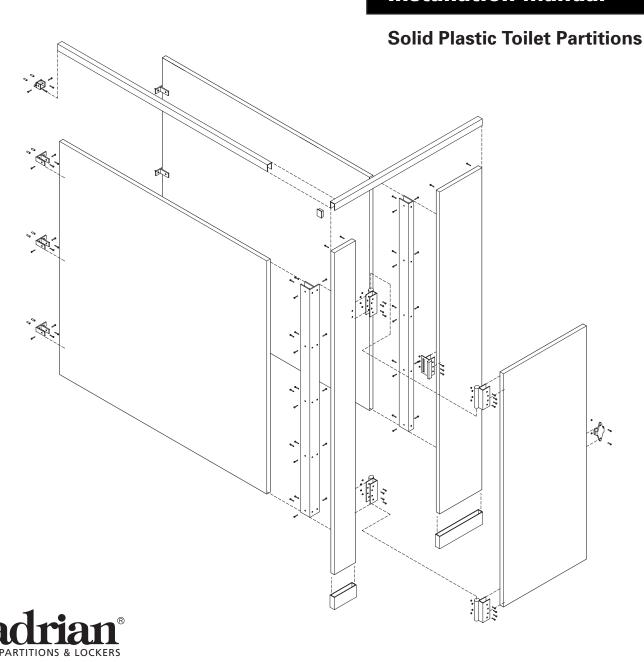
# **Installation Manual**



## IN THE U.S.A.:

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8/2011



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#### **General Notes**

The following installation instructions are based on headrail braced compartments in the most common unit arrangement. Other arrangements will be encountered, i.e. units contained between two walls or between two free-standing panels. For details on ceiling hung and floor to ceiling connections, refer to the appendix. Always adhere to applicable building codes.

Ceiling hung and floor to ceiling toilet partitions require an overhead structural member (normally a channel). This member is supplied, installed and drilled by others. Stud assemblies are available from Hadrian, but Hadrian does not install them. Stud assemblies should be in place prior to application of finished ceiling.

Hadrian recommends the use of a Pilaster Reinforcing Channel for self-supporting pilasters that are 16" (406mm) wide or wider.

#### FINAL LAYOUT DRAWINGS

For dimensional information, refer to your plan layout and dimensional details. Note in particular the relationship of the panels to the pilasters (panels do not necessarily fall on the center line of the pilaster).

#### **HEAT SINK STRIPS**

If ordered, heat sink strips come pre-installed to the underside of applicable doors and panels.

#### **STORAGE**

Solid Plastic is an exceptionally durable product, designed to stand the test of time. For optimum performance and to prevent possible warping of material, it is critical that the following guidelines be adhered to:

- 1) Plastic material must remain flat until the time of installation.
- 2) Plastic material must remain at approximately 68° F for a period of 24 hours before and after installation.

It is the distributor's responsibility to supply end-users with maintenance and warranty information.

