

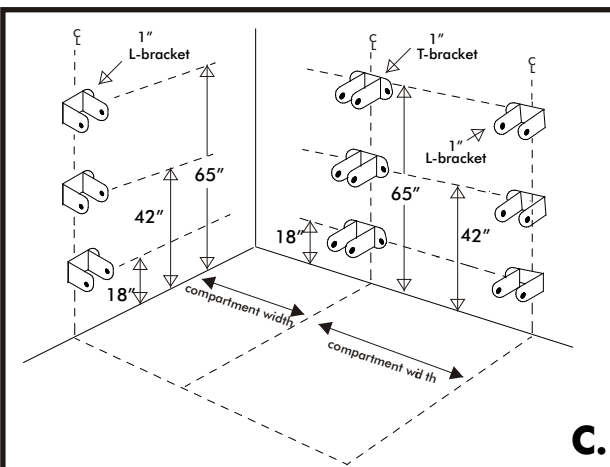
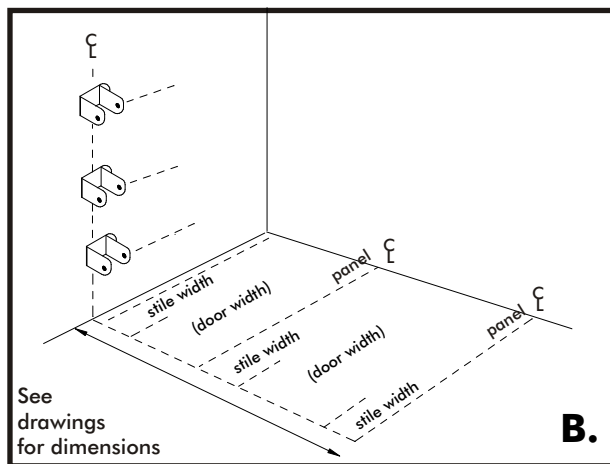
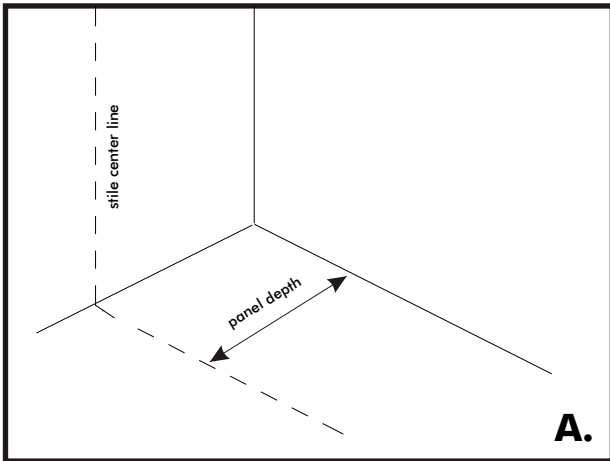
AMPCO TOILET COMPARTMENTS

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INSTALLATION INSTRUCTIONS

for Solid Plastic Polyethylene
Overhead Braced and Floor-to-Ceiling Construction



These instructions are current as of July, 2004. Ampco reserves the right to modify the procedure. Before you begin, please note the following considerations: Safety First! Use proper safety gear when performing any installation. Review all jobsite conditions for any compromises of safety and report all concerns to project superintendents. Please verify that adequate blocking has been installed behind all walls for bracket attachments. Restroom compartment rigidity and function require adequate wall backing.

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.

DISCLAIMER OF LIABILITY. Ampco has no control over the method of installation of the product you have purchased. Ampco has provided written instructions for the installation of the product herein as a guide to the installation process. These instructions are not meant to be all encompassing. There might exist material components of an installation that are not addressed in these instructions. The product must be installed by an experienced, qualified and fully insured installer. Ampco does not maintain any control or dominion over the selection of the installer used to install the product, the method of installation of this product, and does not inspect the product once it has been installed. Therefore, and in light of the foregoing, Ampco assumes no liability and the customer assumes all liability for any damages that result from the improper installation, inappropriate selection of an installer, and/or failure to follow the installation instructions provided herein.

Step 1: Determine the depth of the toilet partitions from the shop drawings provided in the hardware box. The centerline of each stile location is $\frac{1}{2}$ inch less than the overall depth dimensions indicated on the shop drawings. (Note: Stiles with aluminum strip are to be used for the mounting of doors 26" or more, i.e. Handicap doors.) Mark this depth and snap chalk lines as illustrated (Fig. A). These lines will be the centerline for the stile to wall brackets. (Note: the actual panel size is $2\frac{1}{2}$ inches less than the overall depth.)

