



PolyVision®

a³ CERAMICSTEEL WORKWALL TECHNICAL GUIDE


PolyVision a³™ CeramicSteel Workwall maximizes the use of vertical space while eliminating the need for multiple boards. A series of vertically oriented whiteboard panels are spline jointed together and trimmed with an aluminum extrusion on the “wall” outer edges. Floor-to-ceiling Workwall is a custom/special order product. The following provides guidelines for installing your new system.

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SAFETY REQUIREMENTS

a³ CeramicSteel Workwall - Wall Mounted Dry Erase Board, Non-Seismic Applications

The building's Engineer of Record must be consulted to determine if there are any seismic requirements.

	⚠ CAUTION CRUSH HAZARD. Failure to properly secure board could result in personal injury.
	⚠ ATTENTION RISQUE D'ÉCRASEMENT. Ne pas attacher la planche de manière sûre pourrait entraîner des blessures personnelles.
SAFETY INSTRUCTIONS Read all assembly directions before beginning installation. Building construction varies greatly. The Building's Engineer of Record is responsible for the design of building walls which the boards are attached to and must verify the adequacy of the mounting hardware, even if provided by PolyVision. The building owner or designated agent is responsible for verifying that the installation is in compliance with all local codes and regulations.	
INSTRUCTIONS DE SÉCURITÉ Lisez l'ensemble des instructions d'assemblage avant de démarrer l'installation. La construction des bâtiments varie grandement. L'ingénieur d'enregistrement du bâtiment est responsable de la conception des murs sur lesquels sont attachées les planches et doit vérifier que le matériel de montage est adéquat, même si ce dernier est fourni par PolyVision. Le propriétaire du bâtiment ou l'agent désigné a la responsabilité de vérifier que l'installation est conforme à l'ensemble des codes et réglementations locaux.	
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Verify Wall Construction

CAUTION: Adequate wall construction is required to support the weight of the board. Minimum wall construction must be capable of supporting weight amounts listed in Table 1 on page 12.

Minimum Required Wall Construction

Drywall with metal studs:

- Must be at least 25 ga. (0.018" or .5 mm thk.) 33 ksi steel studs 38 mm x 89 mm (1.5" x 3.5")
- Studs on maximum 610 mm (24") centers
- Must be at least 16 mm (5/8") thick Type X gypsum drywall for the US or 12 mm (1/2") for EU
- 32 mm (#6 x 1-1/4") drywall screws on 305 mm (12") centers

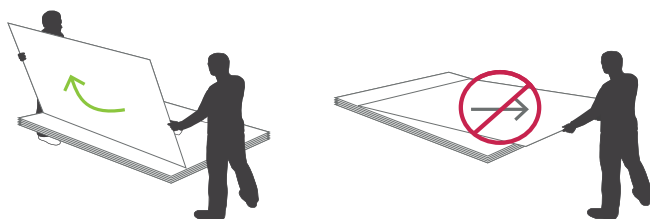
Drywall with wood studs:

- Stud grade SPF, DF-L, or Hem-Fir 38 mm x 89 mm (1.5" x 3.5")
- Studs on 610 mm (24") centers
- Must be at least 16 mm (5/8") thick Type X gypsum drywall for the US or 12 mm (1/2") for EU
- 32 mm (#6 x 1-1/4") drywall screws on 305 mm (12") centers

HANDLING + STORING OF PANELS

Handling

- When a³ CeramicSteel panels are shipped, they are protected by craft paper or a self-adhesive transparent polyethylene film. Keep panels in the original package until installation.
- Handle with care to prevent damage.
- Never slide panels off the stack during handling. Panels should always be lifted and moved in a vertical position.
- Never place an a³ panel in a vertical position on the floor. This is to prevent damage to the edges.
- Prevent dirt from settling on and between panels to avoid surface damage, scratches or defects.
- Follow all safety instructions regarding personal protection when processing the panels.
- Protect panel surface against sawdust and sparks (metal particles).
- a³ CeramicSteel will chip when cut or drilled with power tools. Hand-cutting can cause chipping up to approx. 2 mm from the edge. When chipping is in excess of 2 mm, please check the state of cutting tools and check that the panel is adequately supported and clamped to prevent it from vibrating.
- All cut or drilled sections should be protected against humidity with PVC tape and/or by covering/sealing profiles or sealing washers.
- For detailed processing instructions, please refer to the a³ processing instructions.