# **Tools Required**

4 ft. level

Chalk line

Tape Measure

Hammer

Hammer drill

5/16" (8mm) masonry bit

Miscellaneous drill bits

Miscellaneous screw driver bits

Adjustable wrench

Hacksaw

14" (356mm) shim block to rest panels on for easier installation

6-lobe security driver bits



#### **Fasteners**



Barrel Nut 620123



**1" Barrel Screw** 620124



**1.75" Pan Head Screw** 620052



**5/8" Pan Head Screw** 620051



Plastic Anchor 620053

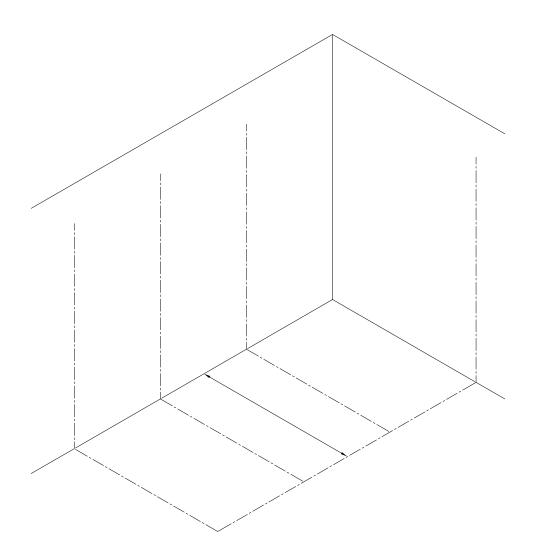




**#20 x 1.75" Lag Bolt** 620126



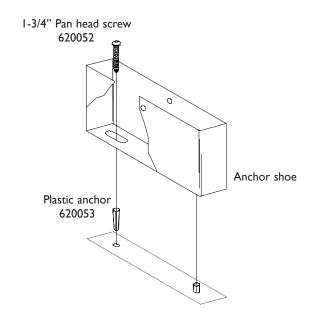
**#10 x 0.75" Flat Head Screw** 620125

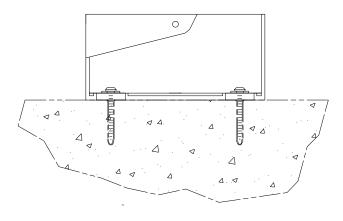


#### **STEP 1: Establish Anchor Shoe Locations**

Establish the front centerline by taking the overall compartment dimension and deducting 0.5" (13mm).

Use final layout drawing to determine the location of the first pilaster along the centerline.

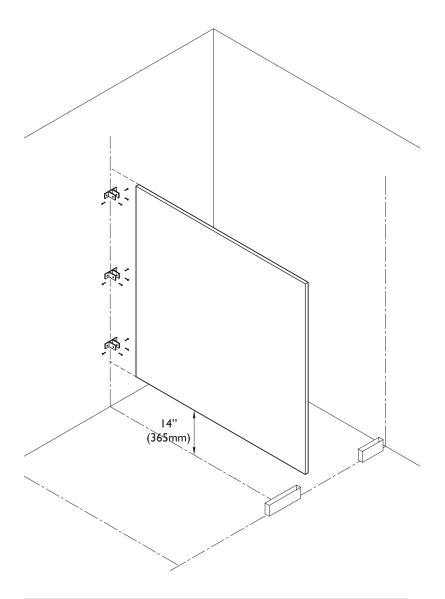




#### STEP 2: Secure Anchor Shoes to Floor

Set the pilaster anchor shoe in place along the centerline and mark the shoe hole locations.

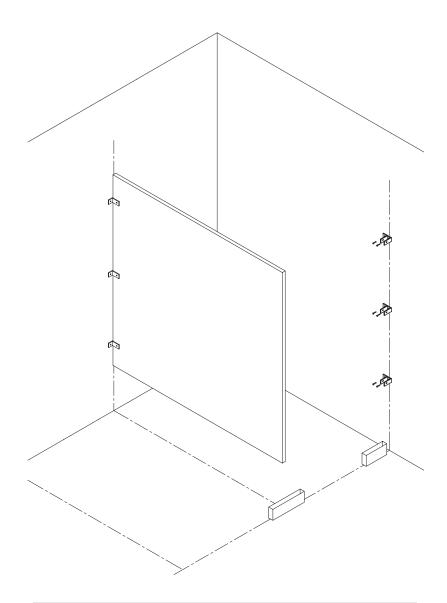
Remove shoe. Drill holes at marks and insert plastic anchors. Replace shoe and secure to floor with 1.75" pan head 6-lobe security screw. Continue to secure remaining shoes in place as outlined in the final layout drawings.



#### **STEP 3: Erect Panels**

Using your centerline locations, fasten 3 panel brackets to the back wall using 1.75" pan head screws (620052) and plastic anchors (620053). Brackets should be 20" (508mm), 41.5" (1054mm) and 63" (1600mm) from the floor.

Fasten panel to panel brackets using 5/8" pan head screws (620051). The dimension from the floor to the underside of the panel should be 14" (356mm). For ease of installation, rest panel on 14" (356mm) shim block while fastening to brackets.