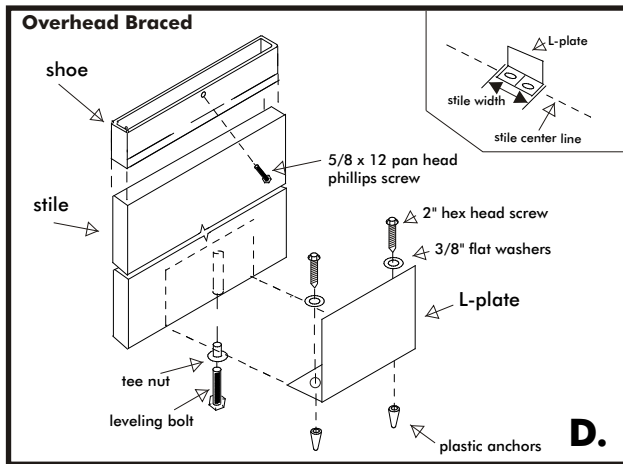
The width of the compartments are measured from the side walls to the centerline of each panel. From the side wall measure along the center line of the stiles to locate the stile floor attachments (Fig. B). The size and location of each stile is indicated on the shop drawings. Please follow the shop drawings carefully. The distance between the first stile and the existing side wall is indicated on the shop drawing. Mark the centerline of all full height wall brackets and standard stirrup brackets. Mark all bracket holes to be drilled using the brackets provided as a template. For three (3) standard stirrup brackets, mark the center line location of each bracket at 18, 42 and 65 inches above the finished floor (Fig. C). Drill $\frac{1}{4}$ " holes for all wall brackets and floor attachments. Insert plastic anchors into the drilled holes. Secure wall brackets with fasteners provided in the HW-11 pack or HW-21 pack. Secure all floor attachments or L-plates with fasteners provided in HW-33 or HW-31 pack. Typically, the commercial restroom will have a slope for water drainage. Determine which of the L-plates in the room is the highest elevation. This stile must be installed first. All other stiles will be elevated to match its height through adjustment of the leveling bolts inserted in the next step.

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Step 2: Wherever possible, place wall anchors in the grout lines of wall tile or mortar joints of cement block. For all drywall partition walls, wood or metal backing must be provided by the contractor. All solid plastic partition material are one inch nominal thickness. All intermediate panel brackets will be a "T" profile. All panel to stile connections will be a "U" profile. All stile to wall and end panel brackets will be an "F" profile (Fig. C). Locate and fasten all brackets and floor attachments prior to Step 3.

Step 3: In preparation of the stiles or pilasters, locate, position and fasten the "U" bracket(s) behind the outside face of each stile. Drill 1/8 inch pilot holes one half inch into the back of the stiles. Refer the shop drawings to identify each stile width, its location in the room and the panel it will be mounted onto. The center line location of these brackets are determined by the shop drawings. Drill and locate the T-nut and leveling bolt in the center on the bottom of each stile (Fig. D). Drill a 3/8 inch hole two (2) inches deep into the stile. Slide appropriately sized stile shoe onto the bottom of each stile. Insure the punched hole of the shoe is up and located on the back side of the stile (Fig. D). Hold in place with masking tape eight (8) inches above the attachment points, temporarily.

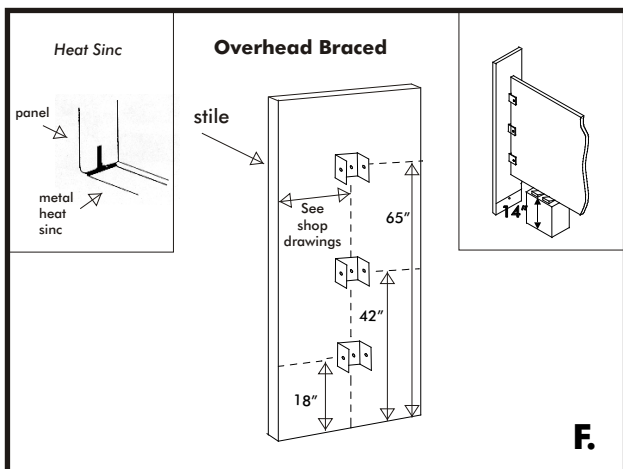
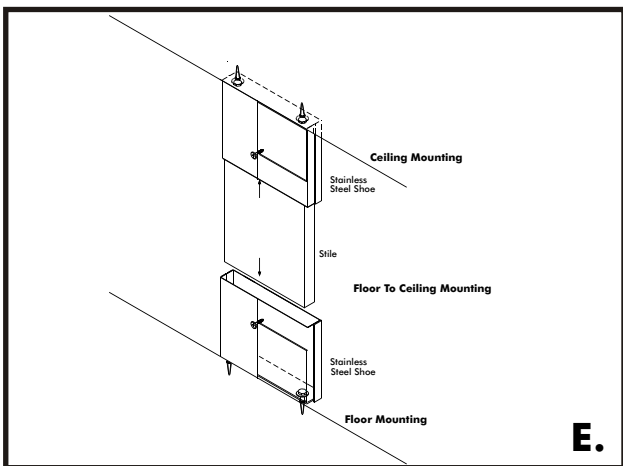
For Overhead Braced Constructions:

