Installation

Euro Style Restroom Partitions
Phenolic LT – FLOAT Series

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Read the instructions in this manual before beginning installation. Save these instructions and refer to them for inspection, maintenance, and troubleshooting information.

For questions regarding the operation, installation or maintenance of this product, visit bradleycorp.com or call 800.BRADLEY (800.272.3539).

Product warranties and parts information may also be found under “Resources” on our website at bradleycorp.com.

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Safety Information

Warning

Before beginning installation, make sure that the wall and floor backing are adequate to support the mounting of the toilet compartment units.

Partitions are extremely heavy and may require more than one person to position and install.

Failure to comply with these instructions may result in personal injury and/or property damage and will void the warranty.

Caution

Personal protective equipment (PPE) is required during the installation and maintenance of this product.

Notice

To prevent warping, always lay the material flat. Do not lean the material against the wall or stack unevenly.

Make sure all floors and walls are clean and smooth. Remove loose impediments, such as protruding nails and other debris which could affect installation.

To minimize break-out, always use a support block when drilling through the material.

Carefully remove components from skid, do not drag.

Important

Review your partition layout drawings and verify the number of stalls and components before beginning installation.

Read this installation manual completely to ensure proper installation, then file it with the owner or maintenance department. This installation manual provides instruction for the assembly of normal partition configurations and standard components. Non-standard configurations or components including but not limited to curved or angled walls, partial walls, oversized panels, or modified hardware are not covered in this manual. Compliance and conformity to local codes and ordinances is the responsibility of the installer.

Separate parts from packaging and make sure all parts are accounted for before discarding packaging material. If any parts are missing, do not begin installation until you obtain the missing parts.

Supplies Required

- Chalk line and pencil
- 4D laser level
- Power drill or screw gun with drill bit extension
- Miter saw with aluminum saw blade
- Circular saw or jigsaw
- Cordless screwdriver
- Power rivet gun
- Metric tape measure (recommend a wood folding metric ruler)
- Standard hand tools
- Metric HSS drill bits (8 mm, 5 mm, 4.2 mm)
- Metric Allen wrench kit
- Scissor jacks
- Rubber mallet
- HB45 construction adhesive or equivalent

1 Marking & Installing U-Brackets

☑ *When installing the partition components, consult the applicable Bradley Partition submittal drawing specific to this job for compartment layout dimensions.*

A From the accompanying production drawing, use the centerline plus overall dimensions and the dimensions of the front wall. Transfer these measurements to the floor and appropriate walls.

☑ *If the centerline dimensions are not specified, the cubicle is divided equally according to the dimensions for the front side.*

B Number the wall U-brackets while laying out the stalls. Use the laser level to locate the drill points for each U-bracket. Mark and then drill the locations.

C Using the 4D laser level, locate the centerline of each U-bracket. Measure up from the floor 100 mm and mark the bottom of the first U-bracket. Use the first bracket base location as a guide to locate and mark the remaining bracket locations using the laser level.

☑ *The dimensions from the floor for the remaining U-brackets may vary depending on any slope in the floor.*

D Hold the numbered brackets at these locations, line up the U-bracket pre-drilled holes at laser centerline, and mark the screw hole locations on the wall. Be sure to keep the numbered brackets straight.

E Mark the drill holes for the wall connection U-brackets.

☑ *Be aware of your surroundings and avoid obstructions.*

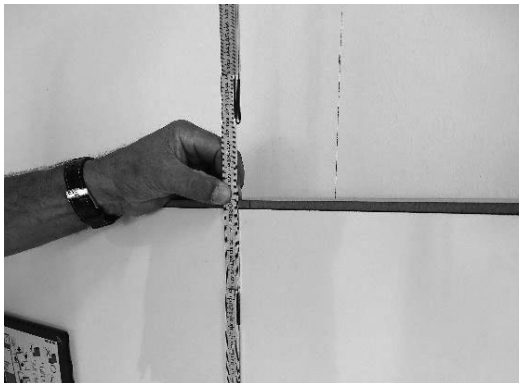
F Drill the marked holes using an 8 mm drill bit, and then mount the U-brackets using 8 mm x 51 mm plastic anchors and 5.5 mm x 60 mm countersunk screws with 6.4 mm washers.

2 Making Notches (if necessary)

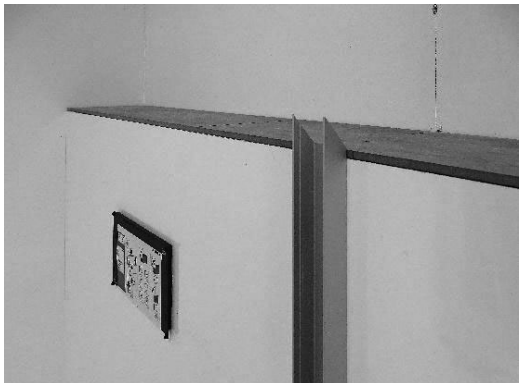
☑ *This step may not be necessary, depending on the layout.*

A Measure the height of the shelf on the back wall and subtract the specified ground clearance at that location from this dimension.