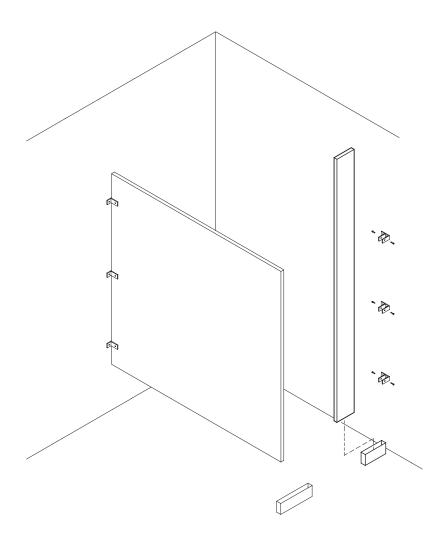


#### STEP 4: Prepare Brackets for Wall Pilaster

Fasten 3 single ear ("F") brackets to side wall at centerline using 1.75" pan head screws (620052) and plastic anchors (620053).

Brackets should be 20" (508mm), 41.5" (1054mm) and 63" (1600mm) from the floor.



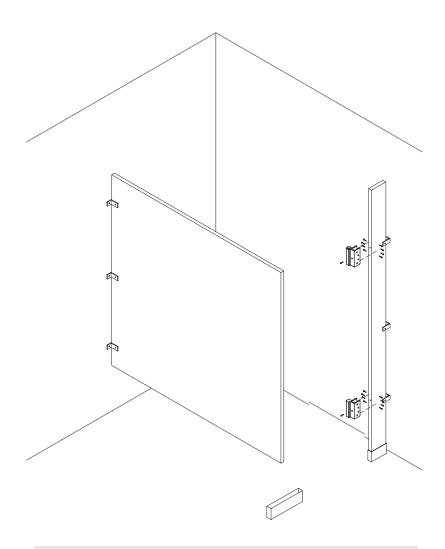


#### **STEP 5: Erect Wall Pilaster**

Set pilaster into the anchor shoe and wall brackets. If necessary, use leveling bolt underneath the pilaster to level (refer to appendix A). Fasten the pilaster to the wall brackets using 5/8" pan head screws (620051).

- \*\*\* For ceiling hung installations, refer to appendix F.
- \*\*\* For floor to ceiling installations, refer to appendix G.





#### **STEP 6: Prepare Pilaster for Door**

Drill a 1/16" (2mm) diameter pilot hole, 0.25" deep, into the edge of the pilaster 21.75" (552mm) from the floor. Drill another pilot hole into edge of pilaster 40.25" (1022mm) up from the first hole. Fasten upper and lower hinges to pilaster by securing #10 x 0.75" flat head screws (620125) through pilot holes.

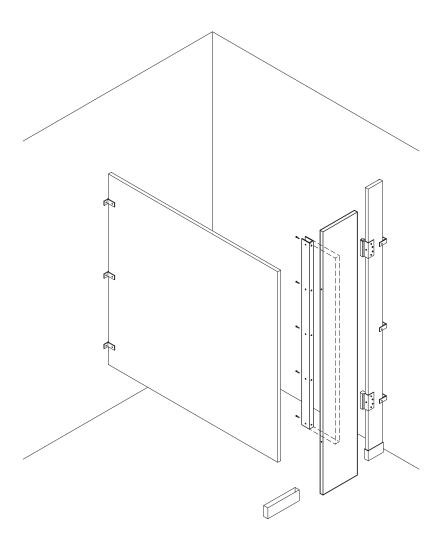
Using the hinge as a template, drill holes in pilaster for through bolts.

Secure hinges to pilaster using 1" barrel screws (620124) and barrel nuts (620123).

- \*\*\* For more details on barrel hinges, refer to appendix B.
- \*\*\* For continuous hinges, refer to appendix C.
- \*\*\* For integral hinges, refer to appendix D.







#### STEP 7: Fasten "U" Channel to Pilaster

Mark the next pilaster with a vertical line (off-set will be indicated on layout drawing).

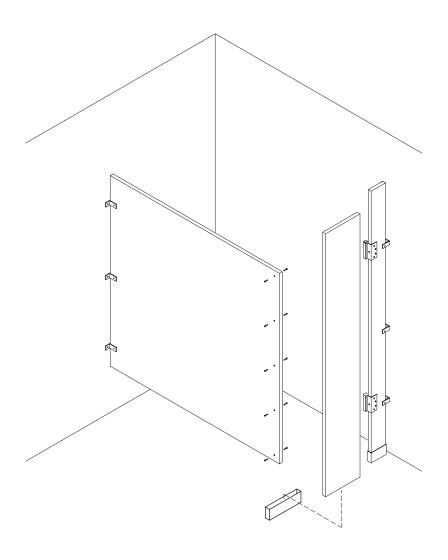
Mark the top height of the panel on this line. The vertical line will serve as a guide for the "U" channel.

