted Barrel Nut



#12 x 7/16" Six  
Lobe Blunt Screw



#10-24 x 1/2"  
Barrel Nut



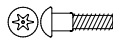
#10-24 x 5/8"  
Barrel Nut



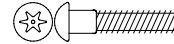
#10-24 x 3/8"  
Shoulder Screw



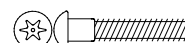
#10-24 x 3/4"  
Shoulder Screw



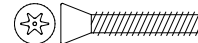
#10-24 x 15/16"  
Shoulder Screw



#10-24 x 1-1/16"  
Shoulder Screw



#8-32 x 1"  
Oval 6-Lobe Screw



#8-32 x 1-3/8"  
Oval 6-Lobe Screw

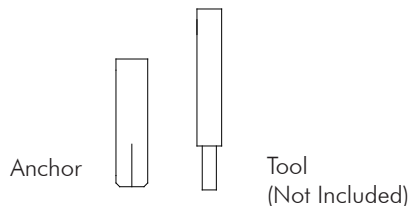


## Anchors

Plastic Anchor



3/8"  
Drop-In Anchor  
& Setting Tool



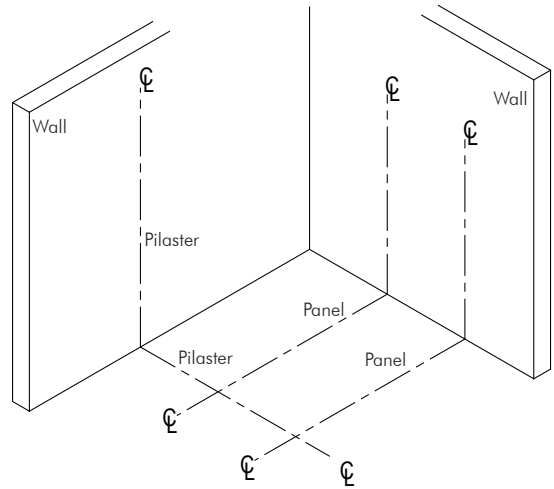
3/8" Double  
Expansion Anchor





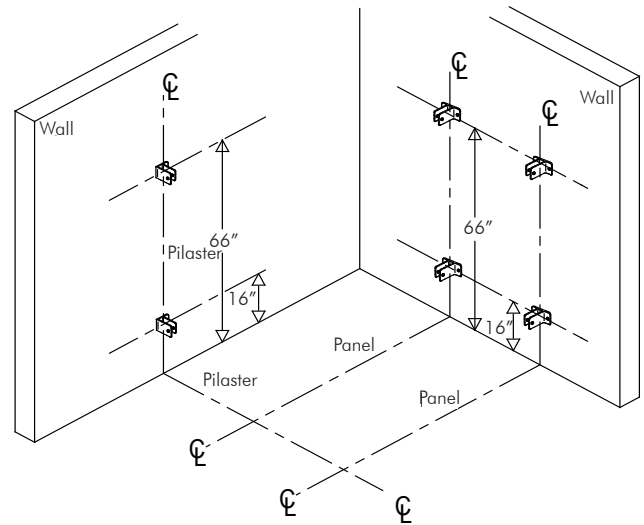
### Step 1 - Centerlines

- Using shop drawings provided, review layout to verify panel and pilaster positions.
- Determine and mark panel centerlines on floor and walls.
- Determine and mark pilaster center lines on floor and walls and also on ceiling if ceiling connection is required.
- Using a chalk line, snap all centerlines as marked on walls and floor, also on ceiling (if ceiling connection is required) as determined by compartment style.



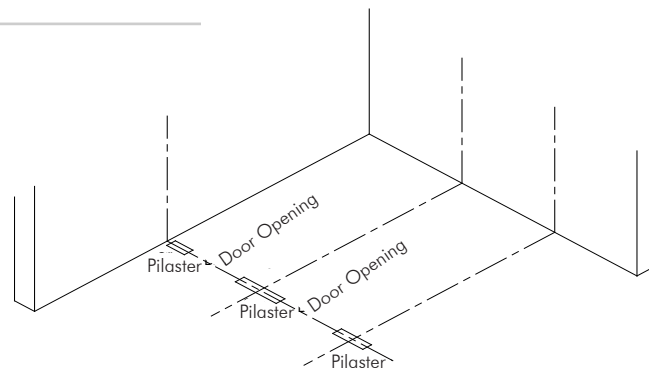
### Step 2 - Wall Brackets

- The height of the wall brackets are shown on the elevation page of the shop drawings and also in this step.
- Using the wall brackets as a template mark the hole positions for mounting.
- For hollow walls, wood blocking must be inside walls to receive wall screws.
- For masonry walls use a 1/4" drill bit to drill holes 2" deep and insert plastic wall anchors provided.
- Use #12 x 2" anchor screws to secure brackets to walls.



### Step 3 - Pilaster Location

- Using the shop drawings as a reference, mark the foot print of pilaster positions on the floor. If compartments are ceiling hung, perform this step on ceiling. Be sure to make correct allowances for the wall gaps and door openings.
- Using the pilaster anchoring details in step 4, proceed to install required floor &/or ceiling anchors for pilasters.

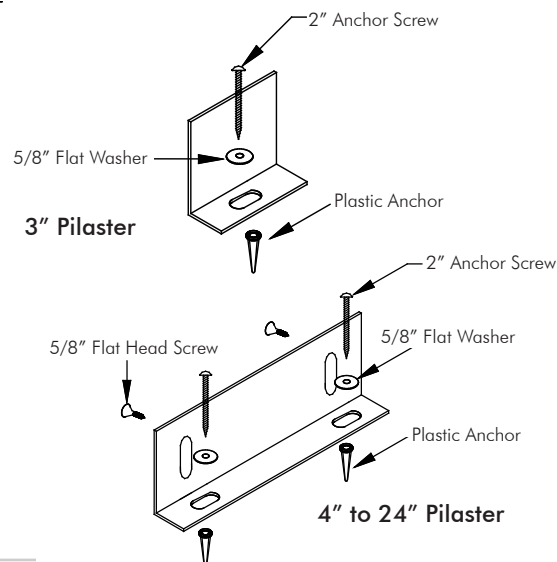




## Step 4 - Pilaster Anchor

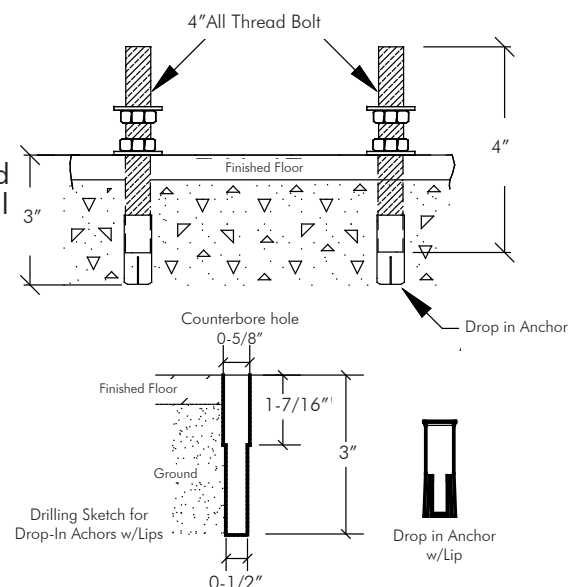
### 4a) L-Plate Floor & Ceiling Anchoring System

- Using location of the Pilaster on the floor (as determined in step 3) as a reference, use L-plate as a template to mark and drill two 1/4" holes in the floor 2" deep.
- With vertical section facing inside of compartment, mount L-plate to the floor using two plastic anchors, 3/8" flat washers and #12 x 2" anchor screws located in the HW31SL screw pack.
- For floor to ceiling construction, repeat the same as above on ceiling, if L-plates are specified per shop drawings.



