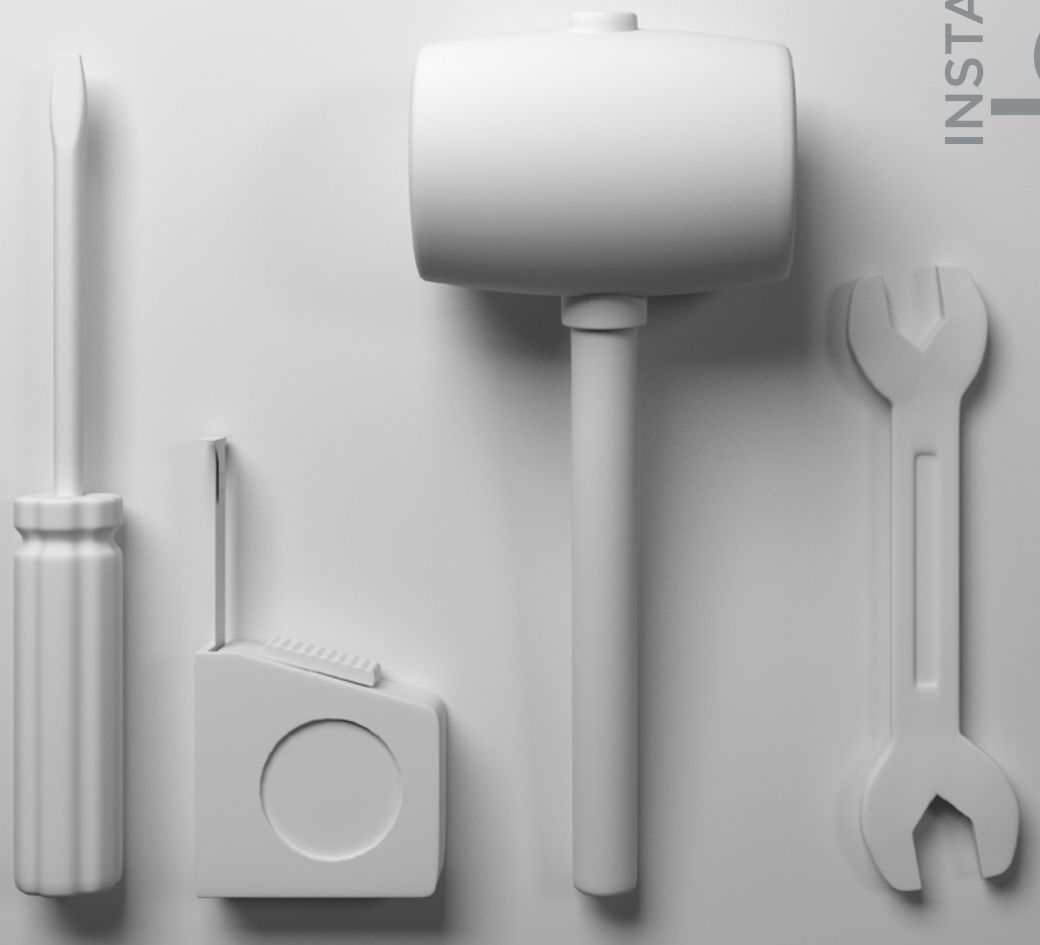
Bridges II Power Beam

Effective Aug 2024 Canada

INSTALLATOIN MANUAL bridges power beam



DISTRIBUTION

global

POWER BEAM INSTALLATION

Required Installation Tools

Safety Glasses	3/8" Nut-Driver
Rubber Mallet	#2 Robertson Screwdriver
Nylon Block*	#3 Robertson Screwdriver
Metal Pick*	Large 1/4" Blade Screwdriver
Fabric Spline Roller*	3/16" Diamiter Punch
Power Prill (var speed, rev)	Utility Knife
Magnetic drill bit holders	48" Long Level
1/4" Nut-Driver	Tape Measure
5/16" Nut-Driver	Gloves

Additional items you may find useful:

#2 Phillips Screwdriver	Large Channel Lock Pliers
#3 Phillips Screwdriver	Fine tooth Saw (Hacksaw)
1/2" Wrench	General Purpose Prybar
9/16" Wrench	Frame Dolly
Adjustable 8" Wrench	Two wheel cart
Needlenose Pliers	Furniture Cart with Straps

* These Items are available through customer service at 416-739-5000.

Correct Product handling Tips

- Handle all of the furniture with care.
- Hold and carry by the data or power punch outs at the sides of the beam or panel, or remove raceway covers to carry panels by the horizontal rails. Non-raceway panels should be carried by the outer edges, so as not to squeeze the fabric portion of panel.
- Lift panels completely off the ground when carrying; dragging may cause the glide to spin out.
- When carting and/or staging panels, ensure they are placed frame to frame to avoid one panel leaning into the middle or the edge of the fabric portion of another.
- When staging panels, ensure the first panel is relatively close to the wall at the glides (just enough to stand on its own).
- Always protect walls and/or panels when leaning them.
- Always stand panels with glides to the ground (right side up).
- Ensure panels and carts are adequately protected during off-loads.
- Watch for raceway covers that may have come off during transit. They are usually in the plastic covering.
- Watch for the sharp ends of staples when removing the packaging from around panels.

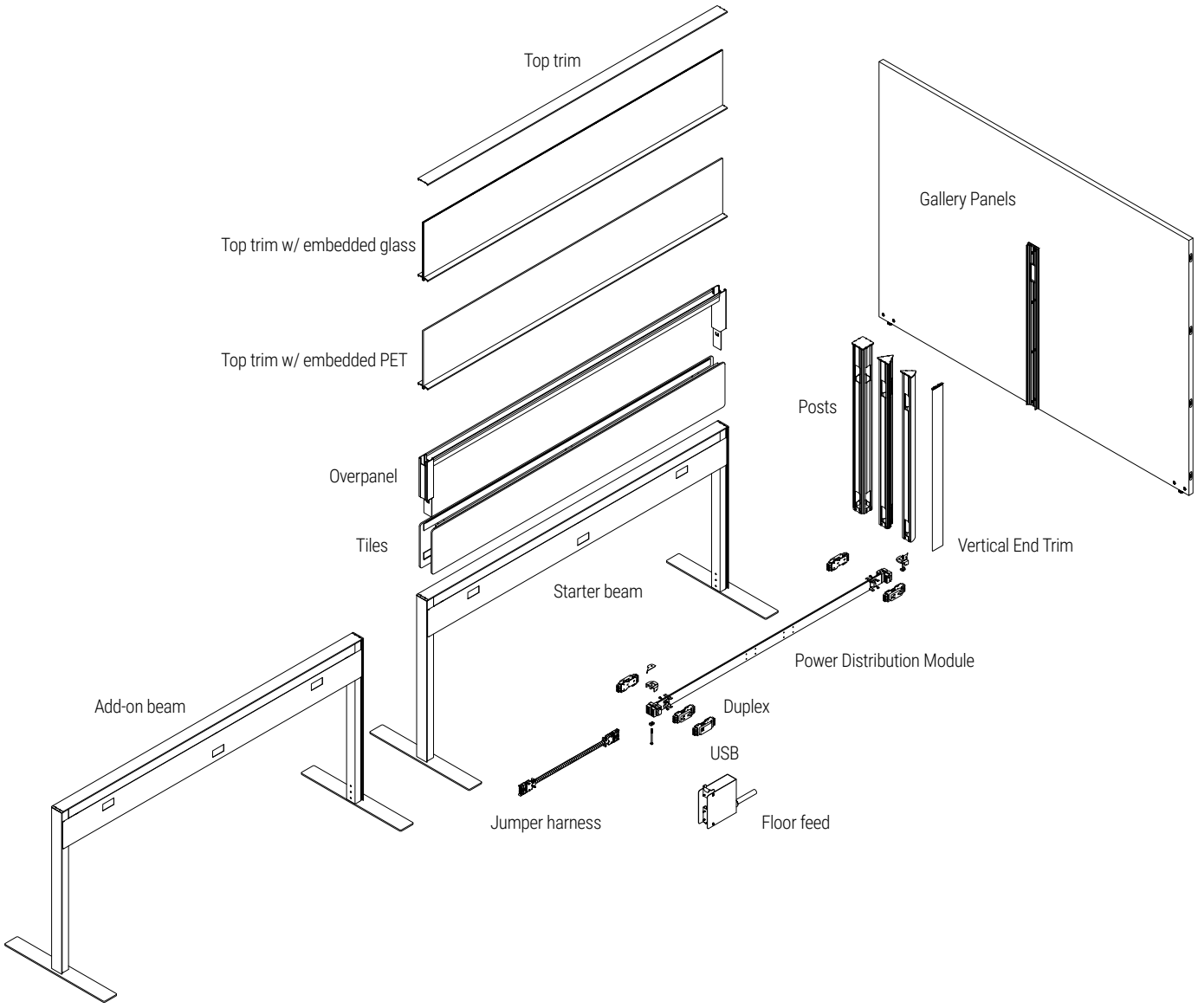
Please contact your Global Contract Service Representative at 416-739-5000 for any questions or concerns.