☑ *Determine whether the shelf is at a right angle.*

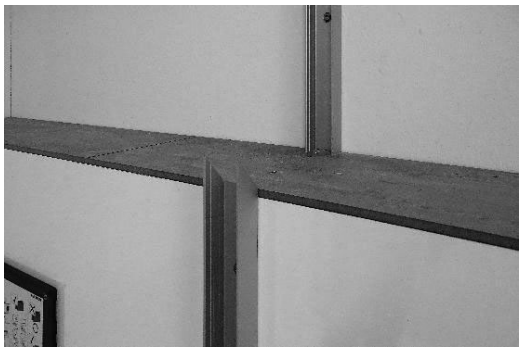


B Shorten the mitered pre-cut U-bracket to the correct size. Place the U-bracket with the miter end up, making sure that it is flush with the top of the shelf.

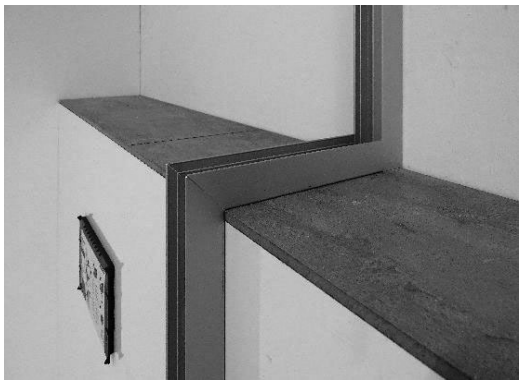


C Adjust the remaining piece of the long U-bracket to the height of the system, and then attach the U-bracket, setting it perpendicular to the wall.

☑ *If several notches are required, align the height of the U-brackets using a laser level.*



D Adjust the short miter U-bracket, and then attach it to the shelf.

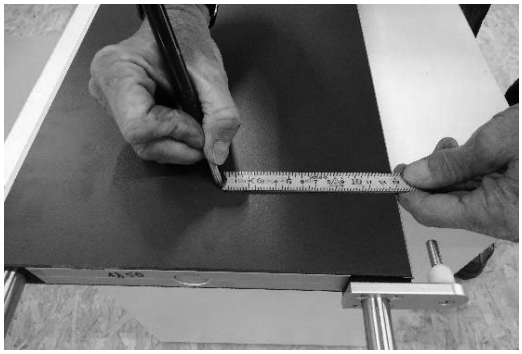


E Transfer the notch dimension with the addition of 0.20" clearance to the partition panel, and then use a circular saw to make the notch.

F Place the partition panel into the notched brackets. Level and use jacks to support the panel and to hold the panel in place.

3 Installing Smaller Shadow Brackets on Pilasters

A Determine the centerline of the pilaster and then draw a full-length line along the pilaster. There may be a custom dimension indicated on the submittal drawing.



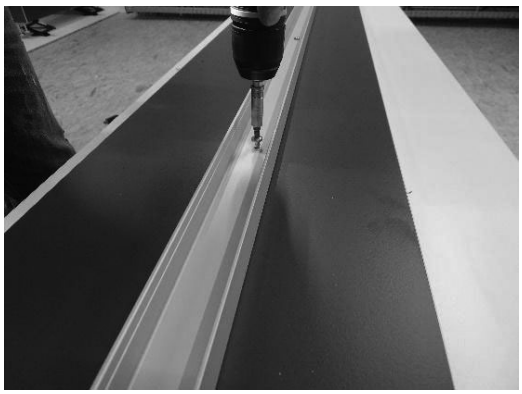
☑ *Verify the correct pilasters are selected by matching the label on the pilasters with what is indicated on the submittal drawings.*

Pay close attention to the latch side versus hinge side, in addition to the in-swing or out-swing.

B Place the small shadow bracket on the interior pilaster flush with the bottom, and then mark the drill holes.

C Using a 4.2 mm drill bit, drill the holes through the surface of the first panel only, and then attach the smaller U-bracket using 5.5 mm x 25 mm pan head screws.

Make sure the lower hole catches part of the interior aluminum frame at the bottom edge of the pilaster.



4 Mounting the Pilaster to Partition Panel

A Position the partition panel on its rear edge.

☑ *Be sure to use padding to protect the edge of the partition panel when placing it on its edge.*

B Place silicone on the interior of the middle pilaster.

C Apply glue to the inside edge of the panel and assemble pilaster to panel.

D Using the T-connector as a template, mark the drill holes on the bottom edge of the middle pilaster.

E Using a 4.2 mm drill bit, pre-drill the marked holes.

F Secure the T-connector to the partition panel and middle pilaster using three 4.8 mm x 50 mm countersunk screws.

☑ *When securing the T-connector, be sure the middle pilaster is at an exact 90° angle to the partition panel.*

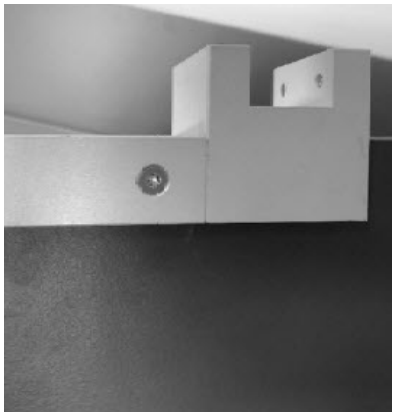
G Mark the drill holes for the top brackets. Place the brackets flush with the lower edge of the retaining block.