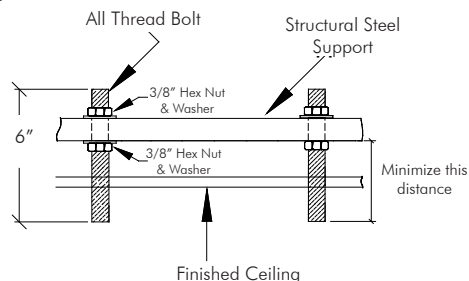
### 4b) Adjustable Bar Floor Anchoring System

- Using the location of the stile on the floor (as determined in step 3), mark holes for anchors 3/4" from the edge of pilaster along chalk line.
- With a 1/2" drill bit (if using the drop-in anchor) or a 3/4" drill bit (if using the expansion anchor), drill floor 3" deep and insert anchors provided in the HW32SL screw pack. If drop-in anchors with lip were provided, drill a 5/8" counter-bore hole 1-7/16" deep. See drilling sketch.
- If using drop-in anchor, use setting tool to expand anchor at this point.
- Attach 4" all-thread bolt to anchor with washer and nut. Tighten nut until expansion anchor is firm in the floor.
- Attach second nut and washer on rod with washer on top and turn down to about 1/4" from first nut.
- Attachment of adjustable bar mechanism will be made onto all-thread bolts when pilaster is being installed in step 8B.



### 4c) Ceiling Anchoring System

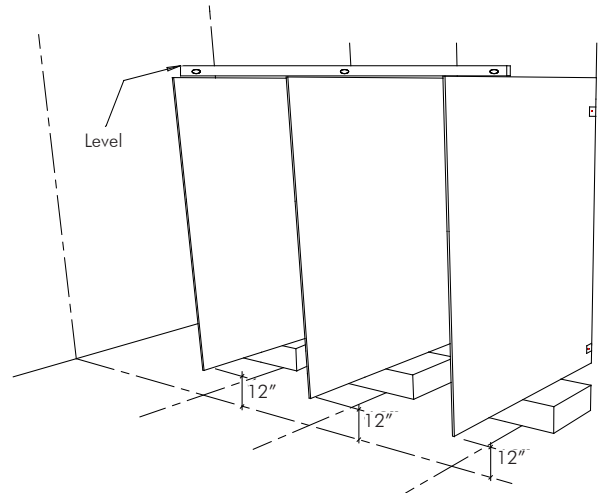
- All thread bolts should be installed above finished ceiling prior, using bolt layout provided from factory. If all threads are not installed, use bolt layout shop drawings to locate required positions.
- If structural steel ceiling bolt mechanism is not employed, please notify the contractor immediately of potential safety and warranty issues on function of system.
- 6" all thread bolts must be securely fastened with a nut and washer on the top and nut and washer on the bottom of the structural steel.
- If possible, minimize distance between bottom attachment at structural steel and attachment at the suspended pilaster. As this distance increases, so does the degree of lateral movement once the installation is complete.





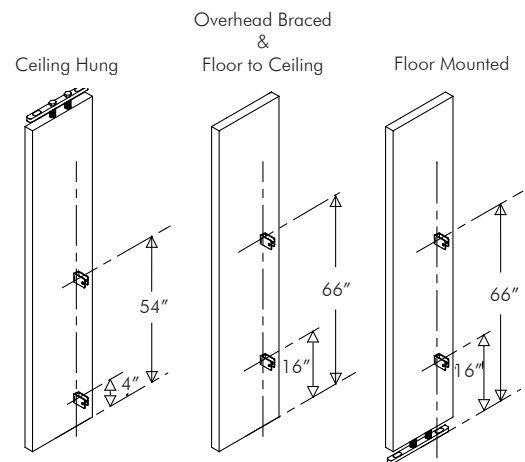
### Step 5 - Panel Placement

- Place 12" support on the floor to position panels in desired location. Height from the finished floor to the bottom of the panel should be 12".
- Review elevation page of shop drawings provided for additional details.
- Position panels in the wall brackets on the walls previously installed.
- Level and align panels following floor center lines.
- Do not secure panels to wall brackets at this time, this will be done in following steps.



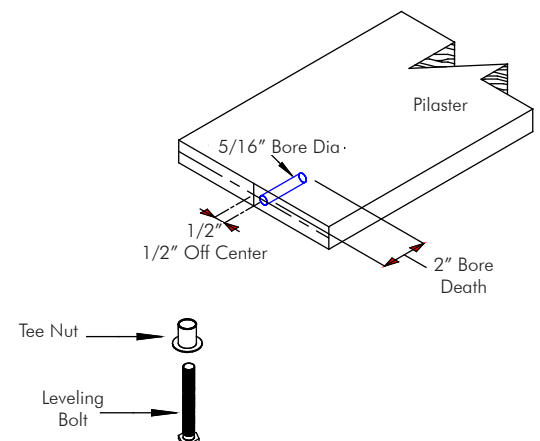
### Step 6 - Panel to Pilaster Bracket Prep.

- Using the shop drawings provided, determine and mark the center line location on the inside of the pilaster where the panel will be positioned.
- The height of the "U" bracket should match the height of the wall brackets shown on the shop drawings provided.
- Using the "U" bracket as a template, position bracket and mark hole locations.
- Drill a pilot hole using a 5/32" drill bit approx. 7/16" deep.
- Secure brackets to pilaster using #12 x 7/16" blunt screws provided. In panel screw pack HW21SL.



### Step 7 - Leveling Bolt (L-plate floor anchoring only)

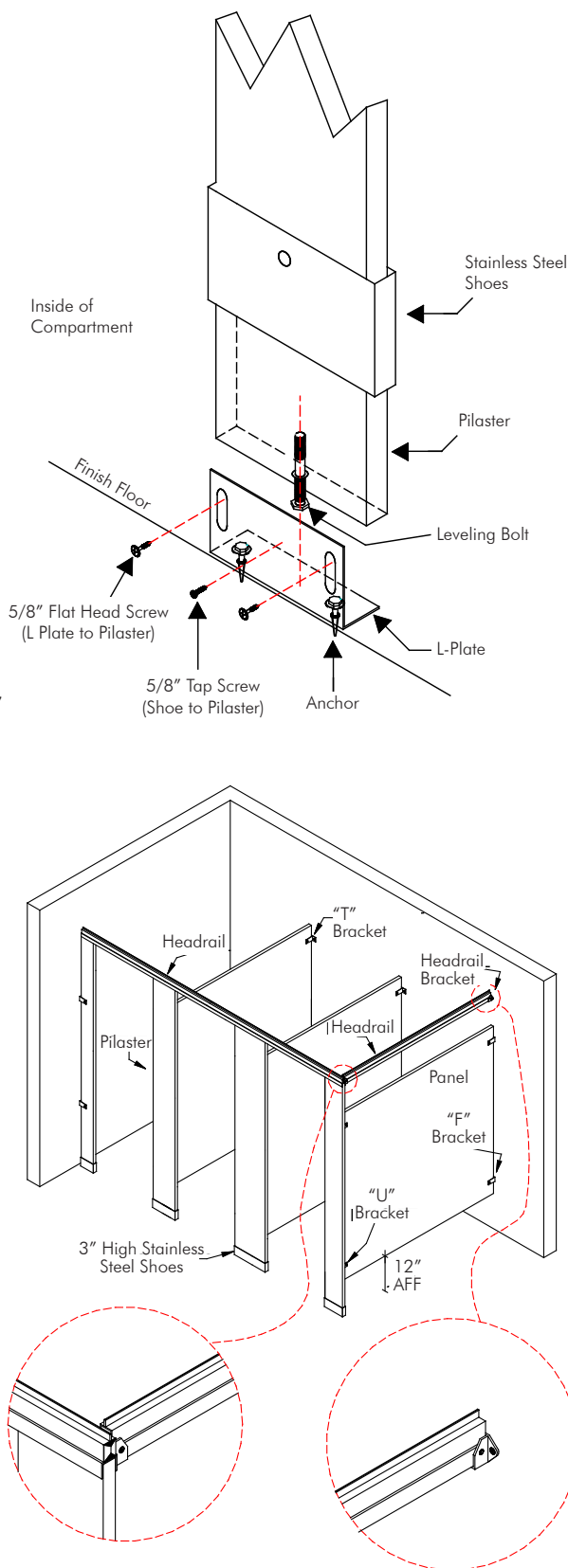
- For Overhead Braced & Floor to Ceiling pilasters with L-plate at floor connection. Install leveling bolt in bottom edge of pilaster.
- Position bolt 1/2" away from the center of the pilaster width to avoid conflict with tap screw used to secure shoe.
- If hole for leveling bolt is not pre-drilled from factory, use a 5/16" drill bit to drill a hole 2" deep then install a t-nut and leveling bolt.