NOTE: Any alterations to listed components will void the manufacturer's warranty. The manufacturer will not be responsible for any damage or bodily harm caused by alterations in accordance with national or local electrical codes and manufacturer's specifications. In accordance with the manufacturer's policy of continual product improvement, the product presented in this document is subject to change without notice or obligation.

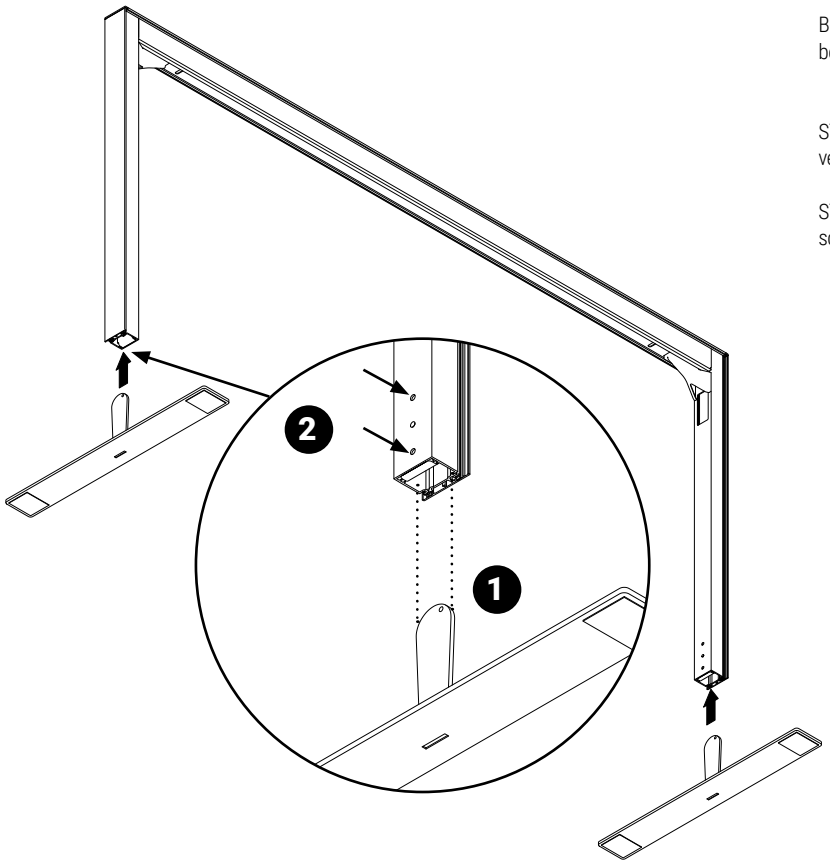
Introduction

The Bridges II Power Beam run typically consists of a Starter Beam (self supporting, characterized by two feet) and an Add-on Beam (characterized by a single foot, where the "foot-less" leg is connected to the leg of a Starter Beam).

The Bridges II Power Beam run can be augmented horizontally - by adding corner posts to turn or split the run, and by connecting Gallery panels, and vertically - by adding embedded glass, embedded PET felt divider, B3 over panel with fabric, glass or laminate tile options.



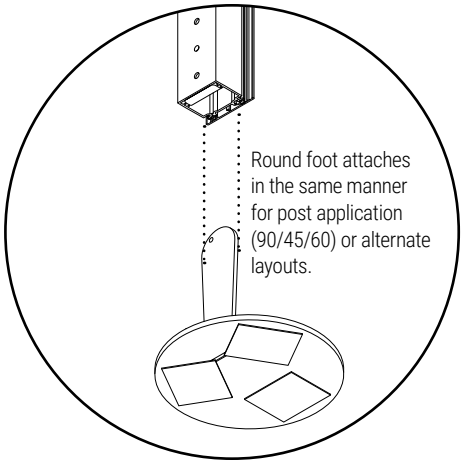
Beam - Feet



Begin by inserting feet into the beam vertical extrusion.

STEP 1: Insert the foot into the bottom of vertical extrusion.

STEP 2: Secure leg with supplied #6 screws



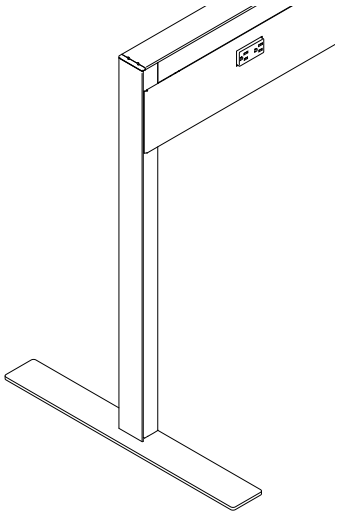
Round foot attaches in the same manner for post application (90/45/60) or alternate layouts.

Feet Orientation

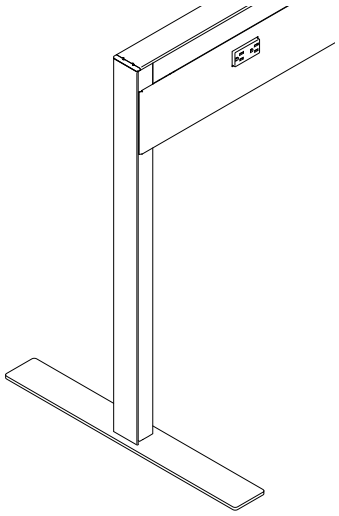
NOTE, The feet can be installed in 2 orientatons; outward (offset) or inward (centered).

The feet should generally be installed in the outward (offset) positon. The inward (centered) positon is only used at the end of a run and/or if there's some kind of interference that neccessitates it.

The different orientatons are acheived by spinning the foot 180 degrees. The foot is installed as described above and in both cases the foot post is slid in the same place in the extrusion.



Outward Oriented Foot
(Offset / Shared Foot)



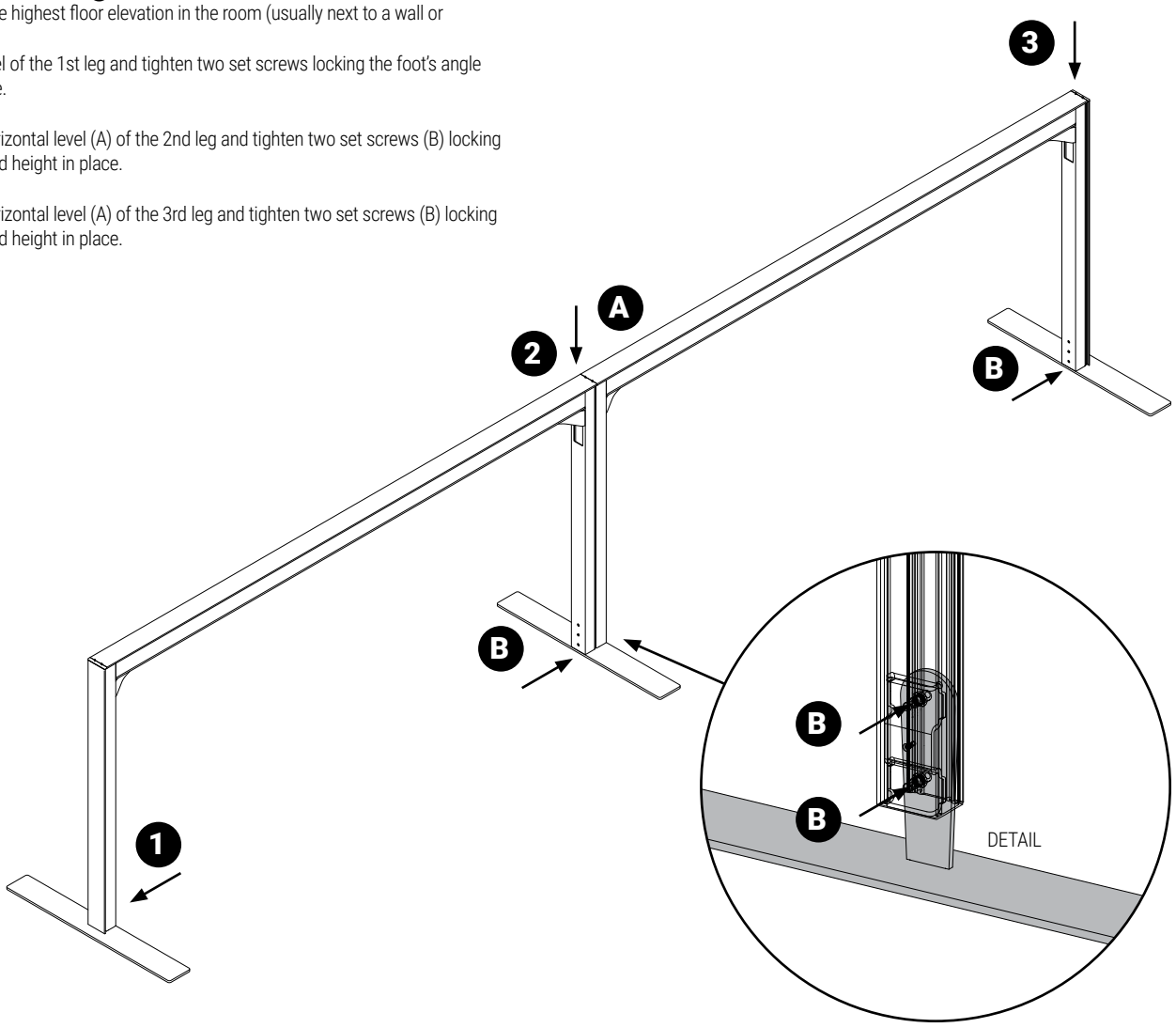
Inward Oriented Foot
(Centered Foot)

Beams - Levelling

STEP 1: Identify the highest floor elevation in the room (usually next to a wall or column).
Adjust vertical level of the 1st leg and tighten two set screws locking the foot's angle and height in place.