Pre-drill pilaster to accept screws at least  $5/8^{\prime\prime}$  (16mm) deep.

Fasten "U" channel to pilaster using 5/8" pan head screws (620051).







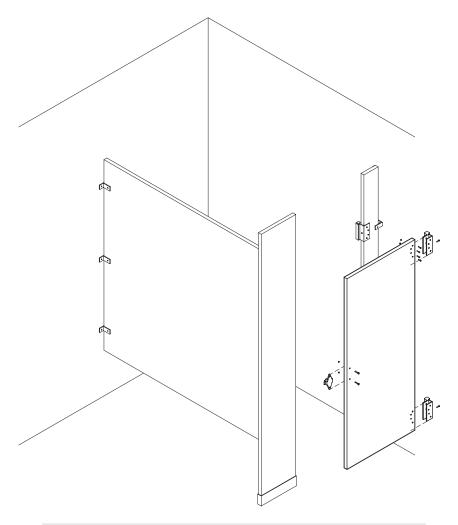
#### **STEP 8: Erect Pilaster**

Set pilaster into anchor shoe. If necessary, use leveling bolt underneath the pilaster to level (refer to appendix A). Set "U" channel into place on panel and fasten using 5/8" pan head screws (620051).

- \*\*\* For ceiling hung installations, refer to appendix F.
- \*\*\* For floor to ceiling installations, refer to appendix G.







#### **STEP 9: Prepare Door for Hanging**

If using barrel hinges, drill pilot holes into hinge-side edge of door at  $2.75^{\prime\prime}$  (70mm) from top and bottom of door. Fasten hinges to door by securing #10 x  $0.75^{\prime\prime}$  screw (620125) through pilot holes.

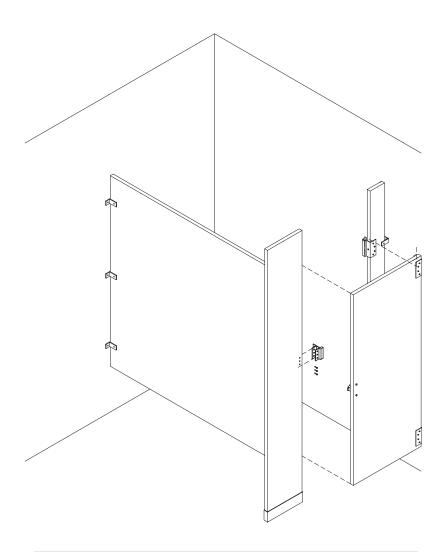
Using the hinge as a template, drill holes in door for through bolts (you may need to remove the hinges to widen the holes for the through bolts).

Secure upper hinge to door using 1" barrel screws (620124) and barrel nuts (620123). **Do not through bolt the lower hinge yet**.

Through-bolt latch at midpoint of door using 1" barrel screws (620124) and barrel nuts (620123).

- \*\*\* For more details on barrel hinges, refer to appendix B.
- \*\*\* For continuous hinges, refer to appendix C.
- \*\*\* For integral hinges, refer to appendix D.





#### STEP 10: Hang Door

Adjust hinge cam mechanism to allow door to rest at 30 degrees open (for inswing) or closed (for outswing).

Hang door by placing upper door hinge onto hinge component already fastened to pilaster.

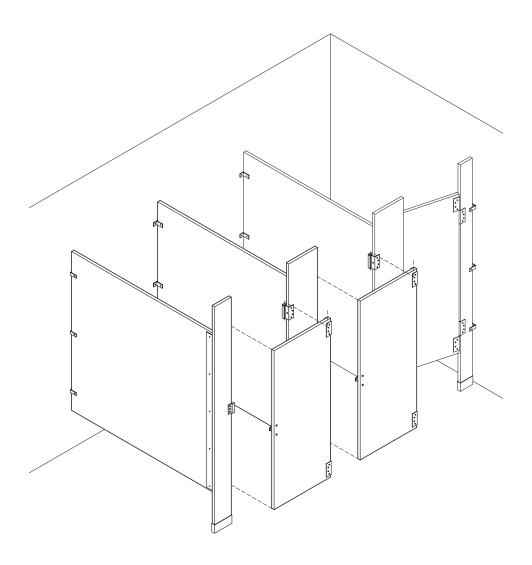
Slide bottom door hinge into place and fasten with through-bolts (ensure that the cardboard spacer has been removed).