### Step 8A - Over Head Braced Pilaster Installation

- Commercial restroom floors are generally sloped towards floor drain. If this condition exists, begin installation with the pilaster that will be positioned at the highest point on floor. The height of this pilaster should be used as reference for the remainder of the pilaster to be installed.
- Slide stainless steel shoe over pilaster, with pre-drilled shoe hole position at top and on the inside of compartment.
- Move pilaster into position on L-plate and position panel in "U" brackets installed on pilaster.
- Adjust pilaster height using leveling bolt if necessary.
- Level and plumb each pilaster Do Not secure shoe to pilaster at this point.
- Set desired panel to wall gaps and panel to pilaster gaps, and proceed to drill mounting holes through panel using a 1/4" drill bit.
- Secure and tighten panel to pilaster and panel to wall using 1/2" barrel nuts and 3/8" shoulder screw provided. (Use 3/4" shoulder screws and 5/8" barrel nuts for 3/4" panels)
- Next, overhead bracing must be installed using provided headrail. Our headrail is supplied in three different lengths, 65" 98" & 130".
- Using shop drawings, determine lengths required and cut and install headrail where indicated.
- Make final adjustments to door openings following measurements found on shop drawings and secure headrail to top of pilaster.
- Headrail will be secured to each pilaster by using (1) #14 x 5/8" tap screw per pilaster found in the HW31SL screw packs.
- For pilasters 18"-24", secure L-Plate to pilaster using #10 x 5/8" flat head screws through pre-drilled slots. See HW31SL screw pack.
- Using a 3/16" drill bit, drill through L-plate at shoe hole location and use #14 x 5/8" tap screw found in the HW31SL screw pack to secure shoe to pilaster.
- Secure head rail to building walls where required using 615-HRRN screw pack provided.
- Install end caps provided where required.

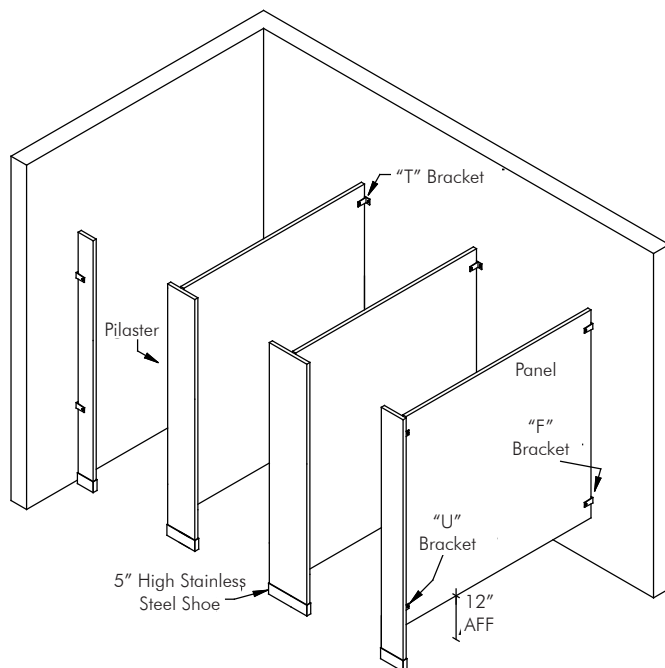
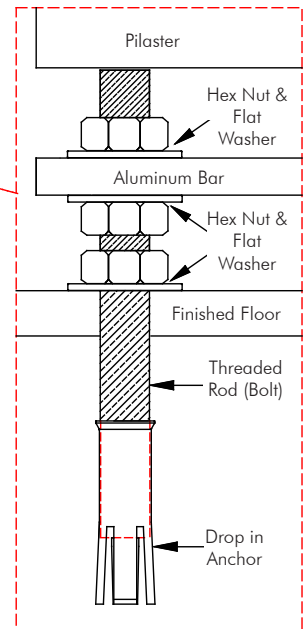
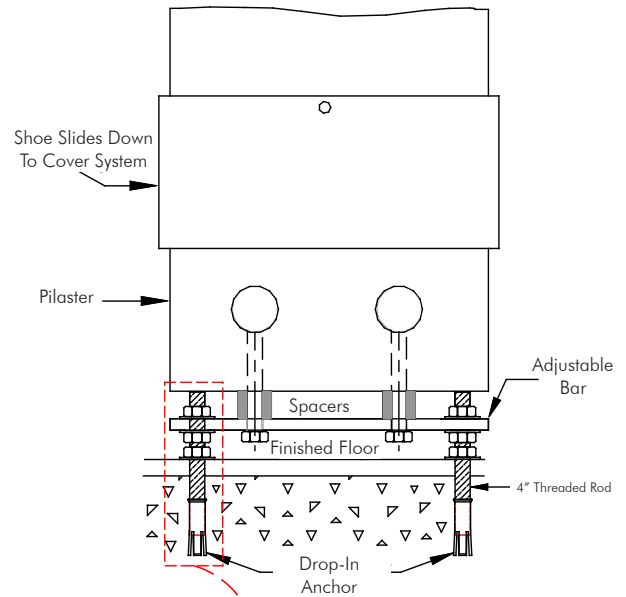






### Step 8B - Floor Mounted Only Pilaster Installation

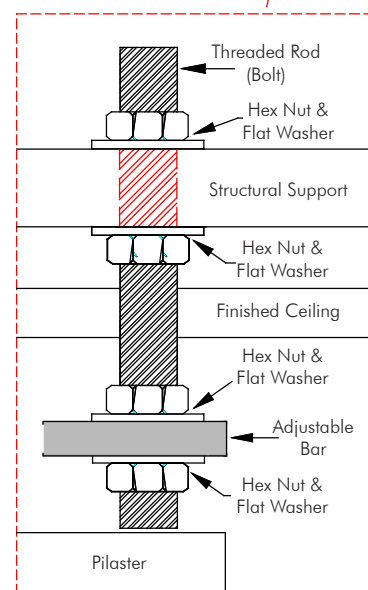
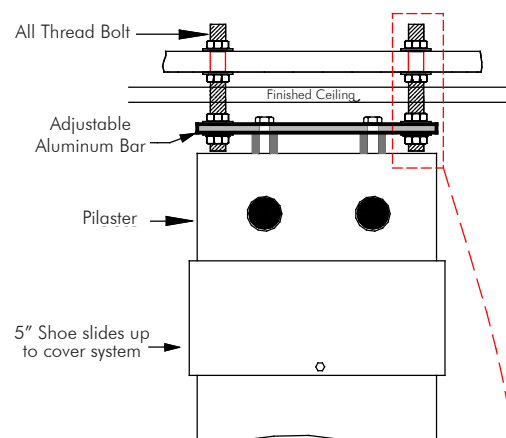
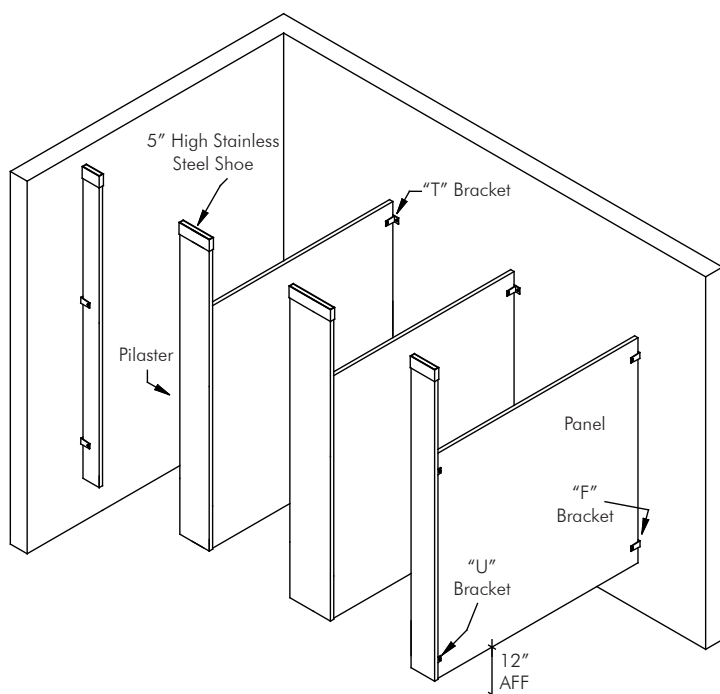
- Commercial restroom floors are generally sloped towards the floor drain.
- If this condition exists, begin the installation with the pilaster that will be positioned at the highest point on the floor. The height of this pilaster should be used as a reference for the remainder of the pilasters to be installed.
- Slide stainless steel shoe over the pilaster, with the pre-drilled shoe hole position at the top and on the inside of the compartment. Move pilaster into position on all thread rods and position the panel in the "U" brackets installed on pilaster.
- Install final washer and nut onto all thread rod and level and plum pilaster using the nuts above and below the bar. **DO NOT** tighten at this point.
- Set desired panel to wall gaps, panel to pilaster gaps, and proceed to drill mounting holes in the panel using a 1/4" drill bit.
- Secure and tighten panel to pilaster and panel to wall using a 1/2" barrel nuts and a 3/8" shoulder screw provided in panel screw pack HW21SL. (Use 3/4" Shoulder Screw and 5/8" Barrell Nut for 3/4" panels)
- Make final adjustments to door openings if necessary and tighten the top nut on to the adjustable bar to lock the pilaster into