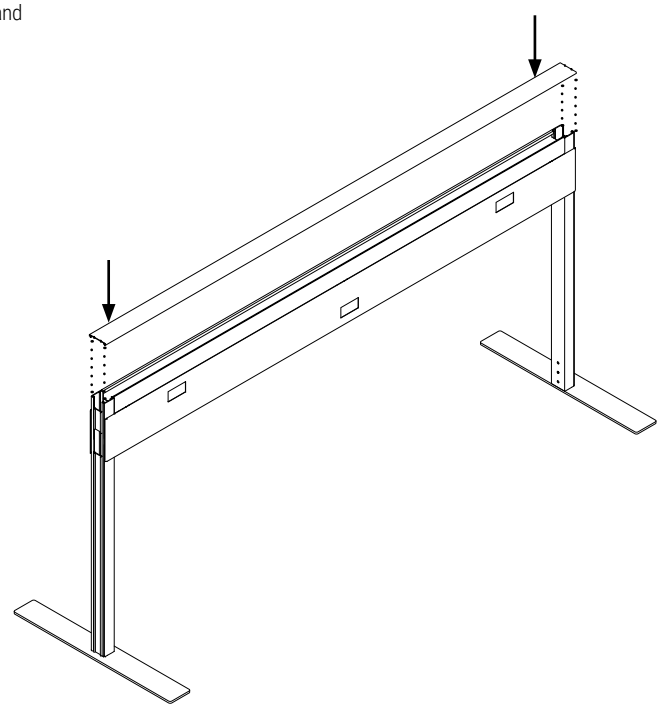
STEP 2: Adjust horizontal level (A) of the 2nd leg and tighten two set screws (B) locking the foot's angle and height in place.

STEP 3: Adjust horizontal level (A) of the 3rd leg and tighten two set screws (B) locking the foot's angle and height in place.



Top Trim

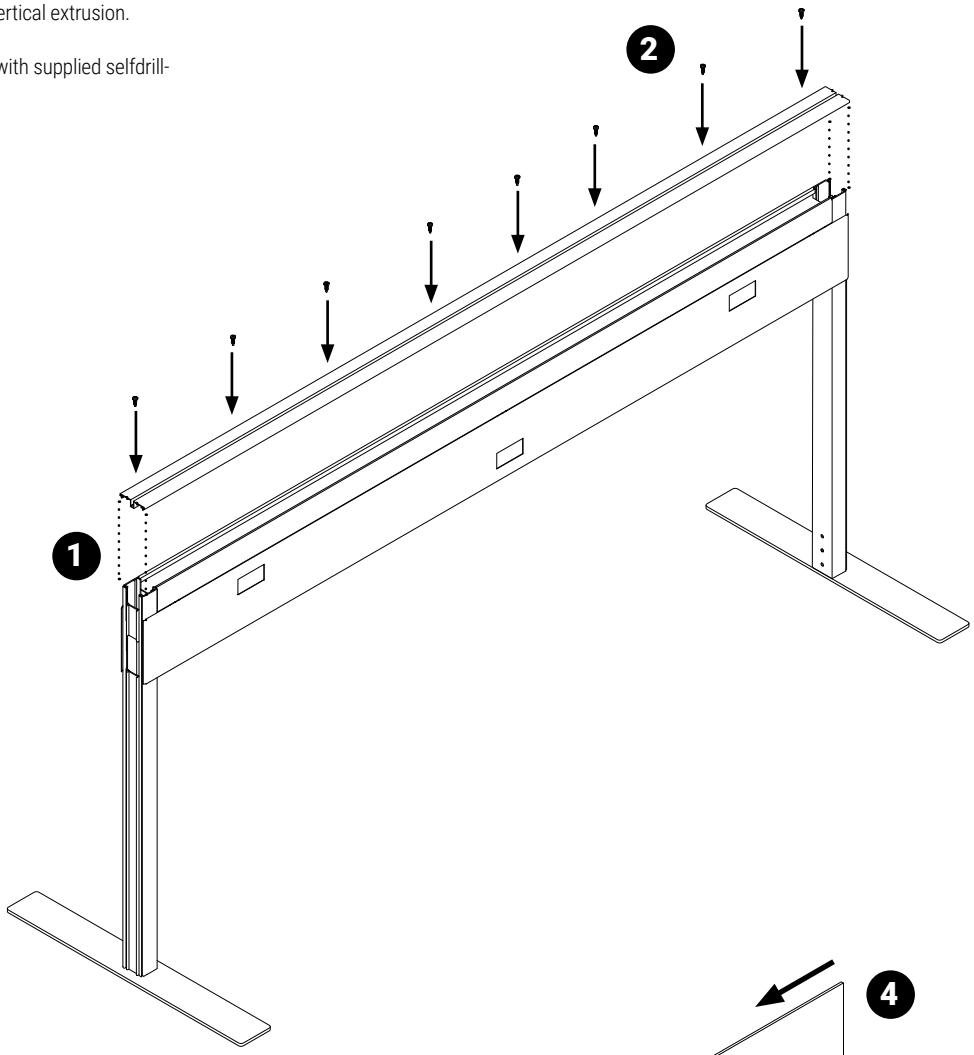
STEP 1: Align the Top trim end with the Bridges II Power Beams vertical extrusion and snap it in place.



Embedded PET Felt and Glass

STEP 1: Align the Top trim end with the Bridges II Power Beam vertical extrusion.

STEP 2: Secure the trim extrusion to the Bridges II Power Beam with supplied selfdrilling screws.

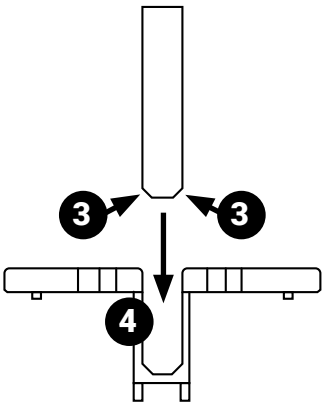


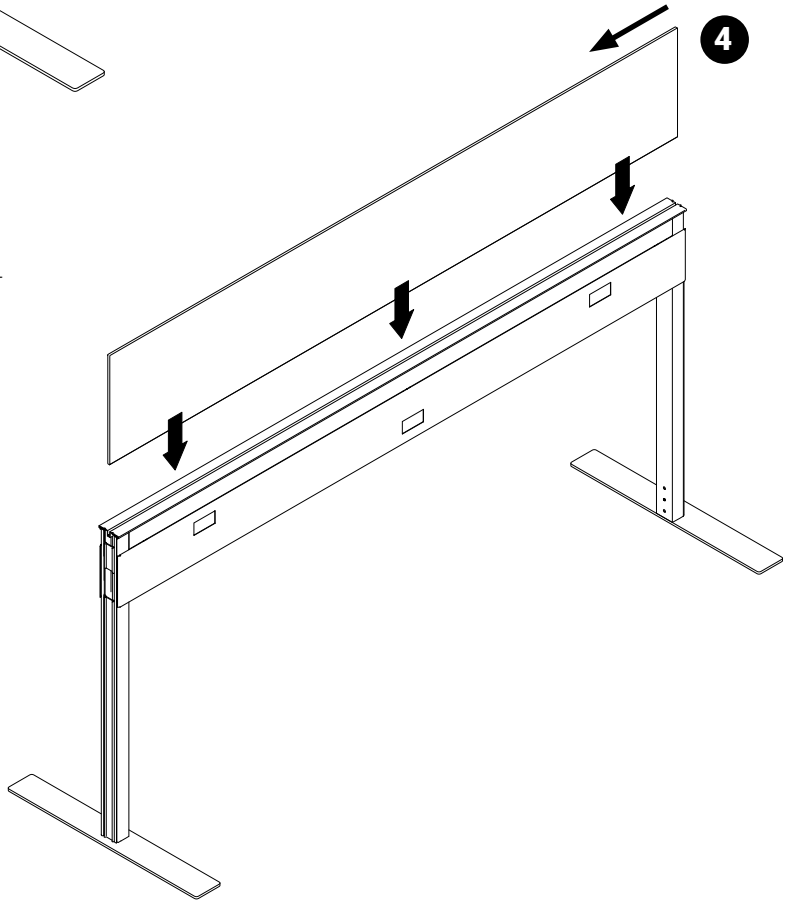
Embedded PET

STEP 3: Place the PET Felt on a clean, flat surface and run a hard object along PET felts bottom edges to compress fibers and form a chamfer.