#### \*\*\* For more details on barrel hinges, refer to appendix B.

Fasten Stop & Keeper on pilaster (be sure to line it up with the latch).

At this stage, you may want to pre-install headrail (without fastening) to assist in lining up and spacing pilasters (not required for ceiling hung or floor to ceiling installations).

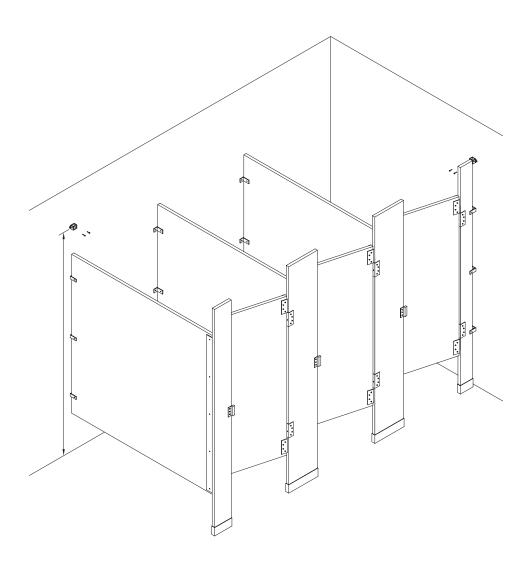




#### **STEP 11: Erect Remaining Compartments**

Ensure all pilasters are securely fastened and repeat steps 3 - 11 (as necessary) for all remaining compartments.

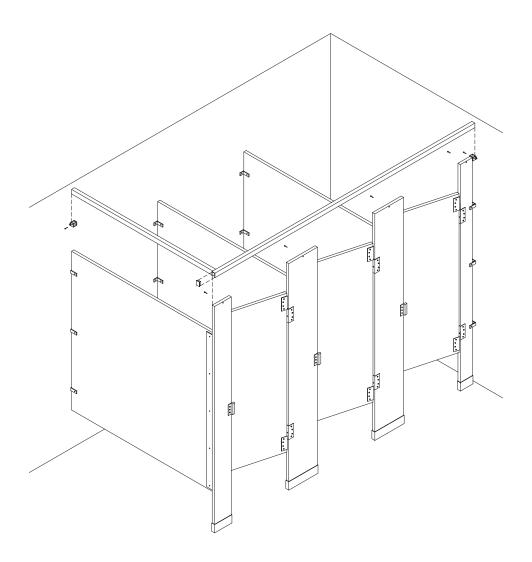
Hadrian recommends installing one compartment (including door) at a time.



#### STEP 12: Secure Headrail Brackets

\*\*\* This step is not required for ceiling hung or floor to ceiling installations.

Using 1.75" pan head screws (620052) and plastic anchors (620053), fasten headrail brackets to wall approximately 81.5" (2070mm) above the floor (some adjustment may be necessary due to varying floor conditions).



#### STEP 13: Place Headrail

For headrail braced installations, cap headrail over top of pilasters and slide into headrail brackets. Where 2 pieces of headrail connect in-line, join them with the snap-fit connector (always at a pilaster).

Fasten headrail to pilasters using 5/8" pan head screws (620051), ensuring that all screws are on inside of compartment. Using the same screws, fasten headrail to headrail brackets.

Secure headrail end-cap if required.

\*\*\* For ceiling hung installations headrail is not required, but a stabilizer bar MUST be installed. Refer to appendix F.