☑ *L-bracket holes are offset so the screws do not interfere with each other.*

H Using a 4.2 mm drill bit, pre-drill holes through the first panel only.

I Tightly secure the heavy brackets (105/60/30/8) using 4.8 x 32 mm countersunk screws.

J Place the upper retaining heavy block against the brackets and push onto the upper edge of the middle panel, and then secure the block using a 4.8 mm x 70 mm countersunk screw.

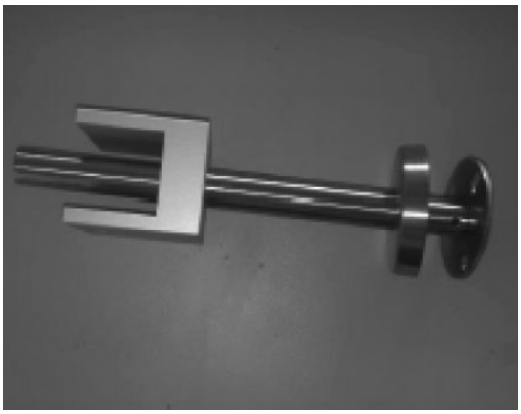


5 Assembling the Feet

A Insert the foot through the lower heavy U-bracket.

☑ *Be sure to place loose escutcheon above the flange of the foot.*

☑ *Snap the loose plastic disk to the bottom metal flange, making sure it is located between the metal flange and the floor. Line up the two small raised lines on the plastic disk with the U-shaped cut out on the metal flange. This piece helps create a barrier against the floor and will hold the loose escutcheon in place when finished.*



B Place the heavy U-bracket with foot into the foot drill hole located in the partition panel.

C Use a rubber mallet to tap the foot further into the drill hole.

6 Mounting the Wall Brackets

A Temporarily place the end pilaster into the U-bracket.

B Mark drill holes for the wall bracket.

C Drill the marked holes using an 8 mm drill bit.

D Insert the 8 mm x 51 mm plastic anchors into the pre-drilled holes for the wall brackets.

E Tightly secure the brackets with the 5.5 mm x 60 mm countersunk screws.

7 Installing Middle Panel & Side Panel

A Apply a bead of glue on both side walls of the recessed channel located on the side of the panel that attaches to the pilaster.

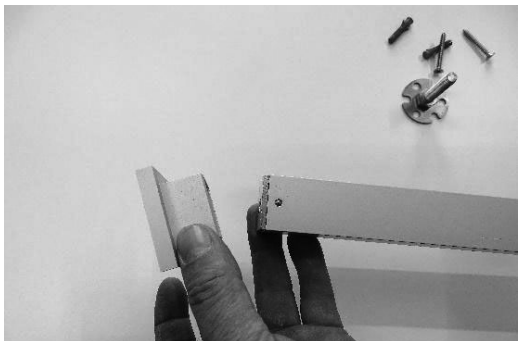
B Place the middle panel with the middle pilaster into the rear profile.

C Support the front of panels and pilasters using floor jacks.

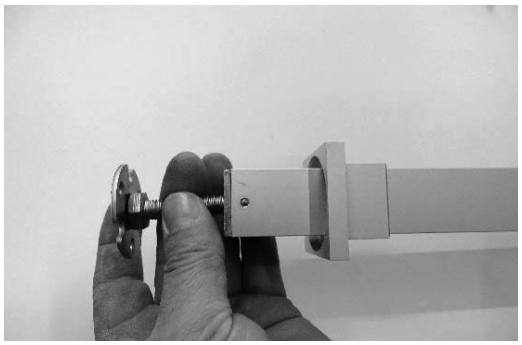
D Use a standard lever and 4D laser level to be sure the panel is level and perpendicular with the floor.

8 Installing Headrail

A Insert the square finish flange over the front headrail.



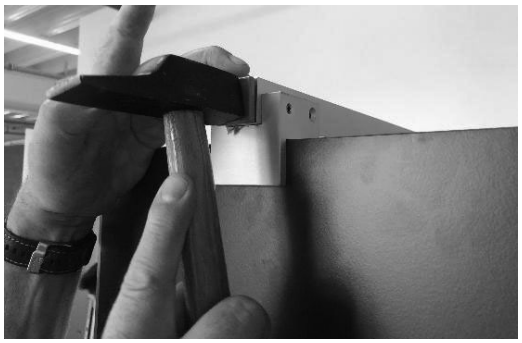
B Screw the mounting plate into the end thread on the end of the headrail.



C Insert the headrail into the upper holders and use the set screws to attach the headrail onto the holding blocks.

☑ *When attaching the headrail, roughly adjust the door clearances.*

D Use a rubber mallet to insert the end stopper into the headrail.



9 Installing Doors

A Hang the doors on the pre-installed hinges, and then pull the door shut to align with the system.