STEP 4: Insert one corner of the PET felt into the groove in the top trim extrusion. Press gently and proceed from one end to the other.

Note: Gradual insertion might take several passes. Do not tap the top edge of the PET felt as this will permanently damage top edge.



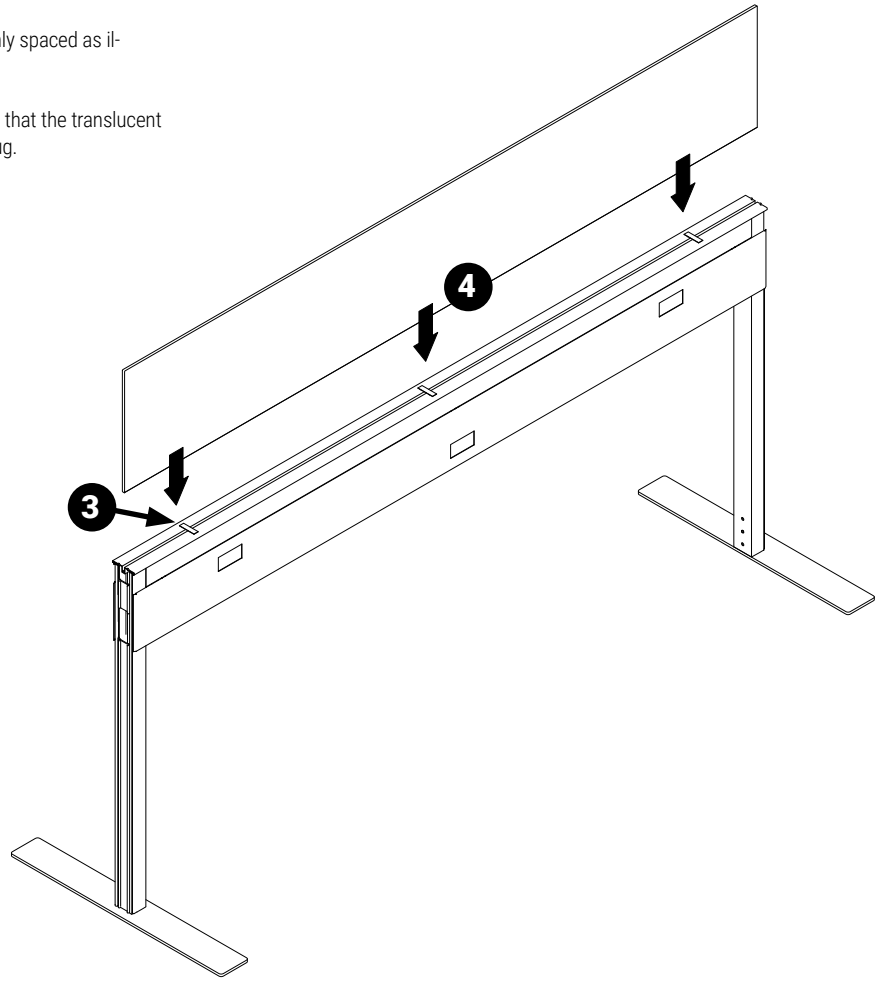


Embedded PET felt and Glass

Embedded Glass

STEP 3: Place supplied translucent gaskets across the gap, evenly spaced as illustrated.

STEP 4: Press the glass into the extrusion groove while ensuring that the translucent gaskets remain in place, filling the gap and making the glass snug.



Overpanel and Tiles

Over Panels

STEP 1: Remove the top cover trim from the power beam.

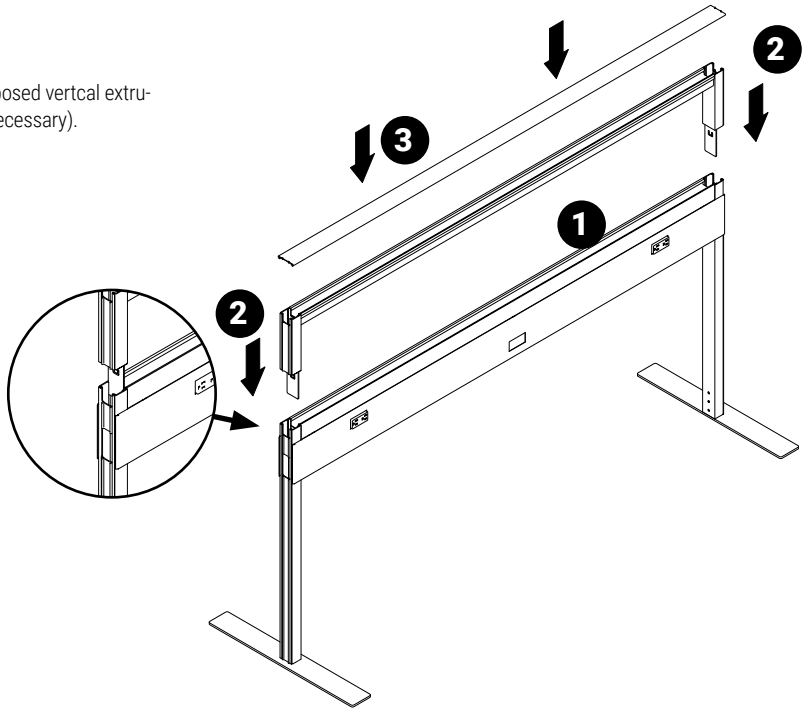
STEP 2: Insert brackets on both sides of the over panel into the exposed vertcal extrusions and push down. (Attach side by side with capture strips as necessary).

STEP 3: Attach top cover trim to the top of the over panel.

STEP 4: Install tile or pass thru kit as required.

Over panels MUST always be capture between:
- two posts
- a post and a wall adapter
- a wall adapter and a higher panel
- two taller panels
- OR one of the above and a vertical end trim

Over panels DO NOT have any hang on capability.



Tile Installation: Fabric & Accessory Tiles

STEP 1: Snap supplied clips into power beam's horizontal channel at level corresponding to tile's bottom edge and in proximity of where the tile's corner will be.

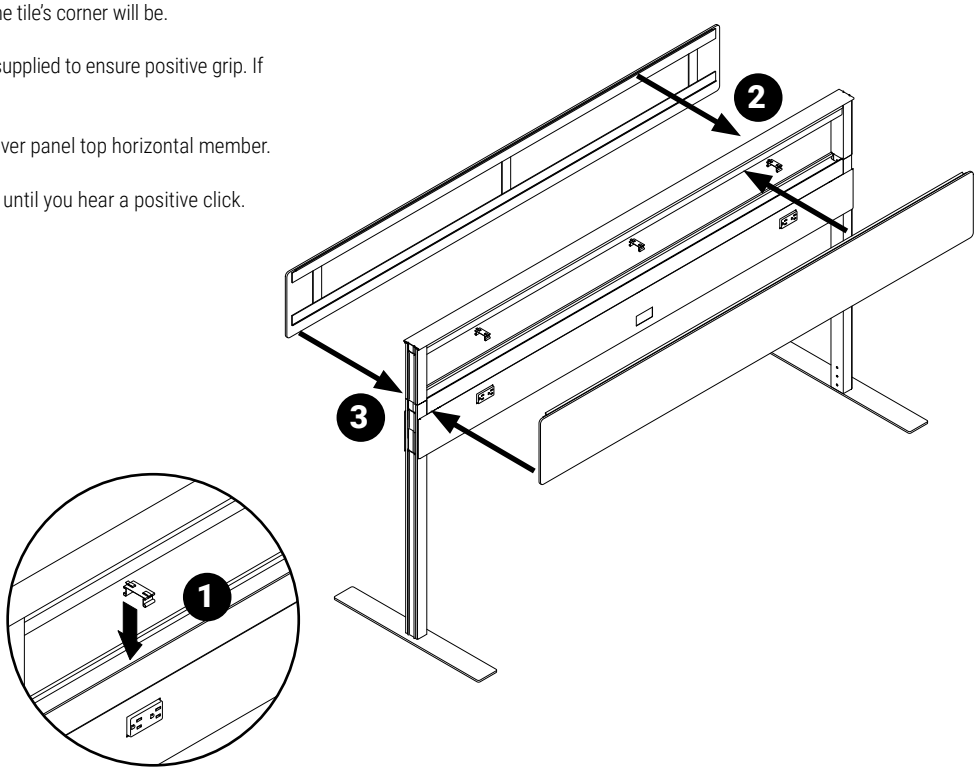
Depending on tile width, there may be several clips supplied to ensure positive grip. If so, install the clips at equal intervals.