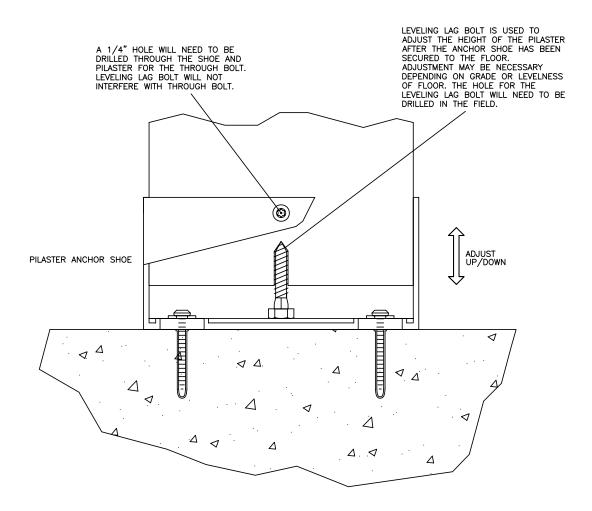
Fasten combined coat hook and bumper.

Fasten door pull(s) for barrier-free compartments.





# **Pilaster Leveling**





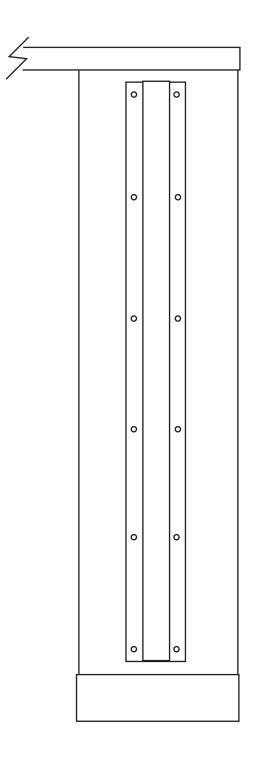


# **Pilaster Reinforcing Channel**

Hadrian recommends the use of a reinforcing channel (part #627240) on all self-supporting solid plastic pilasters that are more than 14" (356mm) wide.

To install the reinforcing channel:

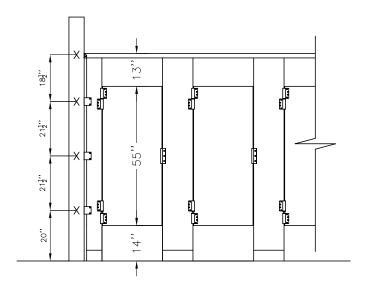
- Center the reinforcing channel horizontally and vertically on the pilaster.
- Fasten the reinforcing channel to the pilaster using 5/8" (16mm) screws through the holes supplied in the reinforcing channel.

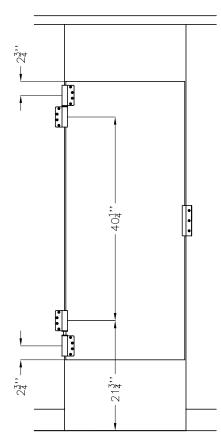






#### **Barrel Hinges**





#### **Drilling Pilot Holes for Barrel Hinges**

To install the aluminum barrel hinges, pilot holes must be drilled prior to installation to ensure proper placement of the hinges.

#### DOORS:

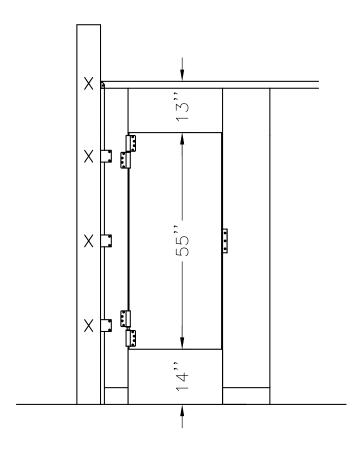
2.75" in, on centerline, from the top and bottom corner of the door, drill a 1/16" diameter hole approximately 0.25" deep.

#### PILASTERS:

21.75" on centerline from the floor, drill a 1/16" diameter hole approximately 0.25" deep. 40.25" from the first hole drill another 1/16" diameter hole approximately 0.25" deep.