Storing

- Keep panels dry and free of debris.
- Store panels inside temps 50-90 °F (10-32 °C).
- Any panels stored outside should be protected from inclement weather conditions.
- Place panels on hard, flat surfaces that are not subject to standing water.
- a³ CeramicSteel panels should be stacked no more than three high.
- Panels should never be stored vertically or in such a way that the corners are vulnerable to damage.

If you have a problem, question, or a request, call your local fabricator, your regional sales manager or PolyVision Customer Service. PolyVision's global customer service team can be contacted on polyvision.com.

REQUIRED EQUIPMENT

Electrical Equipment

1. Drill
2. Miter saw
3. Grinder
4. Jigsaw
5. Industrial vacuum cleaner
6. Panelsaw with guide

Hardware Equipment

1. Level (laser level recommended)
2. Aluminum straight guide
3. Chalk line
4. Anchors adapted to wall
 - For gypsum walls, use #8 plastic wall anchor with #8 x 1-1/4" (4 mm x 35 mm) self drilling screws.
 - For stone walls, anchors and screws must be provided by installer per conditions.
 - Recommended anchor spacing is 406 mm (16") to 610 mm (24") on center
5. Shims 1 mm - 2 mm - 3 mm (1/32" - 1/16" - 1/8")
6. Soft wood block ± 50 mm x 25 mm x 300 mm (2" x 1" x 12") length or rubber mallet to knock in the coverstrip
7. Glass suction cup lifters (2)
8. New and unused cemented carbide (tungsten carbide, titanium carbide...) saw blade with a minimum of 60 teeth
9. Scrap lumber