STEP 2: Insert upper tile's lip into groove in panel/over panel top horizontal member.

STEP 3: Swing tile down and apply gentle pressure until you hear a positive click.

Over panles MUST always be capture between:
- two posts
- a post and a wall adapter
- a wall adapter and a higher panel
- two taller panels
- OR one of the above and a vertical end trim

Over panels DO NOT have any hang on capability.



Overpanel and Tiles

Tile Installation: Glazed Tiles

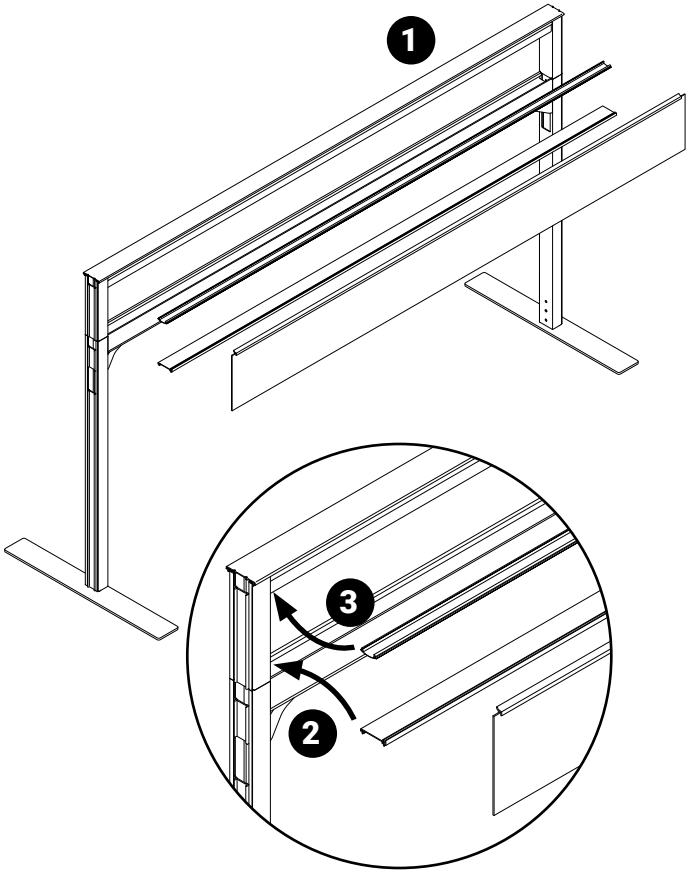
STEP 1: Snap in side covers.

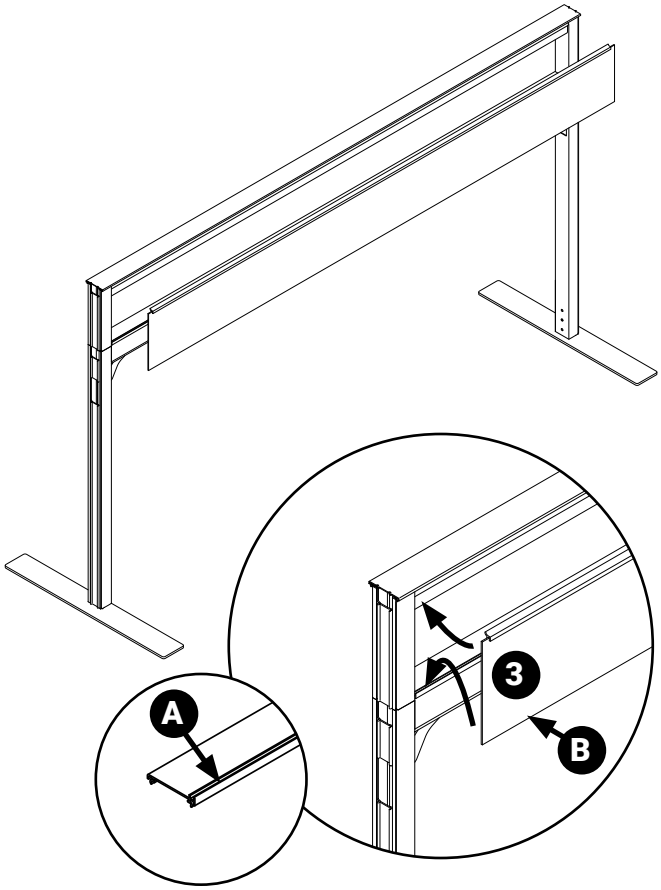
STEP 2: Place glazed tile bottom retaining extrusion so that groove A faces the "glaazed" panel side.

STEP 3: Insert tile's upper lip into groove in over panel's top horizontal member.

STEP 4: Swing tile down with one hand, as you do so, angle the bottom retaining extrusion with the other had so that retaining groove A captures glass bottom edge B.

Apply downward pressure along the opposite edge of the retaining extrusion until it snaps firmly on the beam.

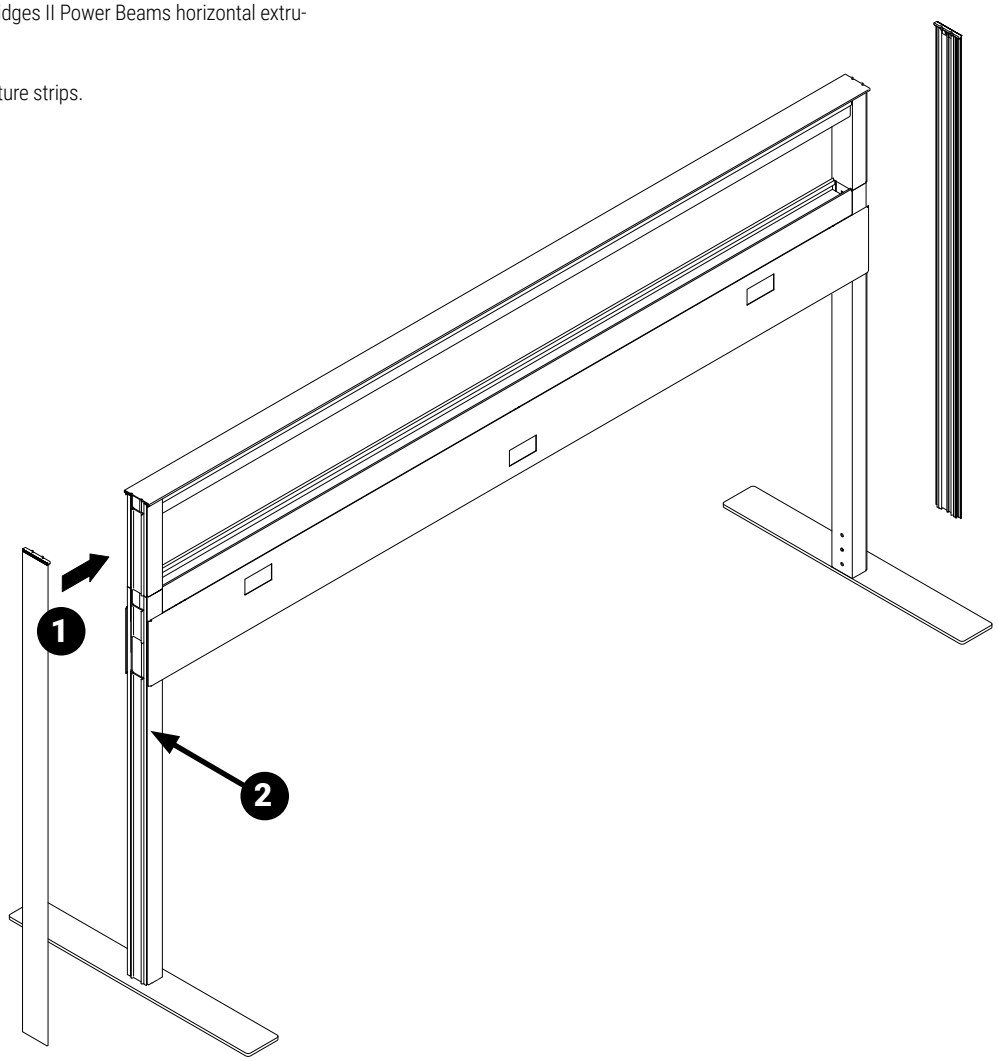




End of Run Trim

STEP 1: Align Vertical end trim end with the Bridges II Power Beams horizontal extrusion.

STEP 2: Secure the end trim with supplied capture strips.



Electrical Connection to the Power Supply

Once you have all the electrical components in the power beams, it is recommended that you check the entire installation against the electrical plans, ensuring that all components are at specified locations and are mechanically interconnected.

Note: Always determine that the harness is electrically connected to only one power supply.

It is recommended that installation of the electrical harness be made under the supervision of a licensed electrician in accordance with applicable codes and regulations.