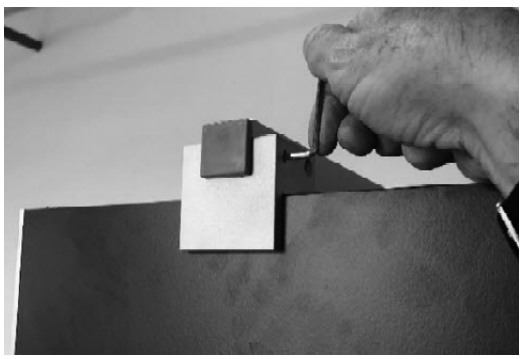
☑ *For information regarding the LED occupancy indicator, refer to "Appendix A: LED Occupancy Indicator" on page 25.*

10 Aligning the System

A Position the front door clearance by clamping the 3 mm thick spacers or wedges between the doors and the pilasters.

B Verify the door gap is parallel and the door stop is level. Also, verify the top edges of the system components are in line with each other.

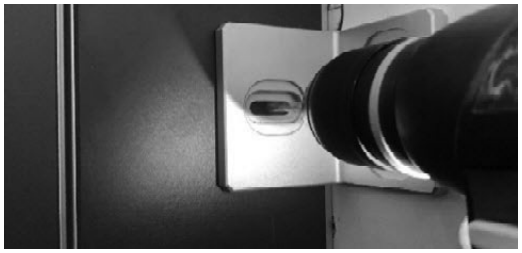
☑ *To make any adjustments, move the two end pilasters from side to side and/or up and down.*



11 Pre-Drilling the System

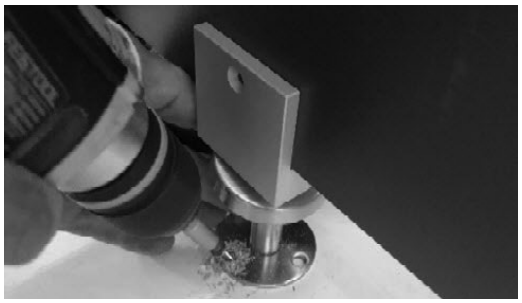
☑ *Verify the system is properly aligned before securing in place.*

A Secure the wall bracket to the end pilasters using 5.5 mm x 25 mm pan head screws.

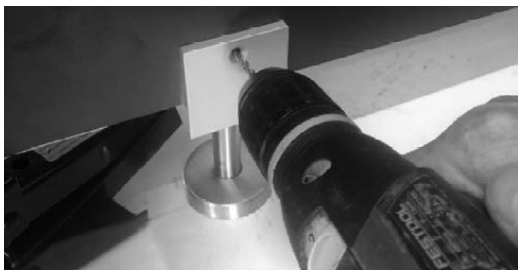


☑ *If desired, rivets can be used to secure panel to back wall in addition to the brackets.*

B Pull the support leg down until it is firmly seated on the floor. Secure the support to the floor using two 6 mm plastic anchors and 4.8 mm x 38 mm screws. Pre-drill into the floor through the holes in the flange.

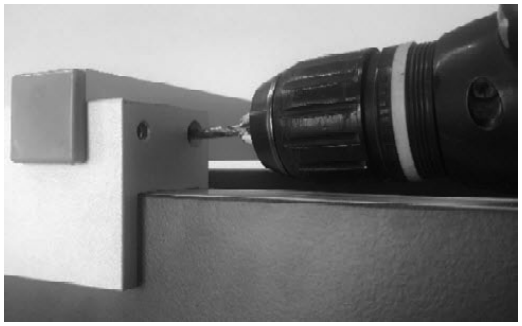


C Slide the lower heavy U-bracket up, firmly under the partition panel.



D Use a 4.2 mm drill bit to drill through the heavy U-bracket at the base, and then secure the bracket in place using 4.8 mm x 25 mm countersunk screws.

E Drill the upper heavy brackets in the same manner.



12 Mounting Headrail

A

Hold the square headrail in the correct position against the wall and mark the locations of the screw holes. Drill these wall locations using a 4.2 mm drill bit. Insert two 6 mm anchors at these locations.

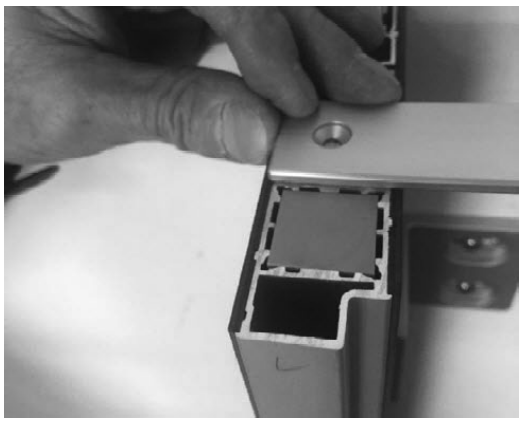
Slide the square finish end flange over the headrail. Line up headrail flange against the inserts and screw in the two 5.6 mm x 32 mm countersunk screws.

Slide the finish flange over the screw flange using silicone to secure.

B

When the width of the end pilaster is more than 125 mm wide, attach stabilizers to connect the end pilasters and headrail. Stabilizers are used to reinforce the system.

☑ *The stabilizers are indicated on the drawings if necessary.*



C

If indicated on the drawing, attach the stabilizer to the top edge of the end pilaster using 4.8 mm x 50 mm countersunk screws and to the bottom of the headrail using 4.8 mm x 25 mm countersunk screws.