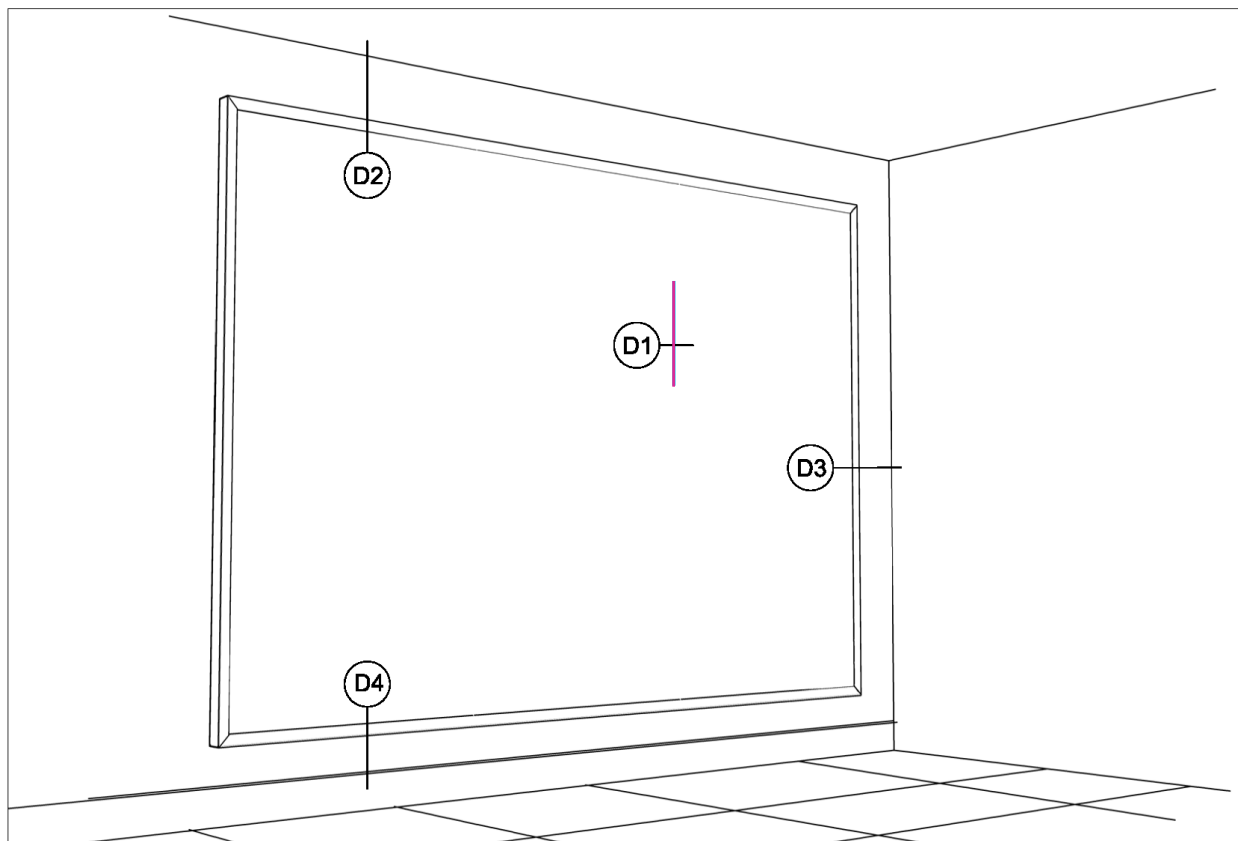
Included Hardware

1. Anchors
2. Screws
3. Temporary cover trims (2)

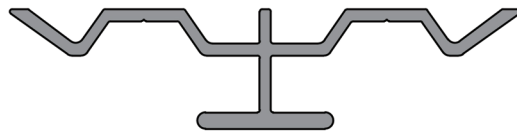
KEY TO SYSTEM DETAILS

The details listed in the image below show placement for panel profiles and how the material can be installed.

IMPORTANT: Profiles must be secured to studs in as many locations as possible and at least 24" o.c. for horizontals and 18" o.c. for verticals.