#### **Barrel Hinges**



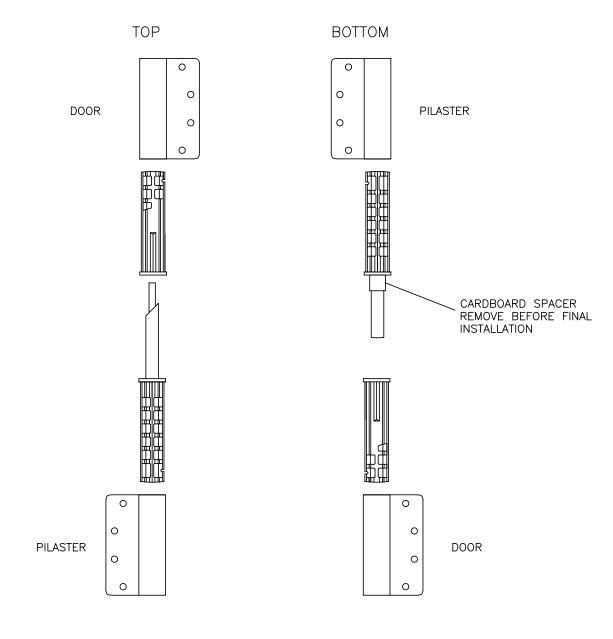
# **Installing Barrel Hinges**

- 1. DRILL PILOT HOLES ON PILASTER AS INDICATED IN STEP 6 OF INSTRUCTIONS.
- 2. HANG PILASTER HINGES. USE HINGE AS A TEMPLATE FOR DRILLING HOLES FOR THE THROUGH-BOLTS.
- (YOU MAY NEED TO REMOVE THE HINGES TO WIDEN THE HOLES FOR THE THROUGH-BOLTS)
- 3. ATTACH THROÚGH BOLTS.
- 4. DRILL PILOT HOLES ON DOOR AS INDICATED IN STEP 9 OF THE INSTRUCTIONS.
- 5. HANG DOOR HINGES AND DRILL HOLES FOR THROUGH BOLTS AS INDICATED IN STEP 2 ABOVE.
- 6. SECURE UPPER DOOR HINGE ONLY WITH THROUGH-BOLTS.
- 7. MOUNT DOOR ON UPPER HINGE
- (IT WILL BE BENEFICIAL TO HAVE A SECOND PERSON HOLD THE DOOR AS IT NOT BE SELF-SPPORTING UNTIL THE LOWER HINGE IS INSTALLED)
- 8. WITH THE DOOR LEVEL AND SWUNG SLIGHTLY INWARD/OUTWARD, FROM BENEATH THE DOOR SLIDE LOWER DOOR HINGE ONTO DOOR AND ALIGN WITH THE PEG IN LOWER PILASTER HINGE. ENSURE THE CARDBOARD SPACER IS REMOVED.
- 9. SECURE LOWER DOOR HINGE WITH THROUGH BOLTS.





# **Barrel Hinges**

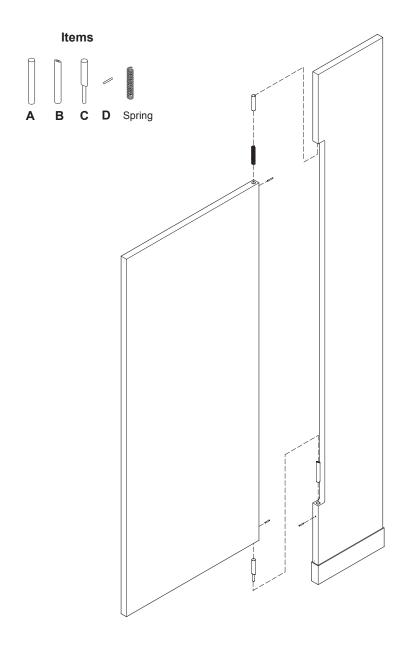




# **Continuous Hinges** Continuous hinges are through bolted as shown below using barrel nuts (620123) and 1" barrel screws (620124). .... 55 Χ X : & X . 5 : 25 55. Through bolt locations : 24: <u>:</u>: : -69 16.4