13 Riveting Wall Connections

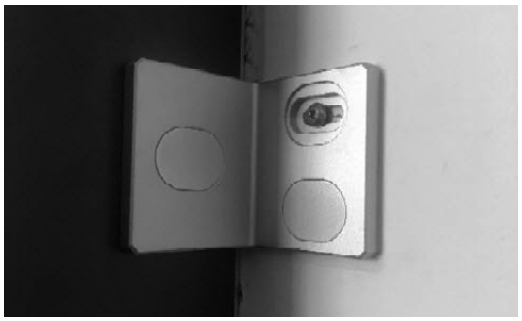
☑ *Rivet all parts with the U-bracket to the wall.*

A Where indicated, rivet all U-brackets to panels and/or pilasters. Measure down from top edge of U-bracket approximately 100 mm, up from bottom edge of U-bracket, and middle of U-bracket, and then pre-drill using a 5 mm drill bit.

☑ *Use 4.8 mm x 16 mm stainless steel rivets for all rivet locations.*

B Manually insert rivets into the pre-drilled holes. Use a rivet gun to tighten the rivets into the holes.

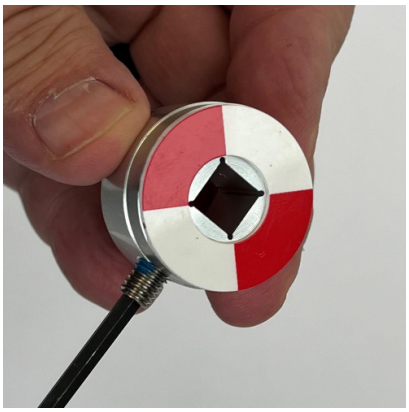
C Glue the cover plates onto the bracket.



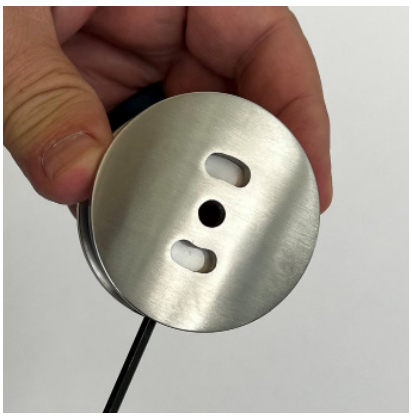
14 Mounting Door Latches

☑ *Locate the latch kit number BRO0540504. This latch kit works for all Loft and Float configurations.*

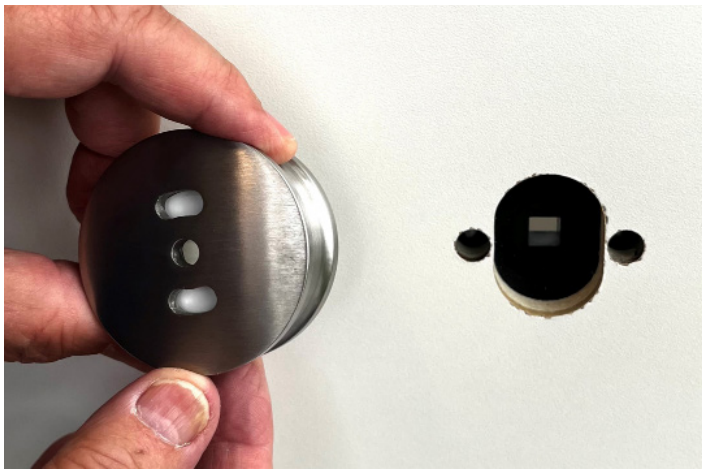
A Insert the small set screw into occupancy indicator. This set screw port should be in line with a white field of the occupancy disk. Make sure the set screw is flush with the outside wall of the indicator disk, and the tip does not protrude into the core of the disk. Use a 3mm Allen wrench.

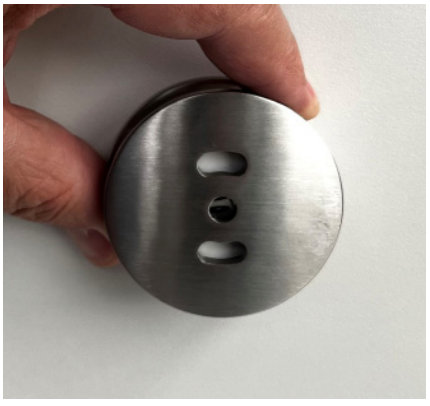


B Insert the occupancy indicator into the back of the knob with the set screw positioned in line with the center hole. White should be showing through the knob holes.