### Step 8C - Ceiling Hung Pilaster Installation

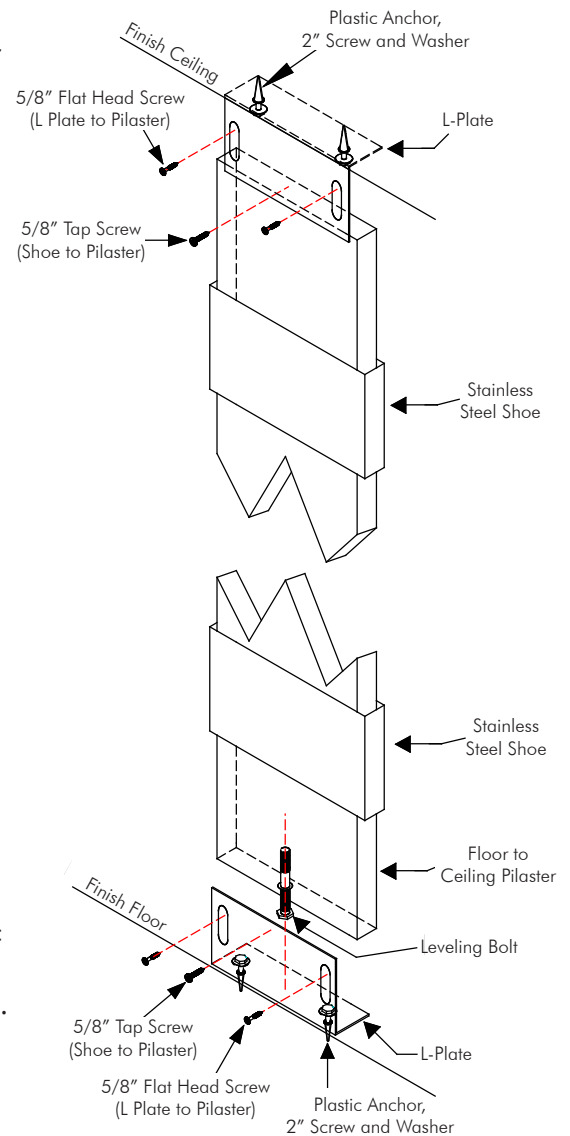
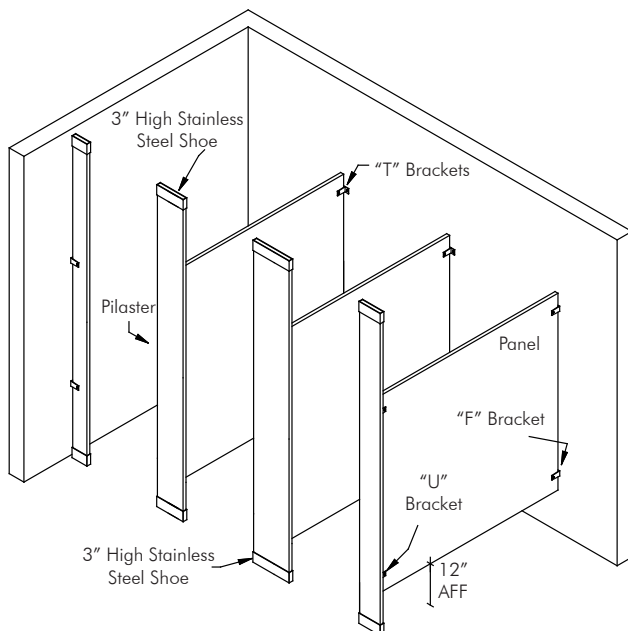
- Ceiling bolts (all thread rods) should be already installed in ceiling.
- Slide the stainless steel shoe over the pilaster with the pre-drilled shoe hole position at the bottom and on the inside of the compartment. Move the pilaster into position on all thread rods and position the panel in the "U" brackets installed on the pilaster.
- Install the final washer and nut onto all thread rod. Level and plum the pilaster using the nuts above and below the bar. **DO NOT** tighten at this point.
- As stated in step 4, if possible, minimize the distance between the bottom attachment at the structural steel and the attachment at the suspended pilaster. As this distance increases, so does the degree of lateral movement once the installation is complete.
- Set panel to the desired wall gaps, panel to pilaster gaps, and proceed to drill mounting holes in the panel using a 1/4" drill bit.
- Secure and tighten panel to pilaster and panel to wall using 1/2" barrel nuts and 3/8" shoulder screw provided in the HW21SL screw pack. (Use 3/4" Shoulder Screw and 5/8" Barrell Nut for 3/4" panels)
- Make final adjustments to door openings if necessary and tighten top nuts on to adjustable bar to lock the pilaster into position.





### Step 8D - Floor To Ceiling Pilaster Installation

- Slide stainless steel shoes over pilaster for ceiling and floor, with pre-drilled shoe hole position at the bottom for ceiling and at top for floor facing the inside of the compartment.
- Move pilaster into position on L-plate on floor and position panel in "U" brackets installed on pilaster.
- Adjust pilaster height using leveling bolt if necessary.
- Level and plumb each stile Do Not secure shoes to pilaster at this point.
- Set desired panel to wall gaps and panel to pilaster gaps, and proceed to drill mounting holes through panel using a 1/4" drill bit.
- Secure and tighten panel to pilaster and panel to wall using 1/2" barrel nuts and 3/8" shoulder screw provided in the HW21SL screw pack. (use 3/4" shoulder screws and 5/8" barrel nuts for 3/4" thick panels).
- Make final adjustments to door openings following measurements found on shop drawings.
- For pilasters 18"-24" secure L-Plate to pilaster using #10 x 5/8" flat head screws through pre-drilled slots. See HW31SL screw pack.
- Using a 3/16" drill bit, drill through L-plate at shoe hole location and use #14 x 5/8" tap screws found in the HW31SL screw pack to secure shoe to pilaster.
- Depending on construction specifications or requirements, one end of floor to ceiling pilaster may have an adjustable bar connection. If this exists please refer to Step 8B or 8C of these instructions for anchoring.