- A. Drill a 2 inch deep by 3/8 inch diameter hole in the bottom center of each stile. Tap 5/16 inch tee nut and leveling bolt into the hole. The floor fasteners and anchors are found in the HW-31 pack.
- B. Put shoe on each stile taking care to locate pre-drilled shoe hole so that it will be on the inside of the compartment with the hole on top (Fig. D). For overhead braced construction, stile shoe is located on the bottom of each stile.
- C. Determine the location of the stile on the floor (as shown in Step 2). Using L-plate as a template, mark and drill two (2) 1/4 inch holes in floor 2 inch deep. For 3 and 4 inch stiles only one hole is necessary. Mount L-plate to the floor using two plastic anchors, 3/8 inch flat washers and 2 inch hex head stainless steel screws located in the screw pack (Fig. D).
- D. Set stile aside: shoe and stile will be attached to the L-plate in the following steps.

For Floor to Ceiling Constructions:

Refer to shop drawings and room layout. Upon location of stile on center of chalk line, drill floor for double rawl plugs three (3) inches deep with a 3/4 inch carbide masonry bit. (For Floor to Ceiling Construction, stiles will be fastened with an adjustable bar on the bottom and a L-plate on top, or an L-plate attachment on the bottom and top of the stile) Location of the center will be 3/4 inch from the end of each stile. One bolt will be required for three (3) and four (4) inch stiles. All of stile widths will have two (2) attachment points. Attach 4 inch all-thread to rawl plug with a washer and nut. Tighten until secure. Install large washer and nut on rod and turn down almost to the first nut. Adjustment of adjustable bar mechanism will be made onto all-thread bolts. Place washer and nut over the top of the adjustable bar and draw tight against bar with box wrench. Height of leveling adjustment will be made with nuts located on the top and bottom of adjustable bar. Do not lock into final position until doors are hung.

Step 4: Locate appropriately sized panels based on the shop drawing dimensions given. Each component will have a label that identifies the size, color and room number. To secure panel to rear wall and stile, set 14 inches support under panel (Fig. F). Place panel on support and insert into brackets mounted on the rear or side wall. Insert panel onto "U" brackets on back of stile (Fig. F). When panel is at proper height above floor, drill

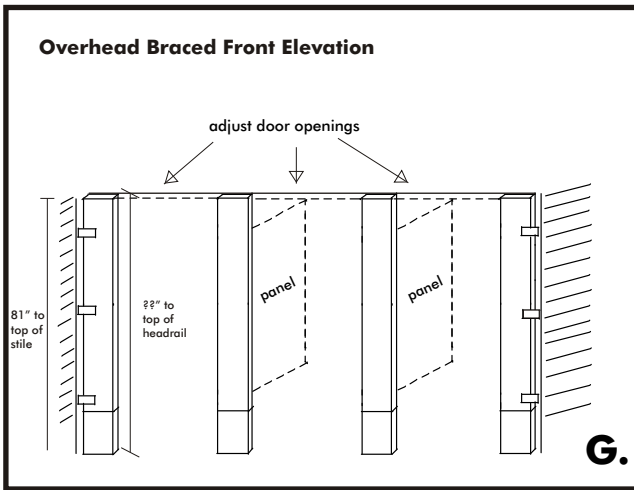


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through "U" brackets with a 1/4" bit. Fasten with 3/4" male shoulder screws and 5/8" female barrel nuts. Place stile on L-plate and slide stile shoe down onto L-plate. Do not attach. Some jobs will require the use of an optional aluminum heat sinc fastened to the bottom of the panels, doors and urinal screens. Orient the panel so the heat sinc is located on the bottom. Set the panels into the brackets but do not fasten.