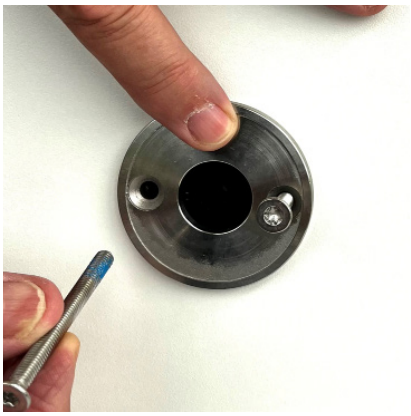


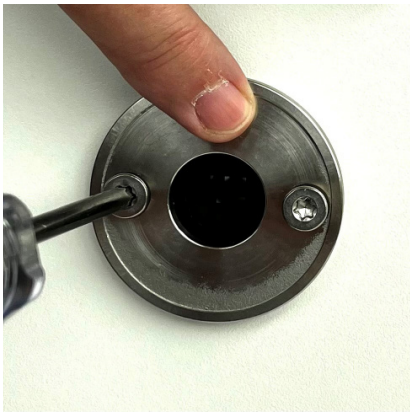
C Place the white thin disk on the back of the knob assembly, and place on outside of door, with the three holes facing down





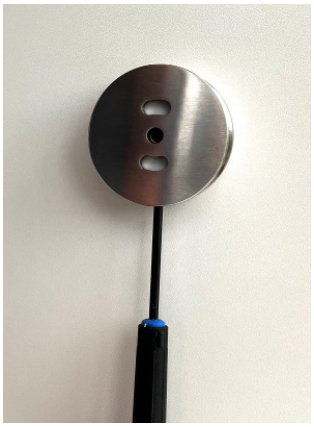
D Place the retaining flange on the other side of the door over the latch opening. Thread the large screws into the back of the flange, and into the back of the knob on the other side of the door. Tighten the screws using a T-25 torx wrench.





E Locate the groove in the paddle handle brass stem. Face that downward, with the paddle handle vertical. Make sure grey plastic “top hat” bushing is in place at base of stem as shown. Assemble the paddle handle into the inside opening in the door. This should be inside the stall. Push all the way in.

F While keeping pressure against the paddle handle tight against the door, tighten the set screw in the indicator disk through the middle hole found at the bottom of the knob. This is to fix the paddle handle to the latch assembly. Use a 3mm Allen wrench.



G Test by rotating the paddle handle towards the edge of the door and back. This should move the locking latch in and out of the mortise lock of the door.

Use a 4mm Allen wrench as an emergency egress tool to unlock the latch from the outside of the stall.

15 Mounting Hooks & Bumpers

A Mark the location for the hook on the inside of the door (300 mm from the top edge in the middle of the door).

B Pre-drill the hook mounting holes using a 4 mm drill bit. Only drill through the first wall of the door, not the entire door.

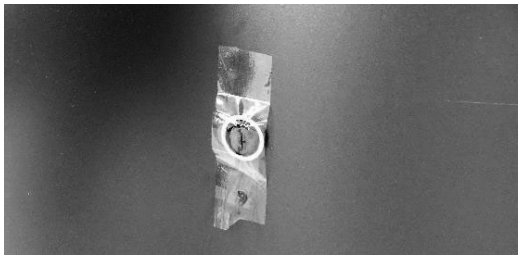
C Insert the supplied rivets (4 mm x 16 mm) into the top pre-drilled mounting hole.

D Use a rivet gun to attach the hook to the mounting hole.

E Use a level to verify the hook is level, and then drill and rivet the second hole in the hook.

F Attach the door bumper to the inside pilaster using HB45 construction adhesive or equivalent.

G Use tape to hold the door bumper in place until the adhesive dries.



Appendix A: LED Occupancy Indicator

The LED occupancy light strips, visible from the front and back of the pilasters, are pre-installed in the pilaster near the latch while at the factory. Always place the indicators next to the door at the latch location. The activation of the LED is made with a magnetic switch in the strike area in the edge of the pilaster. The LED indicator strips are 500 mm long as the standard.

☑ *It is recommended that each LED indicator strip has its own power supply—multiple strips on one power supply transformer may result in uneven light intensity.*

Low Voltage Wire Routing Information

- The low voltage wire is included when LED indicators are ordered. Each LED indicator strip requires 12 VDC.
- Each LED indicator requires 3.6W of power.
- The LED indicator lights are powered on continuously. The LED is green when the stall is unoccupied, and red when the latch is locked and the stall is occupied.
- The low voltage wire routing depends on the location of the LED lights in relation to the layout. Interior stalls require routing the wires in a recessed area along the top of the panels, running to the back wall. For corner stalls where the latch side of the door is next to the side wall, the LED indictor light is in the pilaster near the corner wall and require routing the wires from the top of the pilaster to the corner wall.
- The electrical wire location at the back wall should be at the centerline of the dividing panels. For corner stalls, the electrical wire location should be at centerline of the pilaster placement. In all cases, the height of centerline wire location would be 10 mm from top of the panel.

  Example: If the bottom of the panel/pilaster is 100 mm above the finished floor and the panel alone is the standard 1980 mm high, then the dimension from the floor to the center location of the wire location would be 2070 mm. Refer to the diagrams below.
- The LED is switched from green to red by a recessed magnetic switch located in the edge opening on the pilaster at the latch location. This switching activation area is most prominent at the upper and lower location of this switch. The middle of this switch is not an actual activation area. Be sure to locate the latch throw from door latch at the upper or lower area of this recessed switch located in the pilaster. The switch location may have to be adjusted. If the latch throw is too far separated from the switch, additional small magnets may be attached to latch throw.