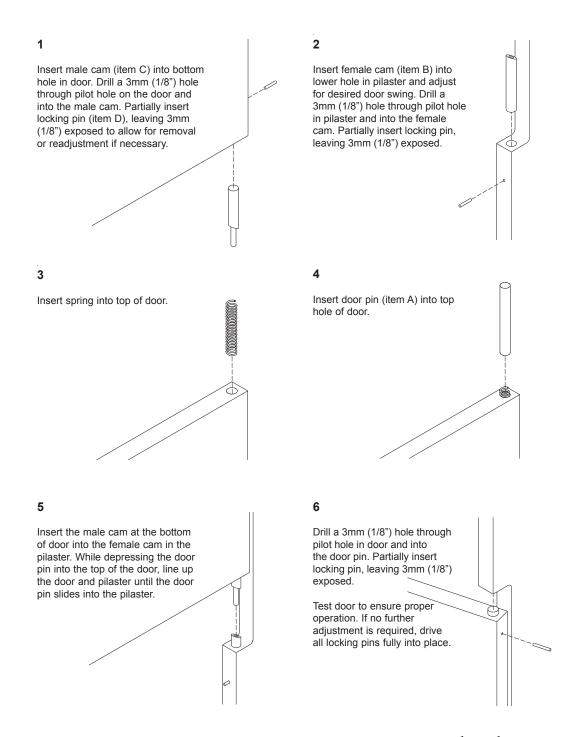
# **Installation Details for Integral Hinges**



Continued on next page.







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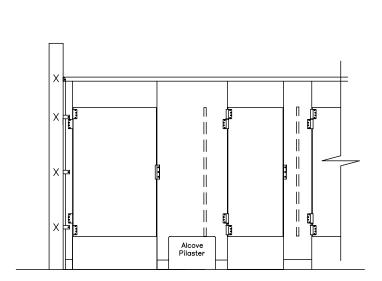


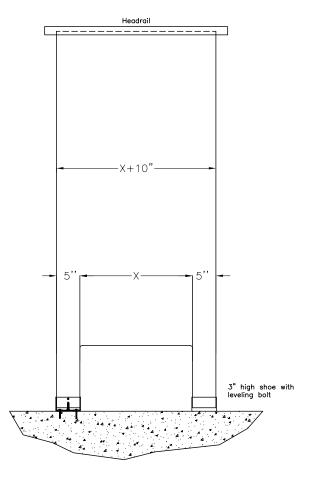


# **Alcove Pilasters**

Standard alcove pilaster sizes are 24", 30" and 36". A full range of sizes in one inch increments between 21" and 36" is available upon request.

Regardless of pilaster width, alcove pilasters always use two  $5^{\prime\prime}$  shoes.

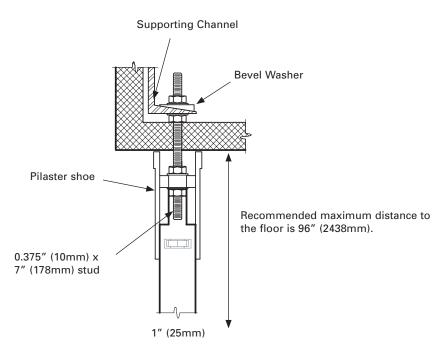


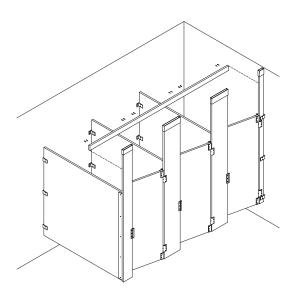






# **Ceiling Connection**

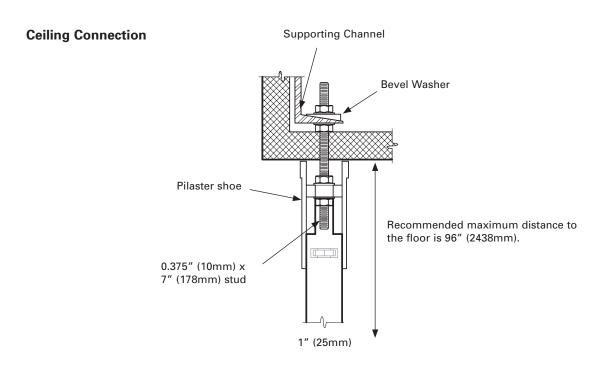




# **Stabilizer Bar for Ceiling Hung Partitions**

Ceiling hung installations require a stabilizer bar to be fastened horizontally across the back of the pilasters, 7 feet (2134mm) above the floor. The stabilizer bar should be fastened with one or two screws per pilaster (depending on the size of the pilaster) on the inside of the unit.





## **Floor Connection**