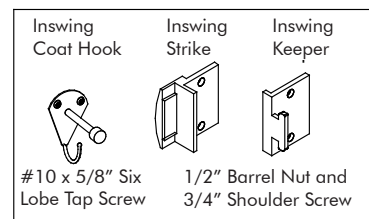




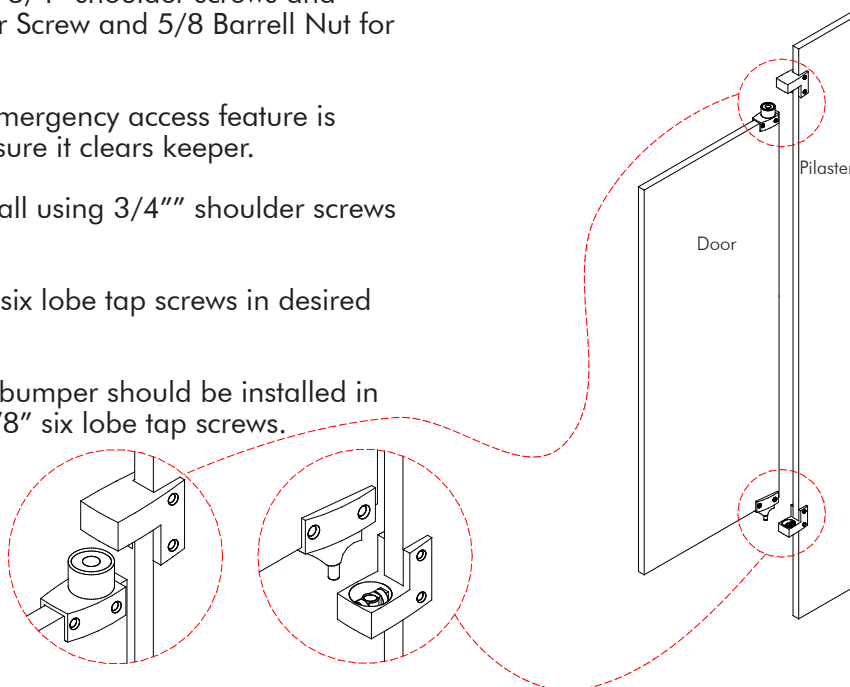
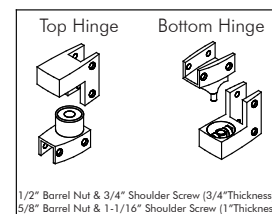
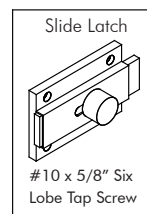
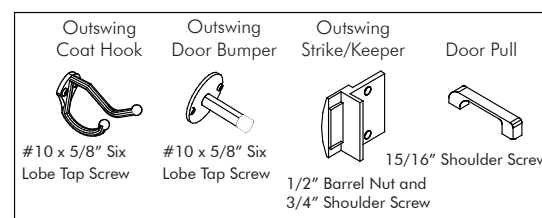
## Step 9 - Door Installation

- Doors should be installed at 12" AFF to match the panels as installed.
- Install both top and bottom hinge on door first. Mark holes with hinge in place and drill through doors to receive through bolts using a 1/4" drill bit.
- Secure hinge to door using 3/4" shoulder screws and 1/2" barrel nuts.
- Using door with installed hinge as a guide, position bottom hinge on pilaster ensuring that the door bottom will @ at 12" AFF, once secured.
- Mark holes with bottom hinge in place on pilaster and drill through Pilaster to receive through bolts using a 1/4" drill bit.
- Secure bottom hinge to pilaster using 3/4" shoulder screws and 1/2" barrel nuts. (1-1/16" Shoulder Screw and 5/8 Barrel Nut for 1" Pilaster)
- With door resting on bottom hinge installed, position top hinge on pilaster, ensure that spacing is set between hinge parts to allow door lift when functional.
- Adjust the roller bearing on the bottom hinge until required door rest position is achieved. Once in place tighten nut to secure.
- Install door latch at required height using #10 x 5/8" six lobe tap screws.
- Install door strike and keeper using 3/4" shoulder screws and 1/2" barrel nuts. (1-1/16" Shoulder Screw and 5/8 Barrel Nut for 1" Pilaster)
- Set door strike and keeper where emergency access feature is functional, test by lifting door to ensure it clears keeper.
- Where door pulls are required, install using 3/4" shoulder screws and 1/2" barrel nuts. provided.
- Install coat hook using #10 x 5/8" six lobe tap screws in desired location.
- For out-swing application the door bumper should be installed in desired location using the #10 x 5/8" six lobe tap screws.

In-Swing Door Hardware



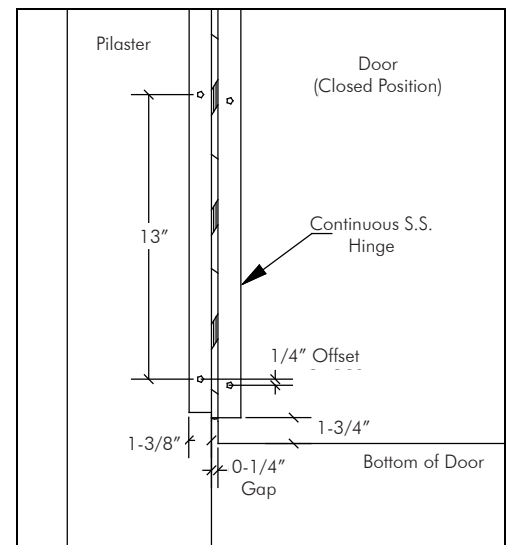
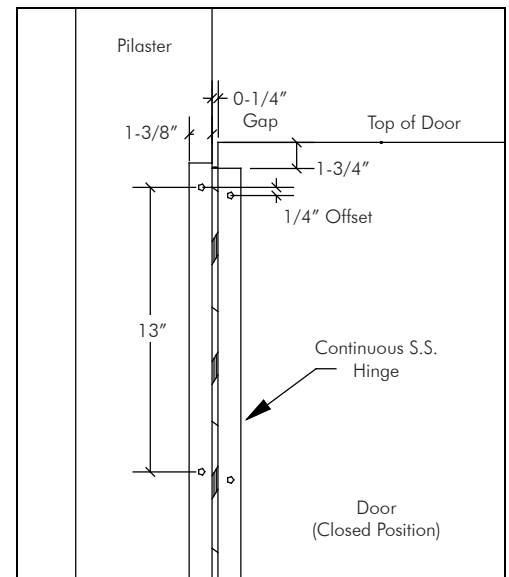
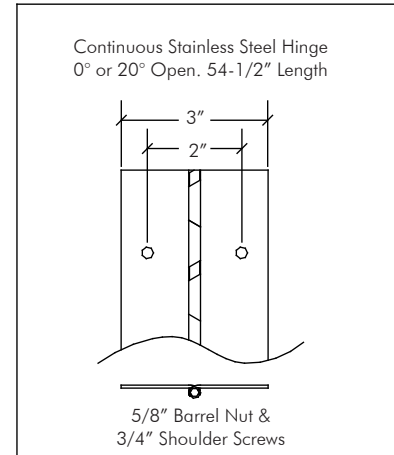
Out-Swing Door Hardware