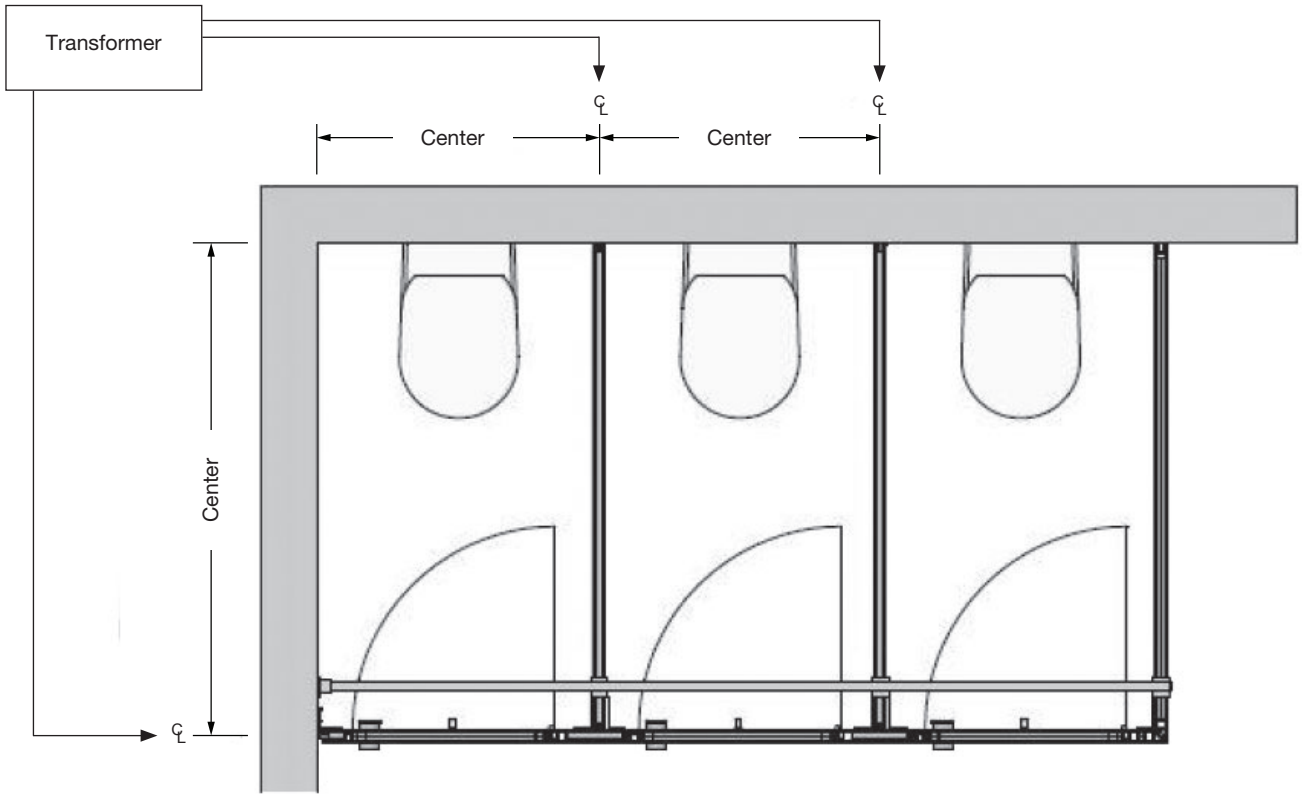
  The LED light strip is relatively loose in the pilaster chamber and may pull out of its chamber a little during shipping, giving the appearance that the lower part of the light strip may be burnt out. To place the strip back into the chamber, gently insert a tape measure or long rod at the location where the wire comes out of the top of the pilaster and push back into place. Testing each light strip using a 9V battery prior to attaching to the panel is recommended. Doing so may make it easier to test and push back into place.
- It is recommended that a master transformer (sometimes referred to as a driver) be used in a remote, but close by location. This transformer should be sized in order to supply all the LED lights for the layout; it should be 12 VDC and supply at least 3.6W for each LED light. The LED light is already installed in the pilaster and is supplied with an integral low voltage wire set through an opening at the top of the pilaster. This wire length is approximately 1260 mm in length beyond this opening. It is recommended that installer supply at least 5 meters of additional low voltage (paired) wire for the final connection. Length of wire depends on location of central box and location of the stall furthest away from box. The connection splice can be made along the top of panel. It is further recommended that the lengths of these individual wires should all be uniform. Uniform wire lengths guarantee that the LED lights will perform at the same level of brightness. Excess wire can easily be coiled up inside the centrally located electrical box.