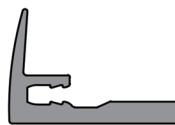
STANDARD EXTRUSIONS



509825 Joint spline extrusion



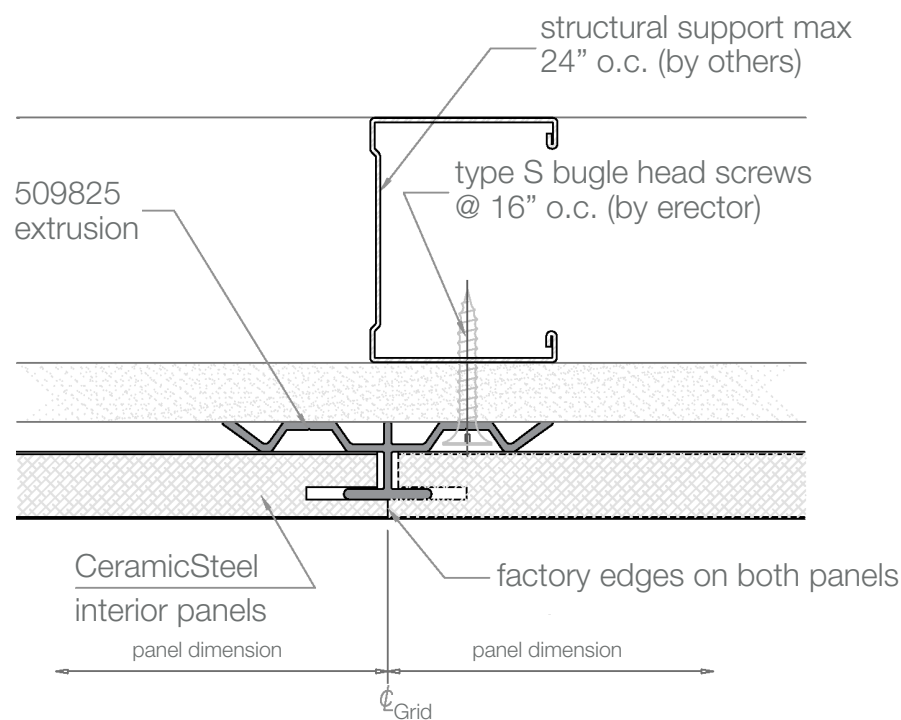
509821 End stop spline extrusion



509822 Snap in trim extrusion (clear anodized)

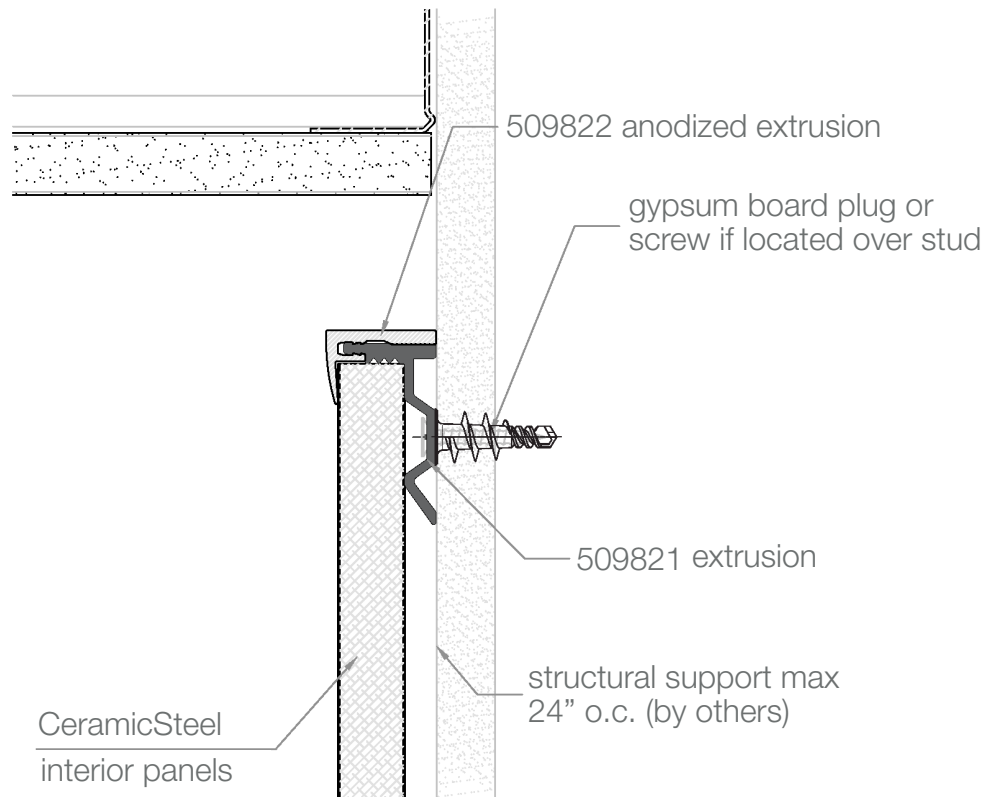
D1

VERTICAL BUTT JOINTS



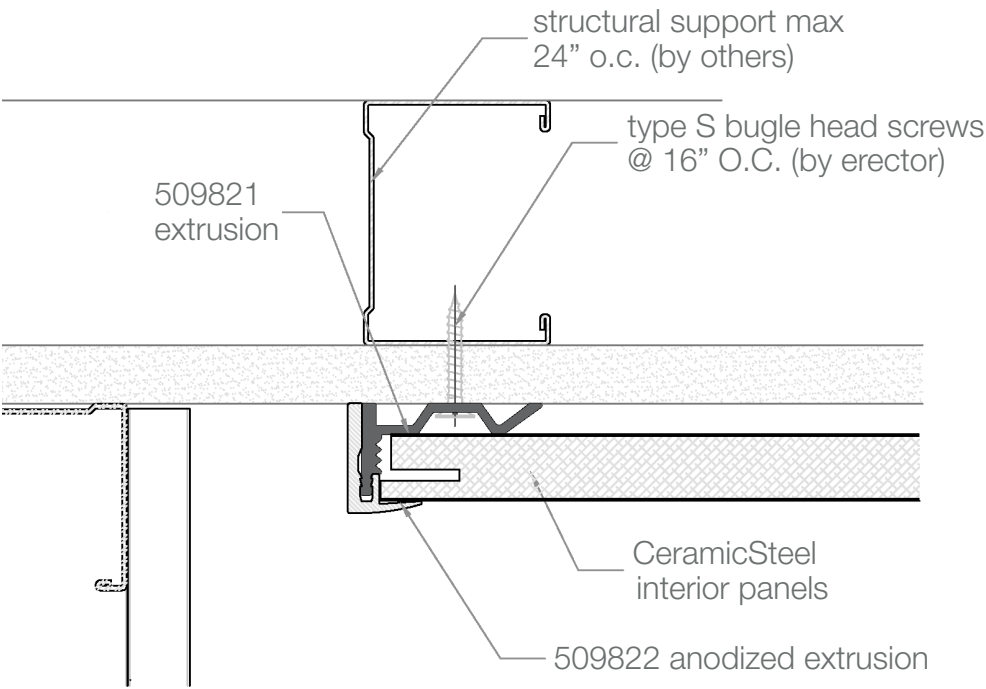
D2

PANEL HEAD AT CEILING



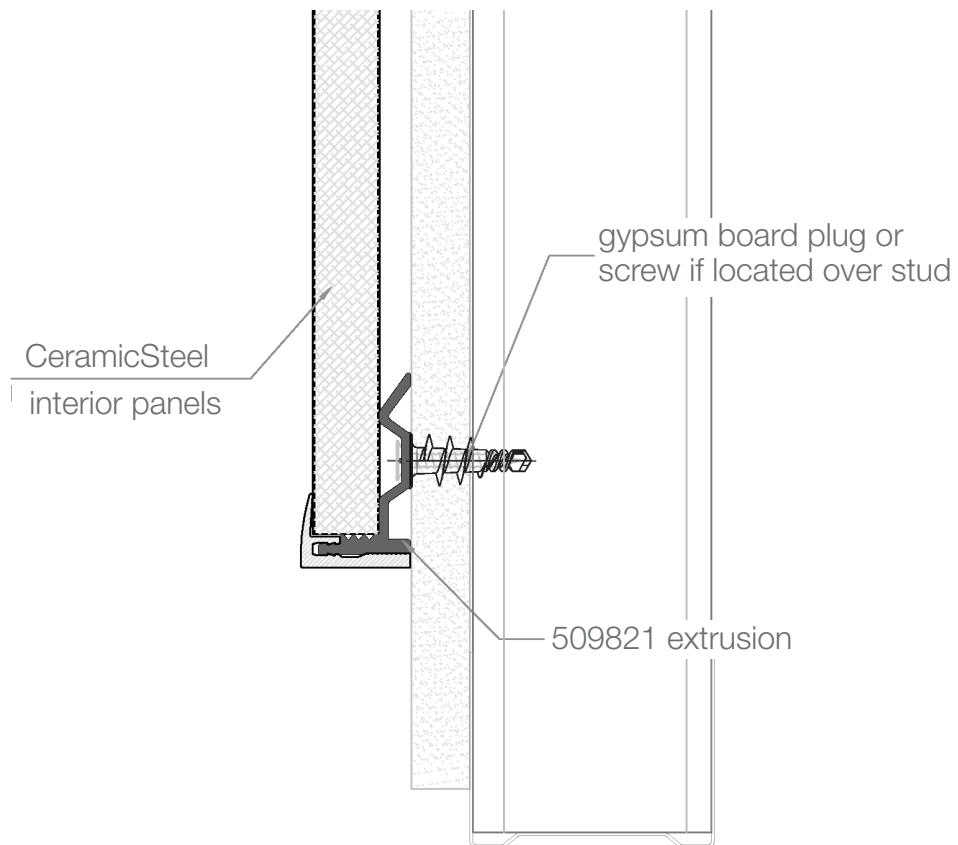
D3

PANEL TERMINATOR AT WALL



D4

PANEL BOTTOM LINE



INSTALLATION

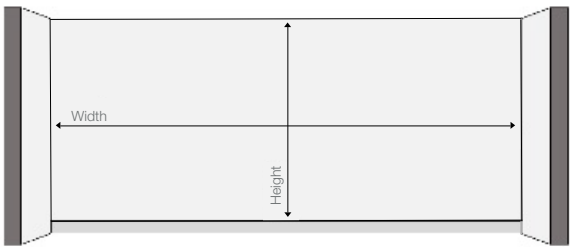
Before starting the installation of a³ CeramicSteel Workwall

1. Verify that the required equipment is available and material provided is accurate.