### Step 9A - Door Installation (Continuous S.S. Cam Hinges)

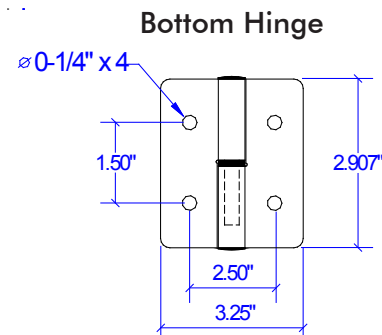
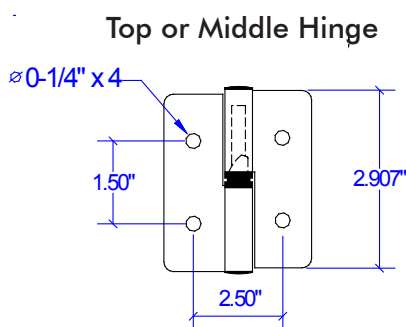
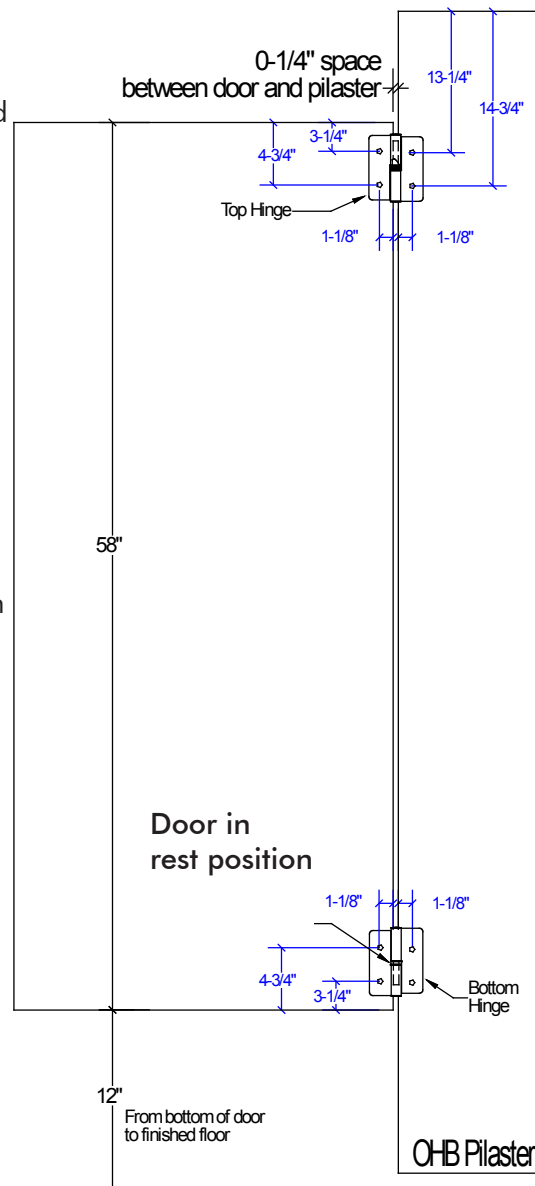
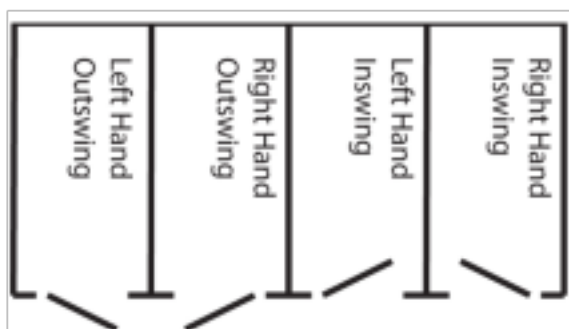
- Continuous stainless steel cam hinges are designed for 20 degree or 0 degree resting position. All H/C doors, whether they are in-swing or out-swing, are required to be set to 0 degree closed position.
- Inswing doors have hinges mounted on the inside of the stall; Outswing doors have hinges mounted on the outside of the stall.
- Please refer to shop drawings to determine the correct swing of each door before proceeding.
- Install the continuous hinges in the closed position.
- Once the opening has been identified, Measure 14" from finished floor and mark the pilaster. This will be the location of the bottom of the hinge.
- Using the hinge as a template, locate and mark the holes necessary to mount the hinge to the pilaster.
- Be certain that the door swing and handing is correct.
- Drill 1/4" holes through marked locations and proceed to mount the hinge to pilaster using the 1/2" shoulder screws (15/16" shoulder screws for 1" thick pilasters) and 5/8" barrel nuts provided.
- Place 12" support on the floor to position door in desire location. This height should coincide with panel height from finished floor.
- Make sure to mount the pin and barrel at least 1/8" off door edge. This will ensure a clearance of at least 1/4" on hinge and lock side of door.
- Once again using the hinge as a template, mark and drill 1/4" holes into door. Mount the hinge using the 5/8" barrel nuts and 1/2" shoulder screws provided (15/16" shoulder screws for 1" thick doors).
- Install door slide latch at required height using #10 x 5/8" six lobe tap screws.
- Install door strike and keeper using 3/4" shoulder screws and 1/2" barrel nuts. (1-1/16" shoulder screw and 5/8" barrell nut for 1" pilasters).
- Set door strike and keeper where emergency access feature is functional, test by lifting door to ensure it clears keeper. (See page 13 for out-swing latch installation).
- Where door pulls are required, install using 1-1/16" shoulder screws provided.
- Install coat hook using #10 x 5/8" six lobe tap screws in desired location.





### Step 9B - Door Installation (S.S. Surface Mounted Hinges)

- Surface mounted hinges are handed for left hand (LH) or right hand (RH) swing. The same hinge may be used for LH inswing or RH outswing. The opposite hinge would be used for RH inswing and LH outswing.
- Locate and mark the holes for hinge leafs to pilasters as per drawings.
- Drill pilaster for thru-bolts (barrel nut and shoulder screw) and set hinges.
- Locate and mark the holes for the upper hinge leaf to door. Adjust male pintle as necessary to achieve desired closed or "rest" position.
- Drill door for thru-bolts (barrel nut and shoulder screw) and set top hinge.
- With door in the rest position, locate and mark the holes for bottom hinge leaf on door with 1/2" spacer in place as per drawing. This is to allow for the rise of the door when opening. Make sure bottom of door is at 12" AFF.  
**Remove spacer before installing fasteners.**
- Install retaining clip into pin to prevent the pin from coming out.
- Drill door for thru-bolts (barrel nut and shoulder screw) and set bottom hinge.
- To reverse the handedness of the hinge, remove the nylon inserts from the top hinge and insert them into the bottom hinge. Remove the plastic inserts from the bottom hinge and insert them into the top hinge. This will change the direction of the swing.
- To adjust position of the door closing, drive pintle from bottom leaf of top door hinge and turn to desired position.

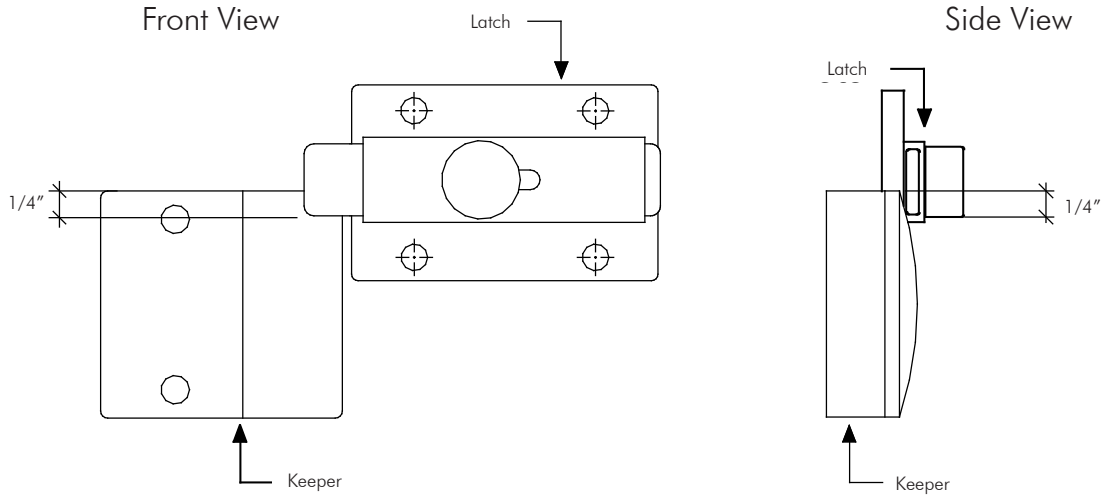


**Note:**

Installer must verify that the hinges provided match the dimensions on these instructions prior to installation. Installer must also take in consideration floor conditions in the field prior to drilling and installing hinges.