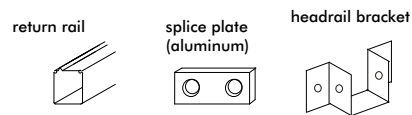
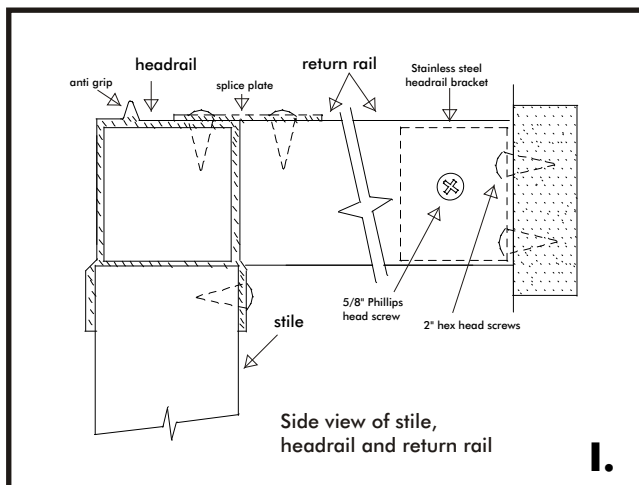
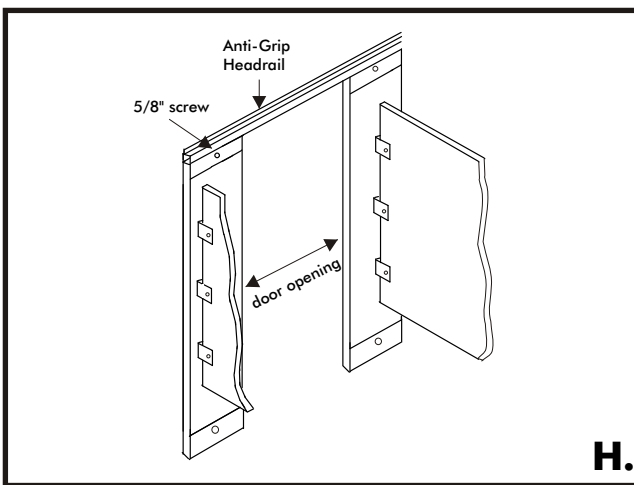
Step 5: All Stiles must be plumb and level before attaching. Headrail may be used as an aid in this process by temporarily setting them into position. (Do not fasten headrail this time.)

Plumb stile and adjust elevations. Fasten stile to panel using through bolts provided in the HW21 pack. By adjusting stile L-brackets or adjustable bars horizontally from side to side, the proper door opening and stile elevations can be achieved. When confirmed, set into position by tightening screws.

Step 6: For Overhead Braced Construction types, see Fig. G. Ampco provides pre-cut lengths of aluminum headrail and return rail for room sizes shown on the shop drawings. We provide the headrail lengths in five (5) inch increments. For example, if length required is 72 inches, a piece of 75 inches is provided. Cut to actual length necessary to insure a tight fit. Please review all lengths carefully before you cut. For all door openings, secure headrail at the top and L-plates at the bottom of the stiles. Rails should be placed on stiles with "anti-grip" feature toward the front of the compartment (Fig. I). Starting from stile attached to wall, create each door opening by adjusting bottom and top of individual stiles. Secure headrail to top of stile with 5/8" screw provided in the HW-31 pack (Fig. H).

At any open headrail locations, insert headrail end plugs that are provided in the Headrail return screw pack.

Return headrail placement is shown on the shop drawings. It is attached to headrail with a splice plate and attached at the rear wall of the stall with a stainless steel headrail bracket. After sliding return rail over the bracket, drill an 1/8" pilot hole through the return rail and bracket. Secure with 5/8" Phillips head screw (Fig. I).



For Floor to Ceiling Construction types, see Fig. J. No headrail is provided. The important point is to insure that all stiles are mounted and fastened plumb and true. Tighten all stile to floor and stile to ceiling connections so that component is rigidly fixed into position. Allow for some movement from side to side to provide for proper hinge and lock side clearances of any hanging doors.

Step 7: All doors are undercut 1/2 inch from overall opening. Be certain that you review this detail and read the instructions before you begin. All hardware will be packed together. Insure that you have all correct parts before you begin.

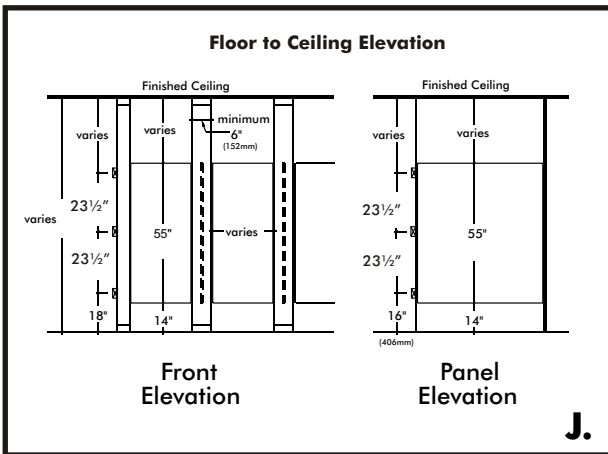
For Continuous Hinges: All Continuous stainless steel and aluminum hinges are handed right or left. Each hinge will be labeled as a left handed or right handed hinge. These hinges will be marked as either for an out swing door or inswing door. For example, a left hand out swinging hinge will be the same as a right handed inswing hinge.