2. Provide adequate protection for finished floor surfaces.
3. If cutouts are required for electrical outlets or switches, refer to the following instructions.
 - Square penetrations for light switches and electrical outlets can be made by first drilling a pilot hole and then cutting with a jig saw using a metal cutting blade minimum 14 TPI (teeth per inch).
 - All cutouts should be made with the finish side up, through the protective polyfilm and a layer of common masking tape. Apply masking tape to the entire area. Be sure to apply enough to protect the surface from the baseplate of the saw.
 - Metal burrs left after cutting can be removed with a file or fine sand paper.

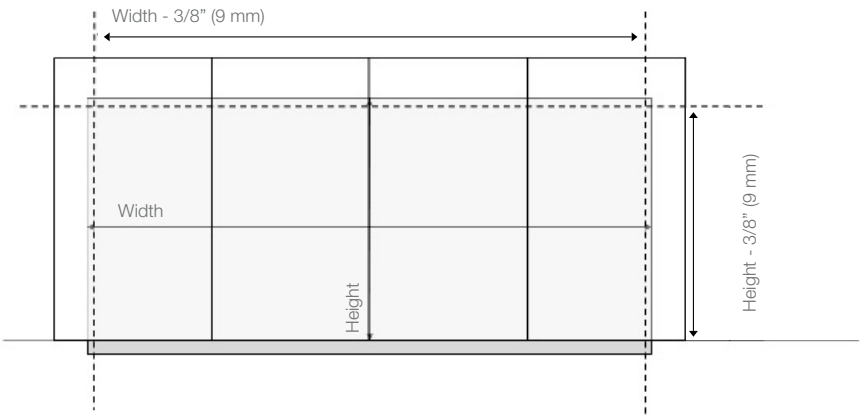
TABLE 1	
Product	Weight (kgs/lbs)
Workwall 1830	28 kgs/61.7 lbs
Workwall 2420	37 kgs/81.5 lbs

Step One

1. Your panels will likely need to be cut to fit the wall. Make an accurate measurement of the area you want to cover with the panels, mark the height and width of the final workwall surface.

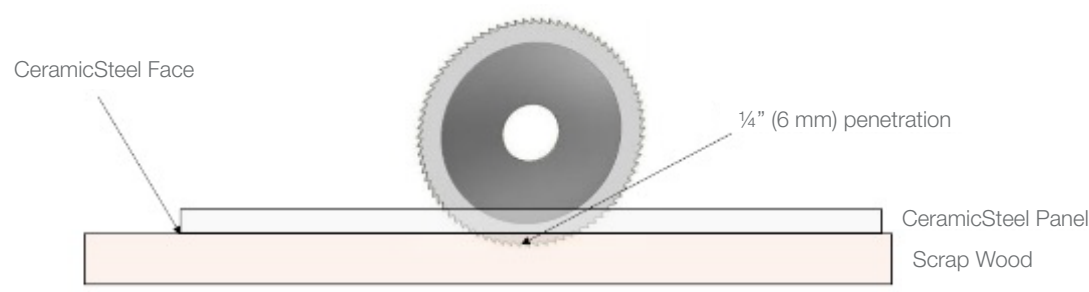


2. Sketch the panel arrangement. Panel height should be the wall height less 3/8" (9 mm). Each panel provided is 46 5/8" (1185 mm) wide. The final total width of all panels should be the wall width less 3/8" (9 mm).