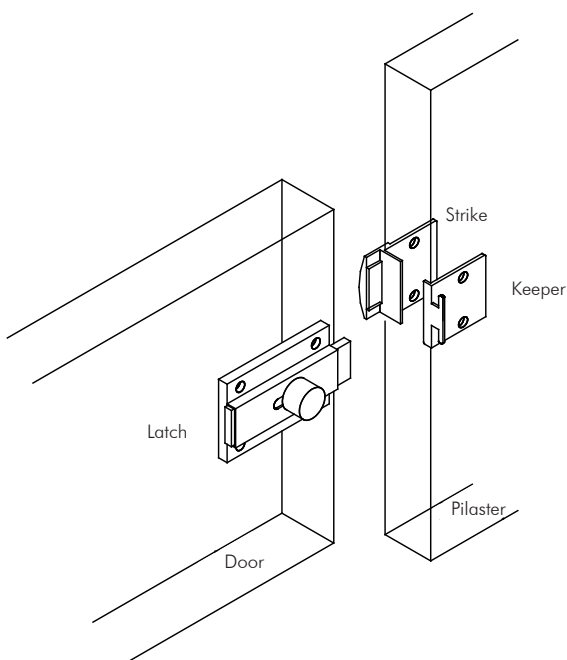
### Outswing Door Latch and Keeper Installation



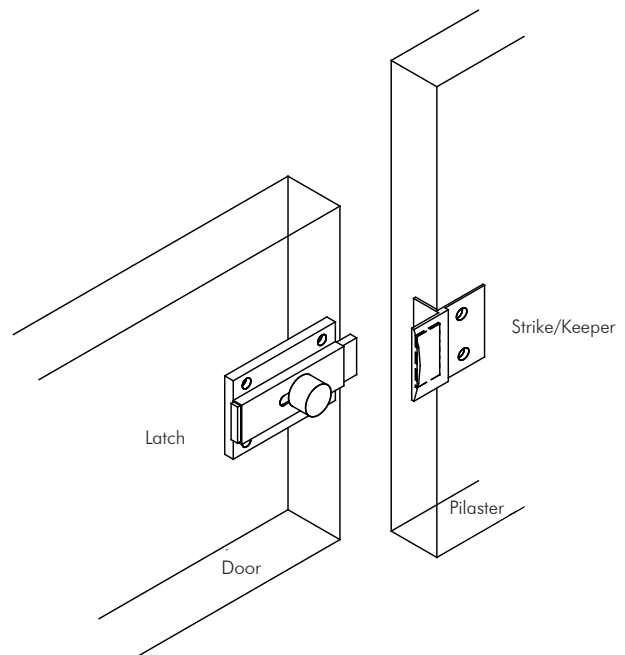
#### INSTRUCTION FOR OW3 PACKS (OUTSWING)

Position slide latch where latch bolt throw is within  $1/4"$  from the top of stop/keeper. This will allow latch bolt to secure behind stop/keeper and allow emergency access feature as required by specification.

### Inswing Door



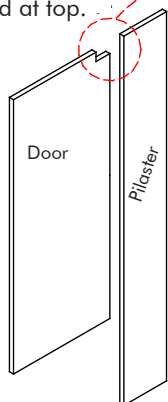
### Outswing Door



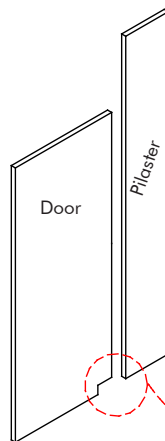


**Door Hinge Cut-Out for Ceiling Hung & Floor Mounted Partitions Only**  
(For Standard Vault Type Hinges Only)

Hinge cut-out must be positioned at top.



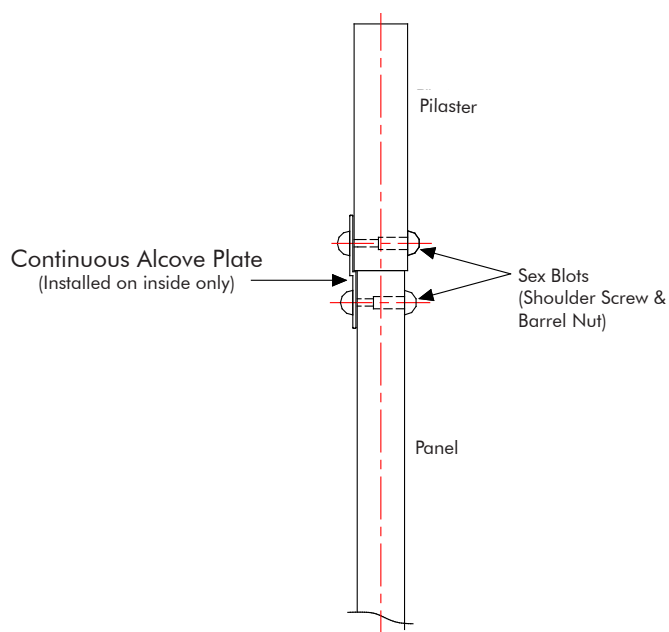
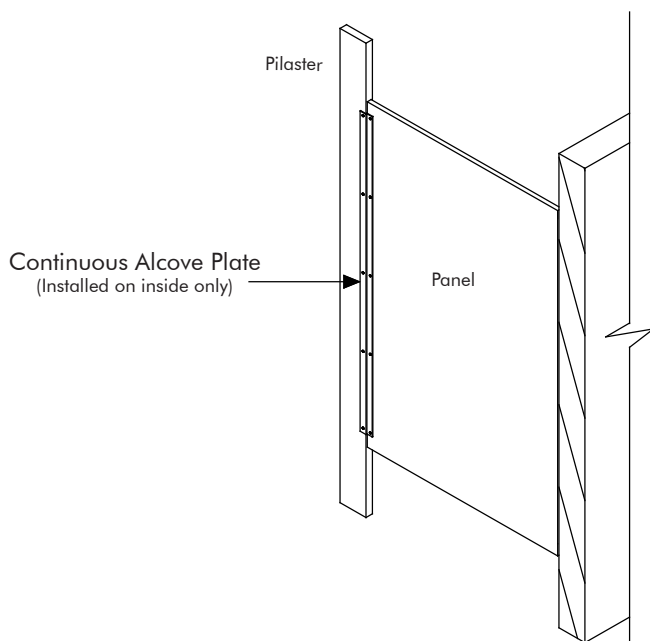
Floor Mounted



Hinge cut-out should be positioned at bottom.

Ceiling Hung

**Continuous Alcove Plate**  
(1 ea. per alcove connection, supplied when continuous brackets are provided)

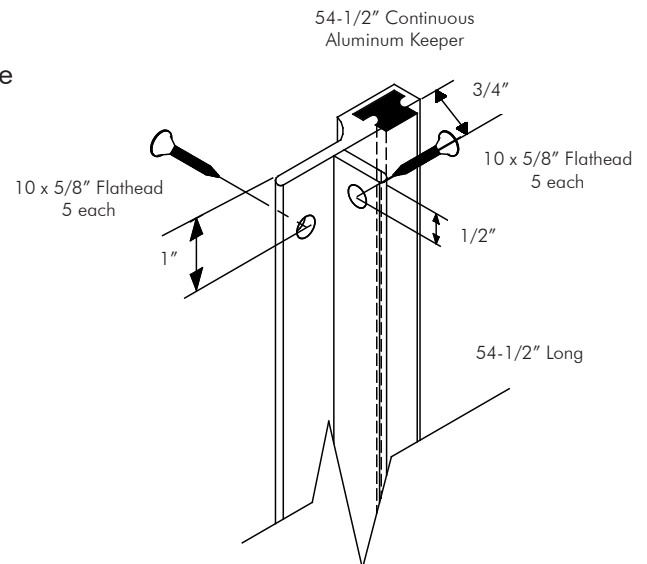
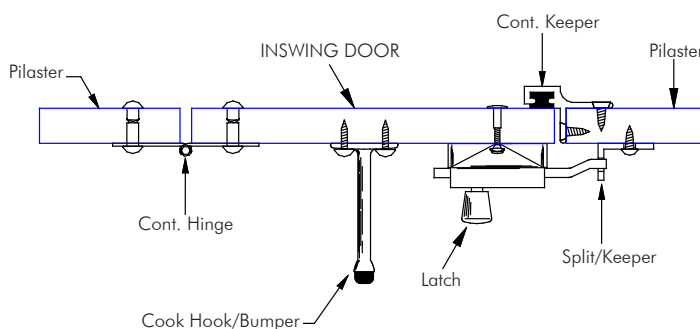
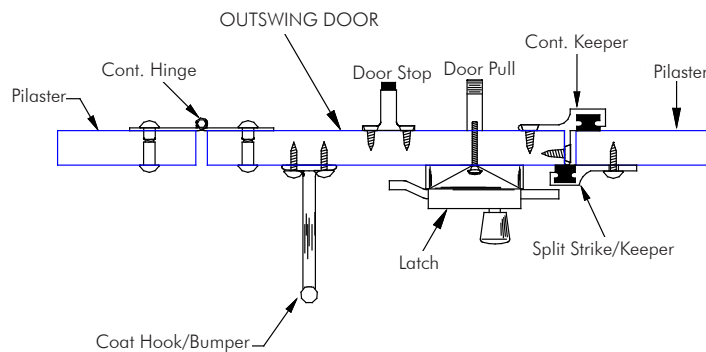
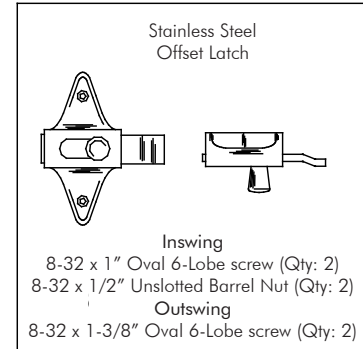
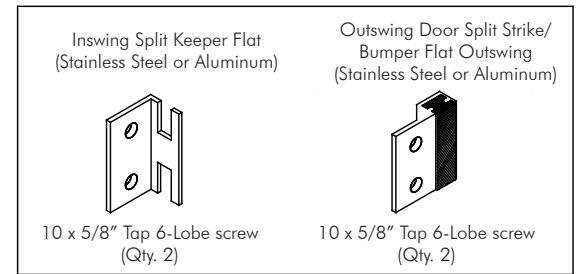