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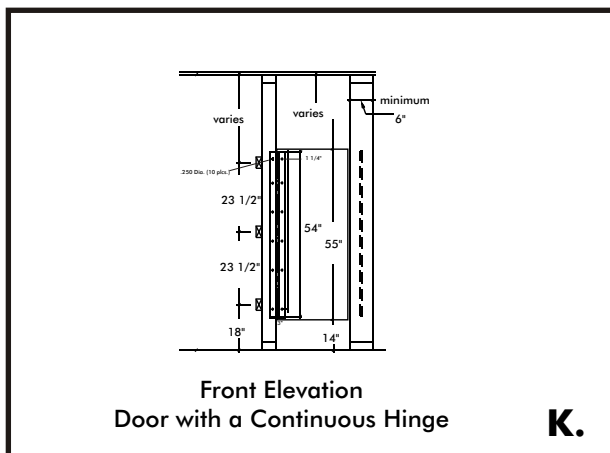
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Please refer to the shop drawings to determine the handing and swing before proceeding.

Once the opening has been identified, using the hinge as a template, drill $\frac{1}{4}$ inch holes into the door. Mount the hinge using the through bolts provided. Be certain to mount the pin and barrel $\frac{1}{8}$ " off of door edge. This will insure a clearance of $\frac{1}{4}$ " on the hinge side and lock side of door. All continuous hinges are preset for closed position. Once door side of hinge is mounted, locate the door 14 inches off of floor. This height should coincide with panel height off of finished floor. With a 14 inch support and once again using the hinge as a template, locate the holes necessary to mount the hinge to the stile. Be certain that the door swing and handing is correct. Drill $\frac{1}{4}$ inch holes through the locations and proceed to mount the hinged door to stile. (Note: If optional heat sinc is applied, heat sinc is on bottom edge of door.)

For Aluminum Bracket type pivot hinges: All hinges are handed. Verify through the shop drawings the handing of each door and proceed accordingly. For all handicap doors, three (3) hinges will be used to anchor these wider doors. Each hinge set will have one hinge that will employ a cam nylon piece for door closing feature. The removable nylon pieces will allow for proper positioning of the door when it is released. This hinge should be located on the top end of the door. Using the hinge bracket as a template, drill $\frac{1}{4}$ inch holes in top of door. Mount the top of the hinge bracket 3" from the top edge of door. Mount the middle free swinging hinge in the exact center of the door. Mount the bottom hinge three (3) inches up from the bottom edge of the door. Once hinge locations are determined on each door, using the hinge bracket as a template, locate and drill $\frac{1}{4}$ inch holes for through bolts necessary to mount the hinge bracket on the stile. Insure through the shop drawings that the swing and handing is correct.



For Integral Hinges: Turn the door over so the bottom is facing up. Insert the male half of the 2-piece cam into the hole bored into component. Drill through the $\frac{1}{8}$ inch hole into the side edge of the door with a $\frac{1}{8}$ inch bit into the nylon of the cam. Screw in the set screw to lock the cam into place. Insert the female half of the 2 piece cam into the hole at the bottom of the stile. **DO NOT** drill for the sex screw yet.

Turn the door right side up. Insert the coil spring into the hole at the top of the door with the nylon top pin on top of the spring. Position the door on the stile. Mate the 2-piece cams together. Press down on the top pin and align it with the hole in the stile. Release the top pin so that it springs up into the hole securing the door position. Position the door at the desired opening at rest. Drill through the side of the stile below and above the door for the sex screw.

Step 9: Mount remaining door hardware, slide latch, stop and keeper, coat hook and door stop. Recommended height is 36" above floor for slide latch, 58" above floor for coat hook.

Step 10: Remove all plastic protective film from surfaces of High Density Polyethylene material. All surfaces can be kept clean with water and mild soap solution. Do **not** use any caustic or acidic type cleaners, abrasive powders or scouring pads, water closet cleaners, ceramic tile cleansers, or solutions containing Ammonia. In high humidity areas, all rooms should be properly ventilated.