☑ *Wire placement locations are indicated on the submittals using a small yellow lightening bolt as shown.*

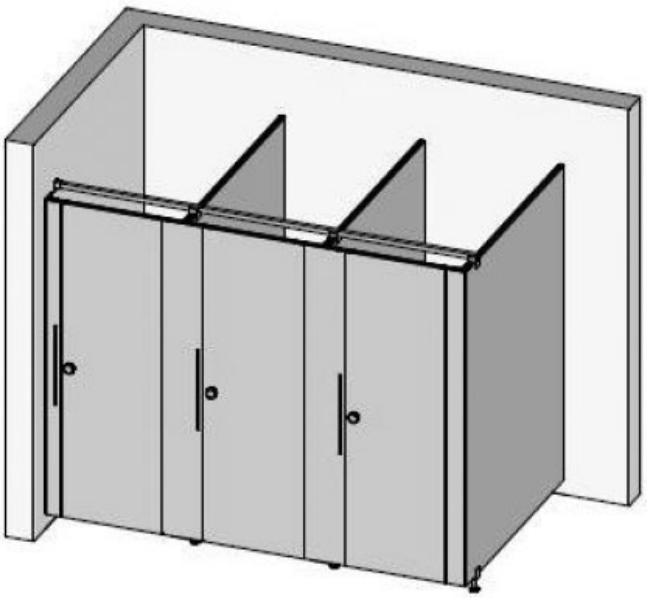
LED Wiring Location Example

This example indicates where the wire(s) would protrude through the wall to the partition system. The back wall locations are centered at the panel location. The left side wall location is centered at the pilaster location.

Top View

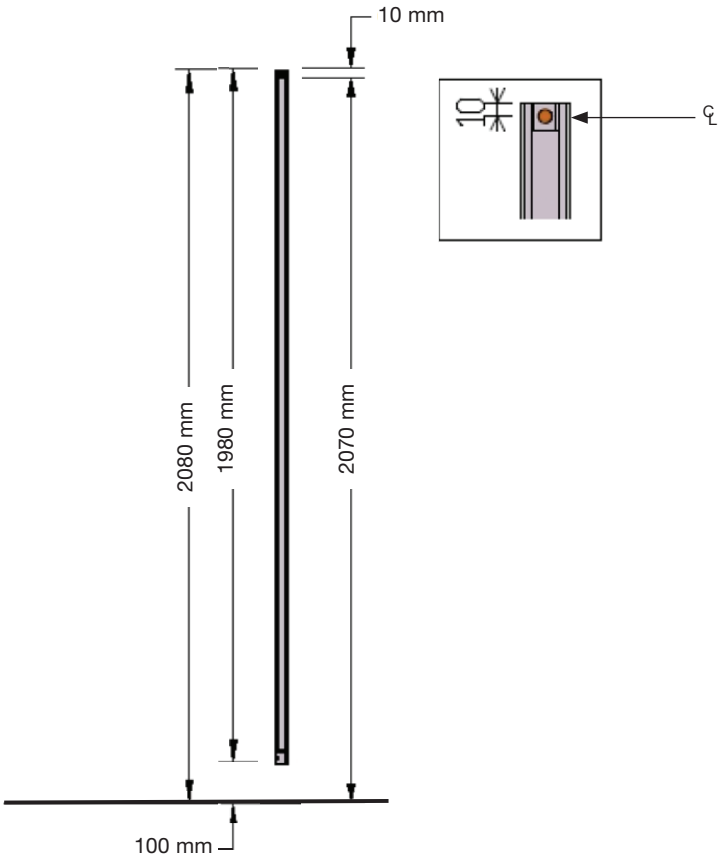


3D View



Elevation View

If the standard 100 mm was used for the gap at the bottom, then the centerline from the finished floor up to the wire location would be 2070 mm.



FRACTION-DECIMAL CONVERSION CHART

	INCHES	MILLIMETERS
1/64	.015625	.3969
1/32	.03125	.7938
3/64	.046875	1.1906
1/16	.0625	1.5875
5/64	.078125	1.9844
3/32	.09375	2.3813
7/64	.109375	2.7781
1/8	.125	3.1750
9/64	.140625	3.5719
5/32	.15625	3.9688
11/64	.171875	4.3656
3/16	.1875	4.7625
13/64	.203125	5.1594
7/32	.21875	5.5563
15/64	.234375	5.9531
1/4	.250	6.3500
17/64	.265625	6.7469
9/32	.28125	7.1438
19/64	.296875	7.5406
5/16	.3125	7.9375
21/64	.328125	8.3344
11/32	.34375	8.7313
23/64	.359375	9.1282
3/8	.375	9.5250
25/64	.390625	9.9219
13/32	.40625	10.3188
27/64	.421875	10.7157
7/16	.4375	11.1125
29/64	.453125	11.5094
15/32	.46875	11.9063
31/64	.484375	12.3032
1/2	.500	12.7001

	INCHES	MILLIMETERS
33/64	.515625	13.096
17/32	.53125	13.493
35/64	.546875	13.890
9/16	.5625	14.287
37/64	.578125	14.684
19/32	.59375	15.081
39/64	.609375	15.478
5/8	.625	15.875
41/64	.640625	16.271
21/32	.65625	16.668
43/64	.671875	17.065
11/16	.6875	17.462
45/64	.703125	17.859
23/32	.71875	18.256
47/64	.734375	18.653
3/4	.750	19.050
49/64	.765625	19.447
25/32	.78125	19.843
51/64	.796875	20.240
13/16	.8125	20.6375
53/64	.828125	21.0345
27/32	.84375	21.431
55/64	.859375	21.8282
7/8	.875	22.2251
57/64	.890625	22.6220
29/32	.90625	23.0188
59/64	.921875	23.4157
15/16	.9375	23.8126
61/64	.953125	24.2095
31/32	.96875	24.6063
63/64	.984375	25.0032
1	1.000	25.4001

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