### Step 9A - Door Installation (Continuous S.S. Hinges)

- The Continuous Aluminum Keepers are 54-1/2" long and can be installed on in-swing or out-swing doors. It requires ten (10) 10 x 5/8" Flat Head Screws for installation.
- Please refer to shop drawings to determine the correct swing of each door before proceeding.
- Inswing doors require cont. aluminum keepers to be installed on outside face of pilaster and a split keeper for emergency access feature on the inside face of pilaster.
- Outswing doors require cont. aluminum keepers to be installed on outside face of doors and split strike for emergency access feature on the inside face of pilaster.
- Using the continuous keeper as a template, locate the holes necessary to mount the keeper to the pilaster or door.
- Install door latch for inswing doors at required height using 8-32 x 1" oval ss 6 lobe shoulder screws and 8-32 x 1/2" unslotted barrel nuts. For outswing doors, install door latch along with door pull using two 8-32 x 1-3/8" shoulder screws.
- Install door strike and keeper using 10 x 5/8" Flat Head 6-Lobe screws.
- Set door strike and keeper where emergency access feature is functional, test by lifting door to ensure it clears keeper.

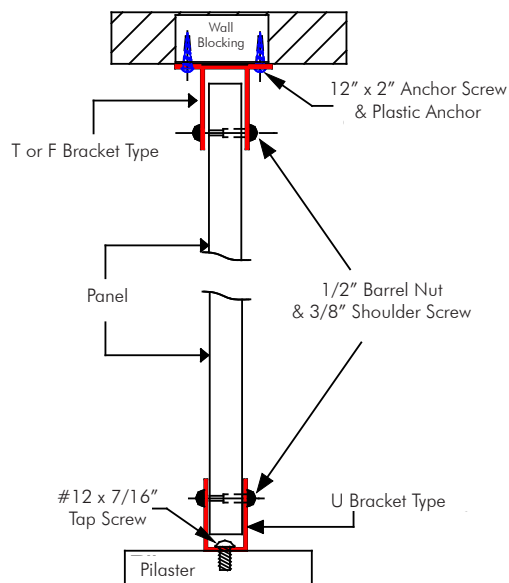




**Panel to Wall/Panel to Pilaster**

Bracket-Pack (453-PSS) or (453-PSSE)

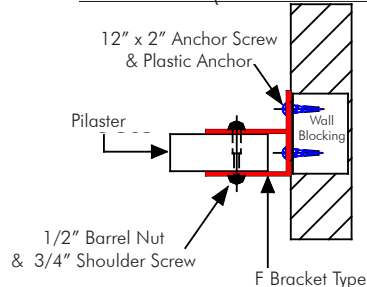
Screw-Pack (453-HW21SL)



**Pilaster to Wall**

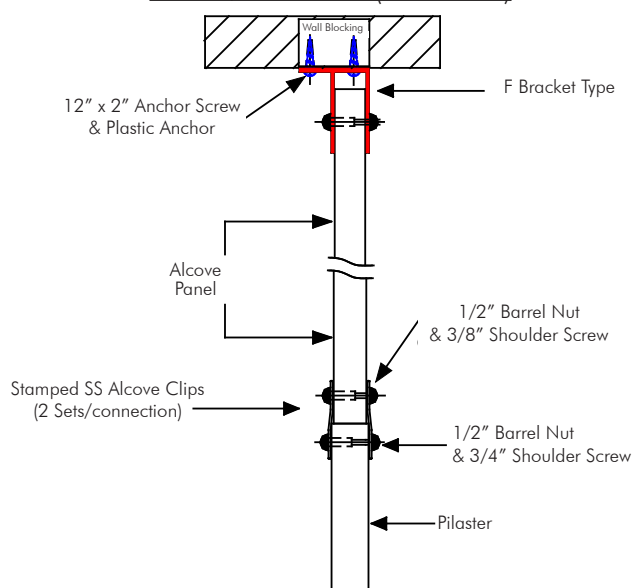
Bracket-Pack (404-BWT-S)

Screw-Pack (453-HW11 3SL)



**Alcove Panel**

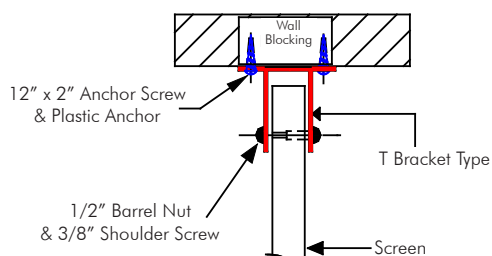
Bracket/Screw-Pack (610-SQRA)



**Wall Hung Urinal Screen**

Bracket-Pack (453-US KIT)

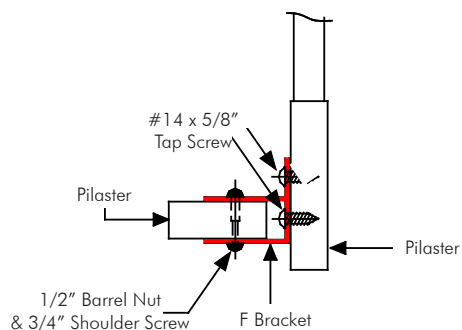
Screw-Pack (453-HW41SL)



**Pilaster to Pilaster/Panel**

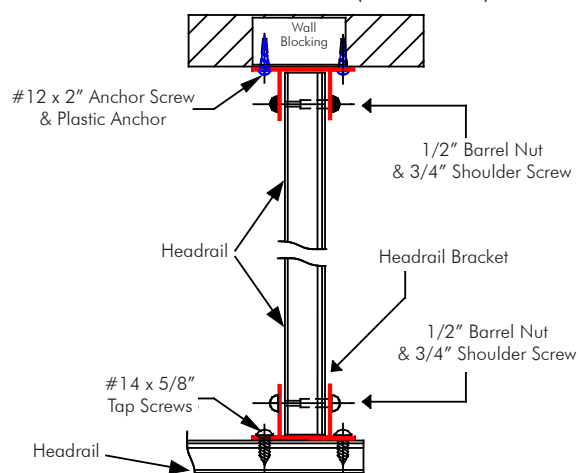
Bracket-Pack (404-BPT-S)

Screw-Pack (453-HW12 3SL)



**Headrail to Wall/Headrail**

Bracket/Screw-Pack (615-HRRN)





### DISCLAIMER OF LIABILITY

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