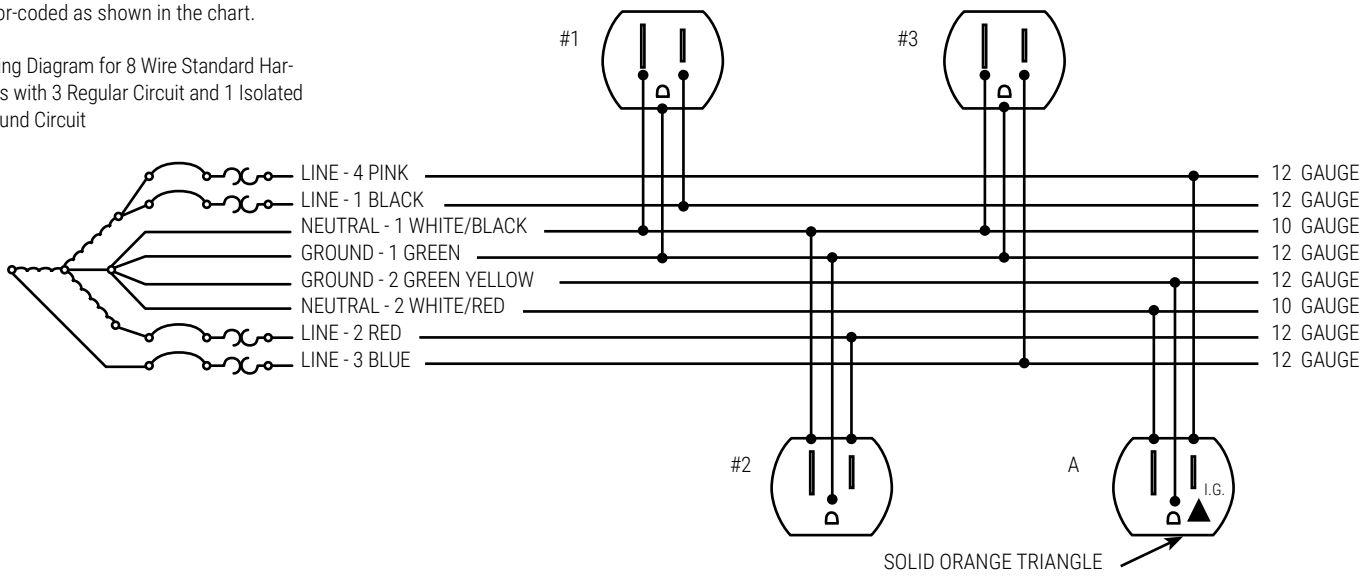
After the connection has been completed, close metal junction boxes and activate the power.

Check the power distribution throughout the whole installation before the customer's sign off.

Any alterations to UL or CSA listed panels and electrical components will void the listing and the manufacturer's warranty. The manufacturer will not be responsible for any damage or bodily harm caused by codes and manufacturer's specifications.

All types of Power Feeds (BE81BF, BE8CF120-1, BE8CF120-2, BE8CF144-1, BE8CF144-2) are ready to be hard-wired to the building power supply. The wires are color-coded as shown in the chart.

Wiring Diagram for 8 Wire Standard Harness with 3 Regular Circuit and 1 Isolated Ground Circuit



8 Wires
4 Lines (12ga)
2 Neutrals (10ga)
2 Grounds (12ga)

4 Circuits
3 Utility circuits
1 isolated circuit

Receptacles
Simplex - transient voltage surge suppressed
Duplex - Up to 6 duplex receptacles per circuit

Specifications
120 VAC system rated at 20A (15 CSA)

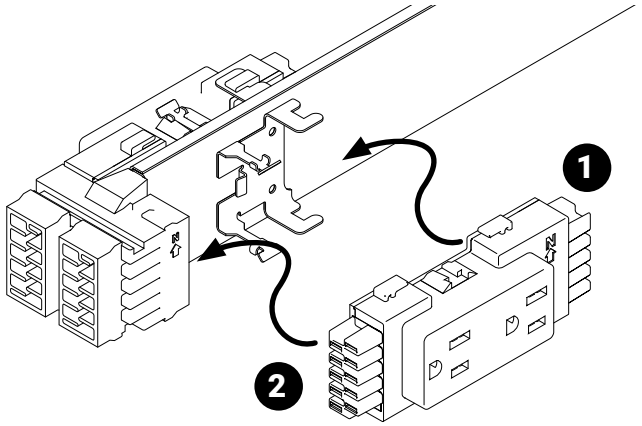
Duplex Receptacle

BE8D1/BE8D2/BE8D3/BE8DA Duplex Receptacle
After cables, jumpers, power feeds and power distribution housings are connected and installed in the Power Beams. Install duplex receptacles at the specified locations (do not connect power feed to building power supply yet).

Note: It is important to follow your electrical plans exactly since these were created based on maximum current capacity of each circuit. Each circuit is rated at 15 ampls in Canada (20 amps in USA). Maximum Duplex Receptacles per circuit is 6. Failure to do so may overload the circuit, thus causing electrical issues, electrical shock or even risk of fire.

STEP 1: Postion the receptacle into the mounting bracket on the Power Distribution housing. There is an arrow and letter "N" to indicate which way is up.

STEP 2: Slide it towards the assembly connectors. Be sure the parts are fully seated to assure proper electrical connection and the spring clips are properly engaged for mechanical security.



Jumper and Power Distribution Housing - Base Raceway

The Power Distribution Housing is mechanically attached to the Power Beam via the cam-lock hole located on the underside of the horizontal extrusion. It serves to provide an attachment point and electrical connection for duplex receptacles, flexible harness connections and power entry components.

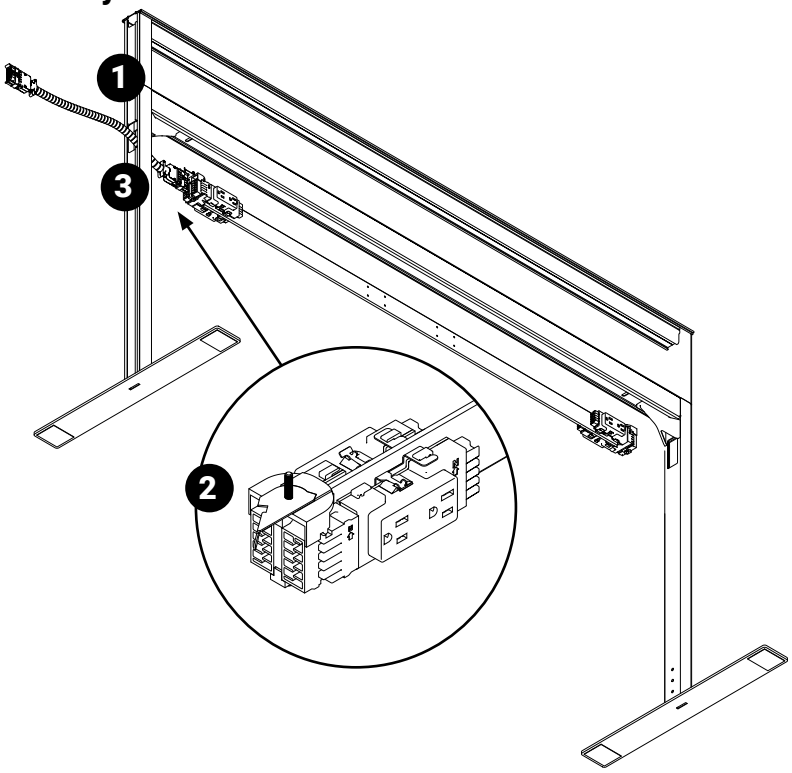
Ensure that all beams are mechanically connected prior to electrical connection.

STEP 1: Attach the Power Distribution Housing to the underside of the horizontal extrusion. To do this, align the cam locks with the oblong holes in the underside of the extrusion.

STEP 2: Mechanically secure the Power Distribution Housing to the power beam by rotating both cam locks.

STEP 3: Connect jumpers and power feeds.

NOTE: Base feed harness must be connected to the Power Distribution Module and the raceway cover must be in place prior to securing the base feed shroud to the power beam leg.



Ceiling Feed

STEP 1: Remove post top cap.

STEP 2: Identify proper length of Post Extension (BEPE).
Cut to desired length (if necessary). Ensure that Post Extension will protrude 6" above ceiling tile.

STEP 3: Locate Post Extension over selected Post. Use a level to position Post Extension accurately and trace outline on ceiling tile.

STEP 4: Cut out traced hole in ceiling tile and re-position the tile in place to ensure proper alignment. Set aside.

STEP 5: Insert Post Extension pins into Post.

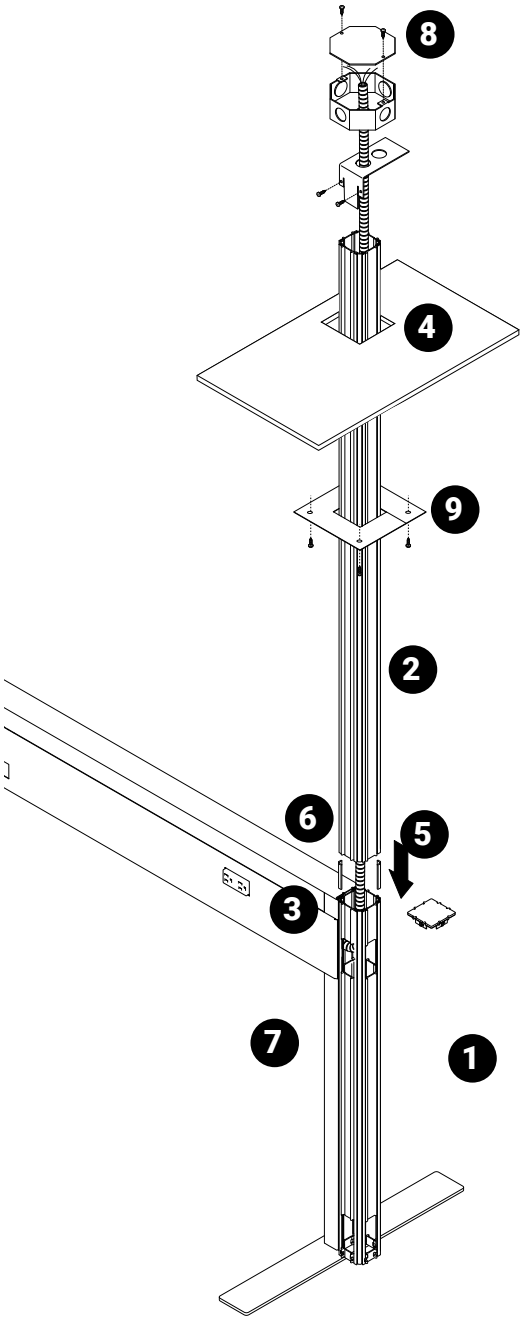
STEP 6: Align Post Extension with the pins in the Post. Gently tap the top of the Post Extension until it is joined with the Post.

STEP 7: Thread the ceiling feed harness BE8CF down through Post Extension and into power beam raceway.

STEP 8: Engage the junction box bracket into the Post Extension. Tighten the set screw.

STEP 9: Place supplied bezel around Post Extension and fasten to ceiling tile with supplied screws.

Note: There must be only one power feed entry into each cluster of harnesses.
Connection to the building power supply must be done only by a licenced electrician and in accordance with applicable codes and regulations.
Do not connect or disconnect components while the system is under load!
Disconnect the main power before servicing or reconfiguration.



Base Feed Power

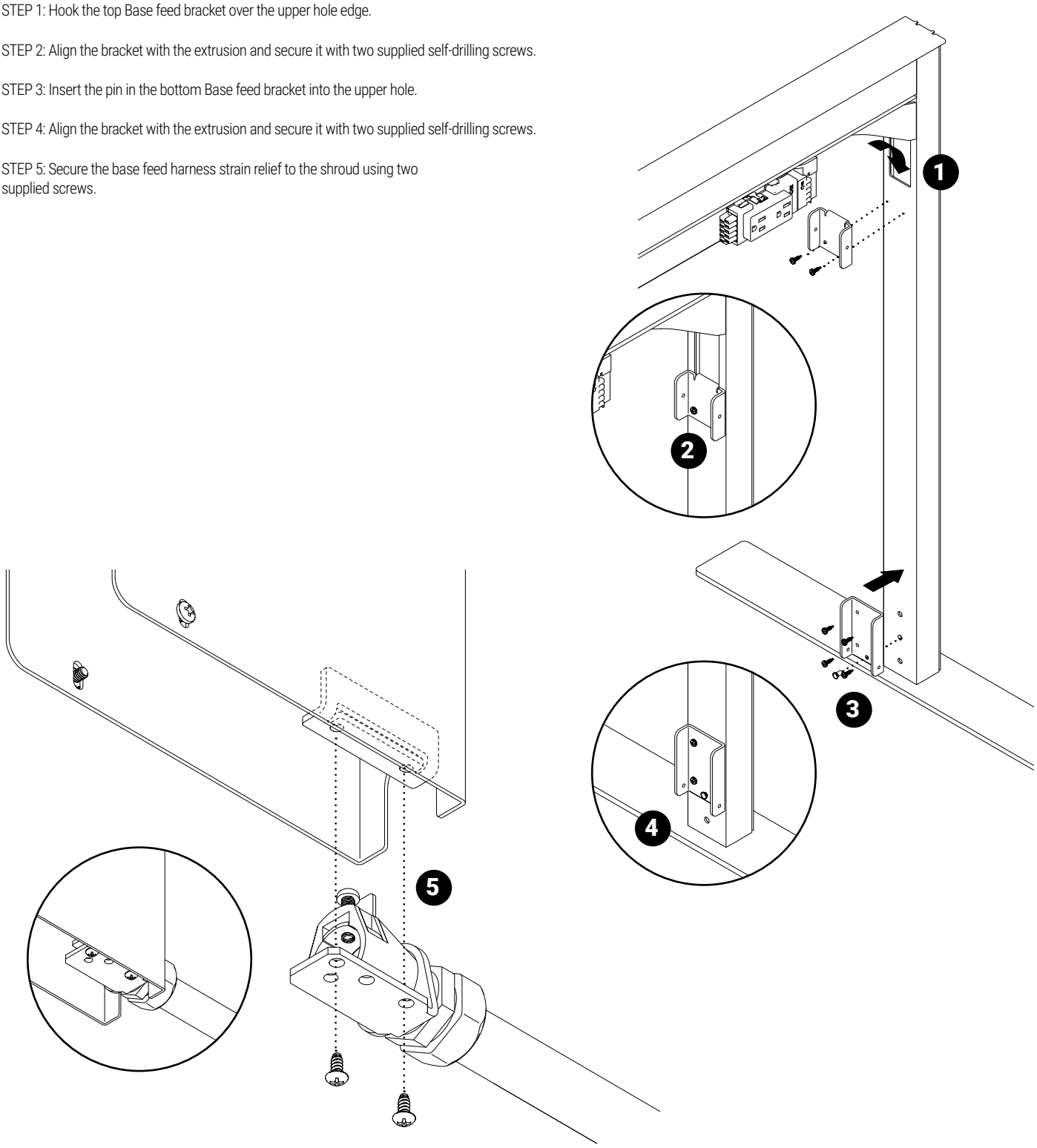
STEP 1: Hook the top Base feed bracket over the upper hole edge.

STEP 2: Align the bracket with the extrusion and secure it with two supplied self-drilling screws.

STEP 3: Insert the pin in the bottom Base feed bracket into the upper hole.

STEP 4: Align the bracket with the extrusion and secure it with two supplied self-drilling screws.

STEP 5: Secure the base feed harness strain relief to the shroud using two supplied screws.



Base Feed Power

NOTE: Base Feed harness must be connected to the Power Distribution Module and the raceway cover must be in place prior to securing Base feed shroud to the Bridges II Power Beam leg.

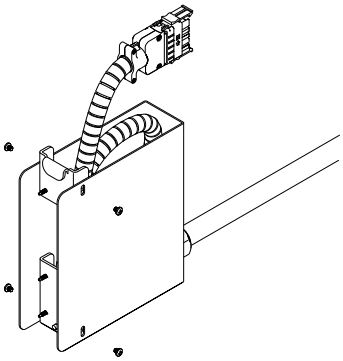
STEP 6: Connect Base Feed harness to the Power Distribution Module.

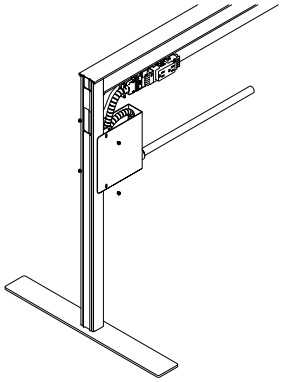
STEP 7: Install raceway covers.

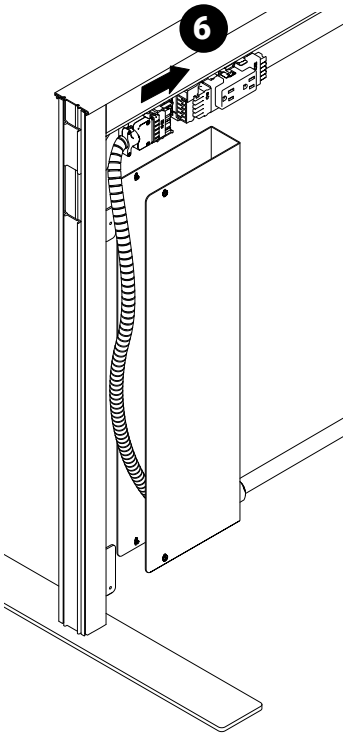
STEP 8: Align 4 oblong holes in the shroud with threaded holes in top and bottom brackets. Secure the shroud with 4 machine screws.

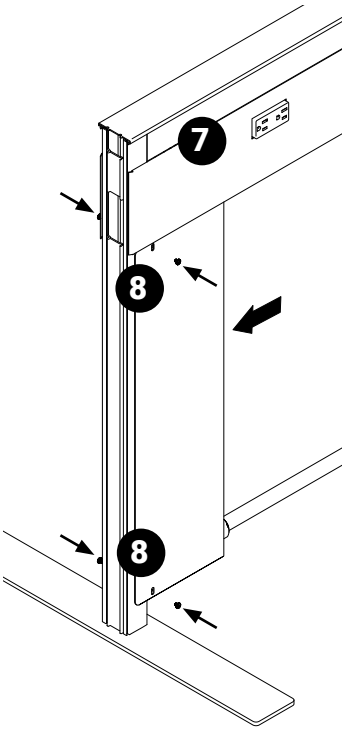
All three Bridges II Power Beam heights (18" 26" and 34") utilize one Base feed harness housed inside of three heights of Base Feed shrouds.

When installing the shortest shroud to the 18" Power Beam coil the conduit inside the shroud.







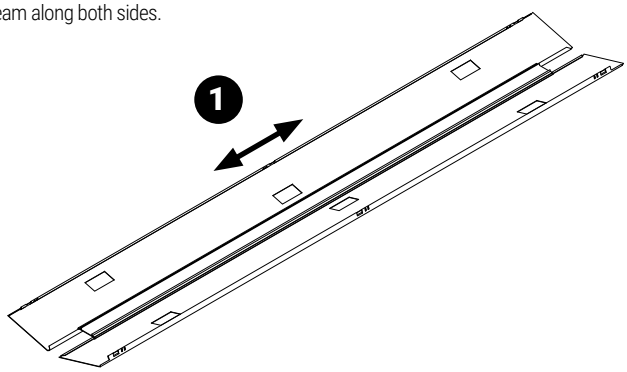


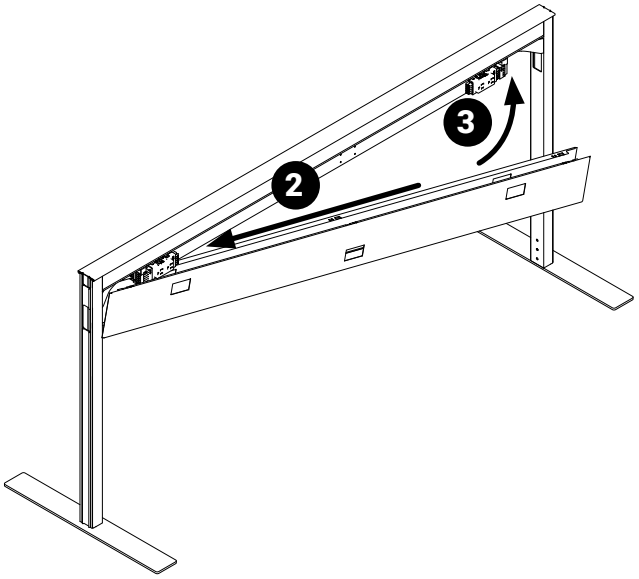
Raceway Cover

STEP 1: Open the raceway cover and slide duplex hole and data hole covers out of the way as required.

STEP 2: Slide on end of the raceway cover at an angle over the leg on one side.

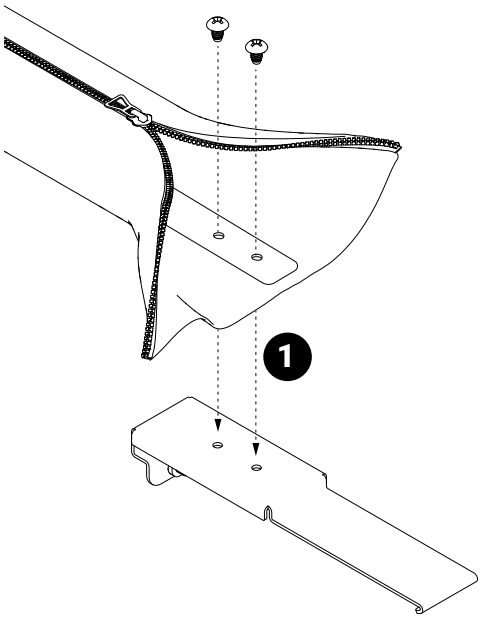
STEP 3: Bring the raceway cover to a horizontal position and snap it into the extruded beam along both sides.





Power Beam Tube

STEP 1: Screw bottom of tube to bracket.
(Zipper stops are at this end.)
BR00565002 No.8 x 3/8" Thread Forming Screw
QTY: 2



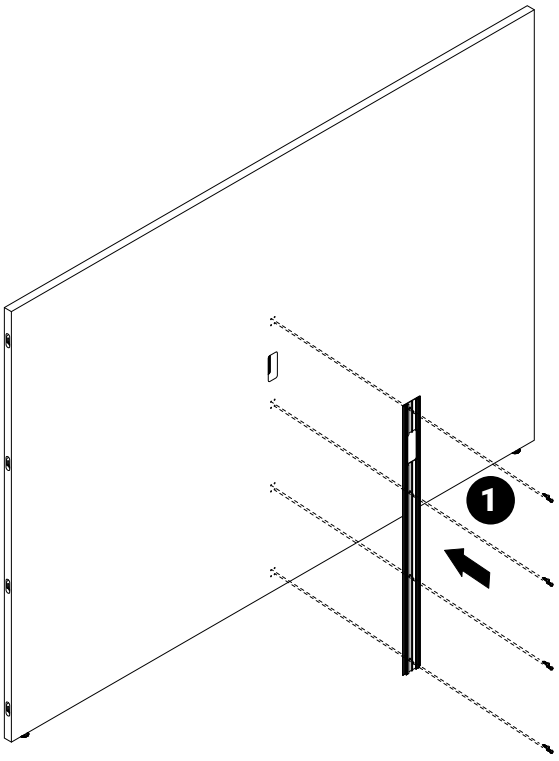
Gallery Panels

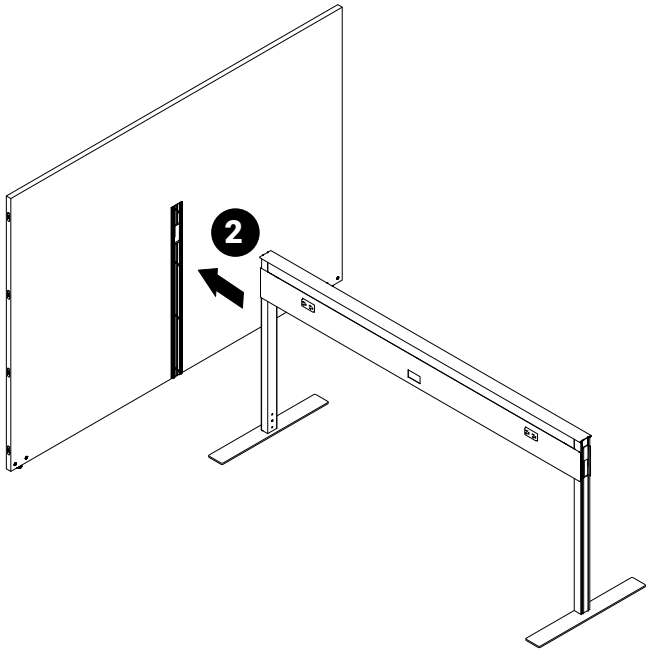
STEP 1: Using the wood screws attach the Boulevard Aluminum Flat End Trim into provided pilot holes on the Gallery panel.

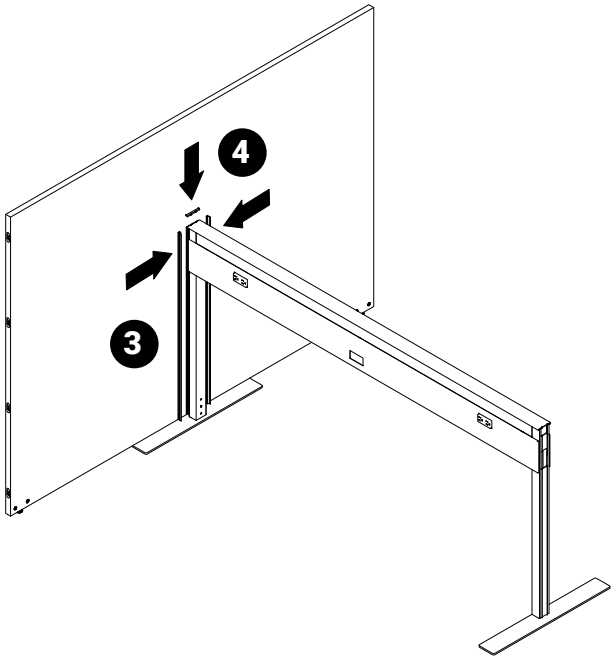
STEP 2: Engage a Bridges II Power Beam with the Gallery panel so that the vertical knuckles interlock with the grooves on the Flat End Trim.

STEP 3: Press in panel connector "Capture Strip" on both sides of the Bridges II Power Beam.

STEP 4: Mount the provided Flat End Trim cap.







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