INSTALLATION

3. The panels must be cut according to this arrangement. When cutting the panels, use a panelsaw with guide equipped with a new, unused cemented carbide saw blade. Place the panel on scrap wood at least 1" (25 mm) thick with the CeramicSteel (smooth side) facing down. Cut the panel using the saw guide penetrating the scrap wood beneath approximately ¼" (6 mm).



Step Two

1. Start with a leveled line for the bottom profile. A laser level is recommended. Be sure to allow a minimum of 3 mm (1/8") space between the profile and the wall base molding.
2. Mark and drill the holes in the wall.
3. Attach the profile (509821) using the provided anchors. Refer to Table 2 for profile dimensions.

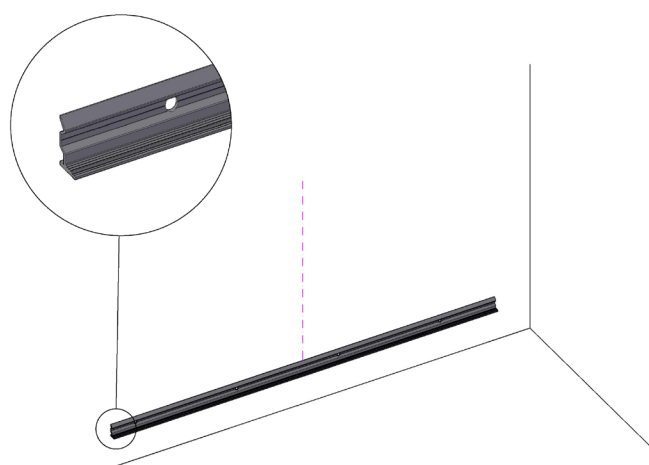
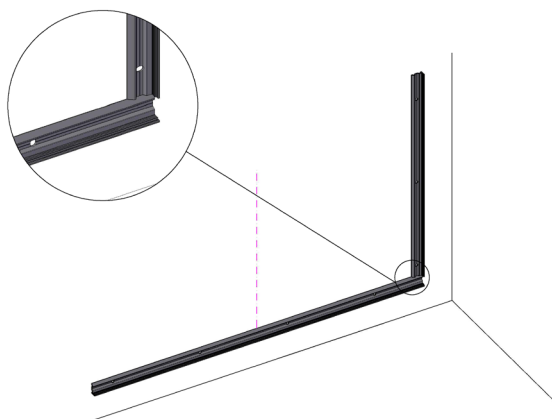


TABLE 2		
Panel	Qty	Horizontal Profile
1 panel	2	1195 mm (47 1/16")
2 panel	2	2380 mm (93 11/16")
3 panel	2	3565 mm (140 5/16")
4 panel	2	4750 mm (187")

INSTALLATION

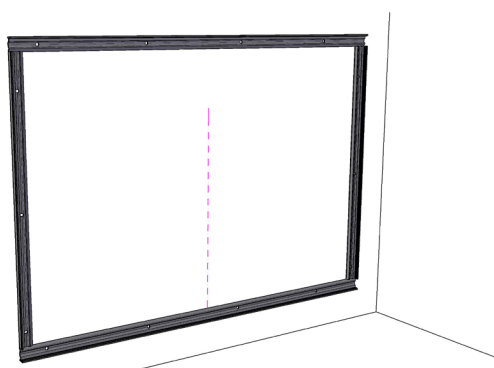
Step Three

1. Start with a leveled line for the vertical profile. A laser level is recommended. Be sure to allow a minimum of 3 mm (1/8") space between the profile and any existing wall.
2. Mark and drill the holes in the wall.



Step Four

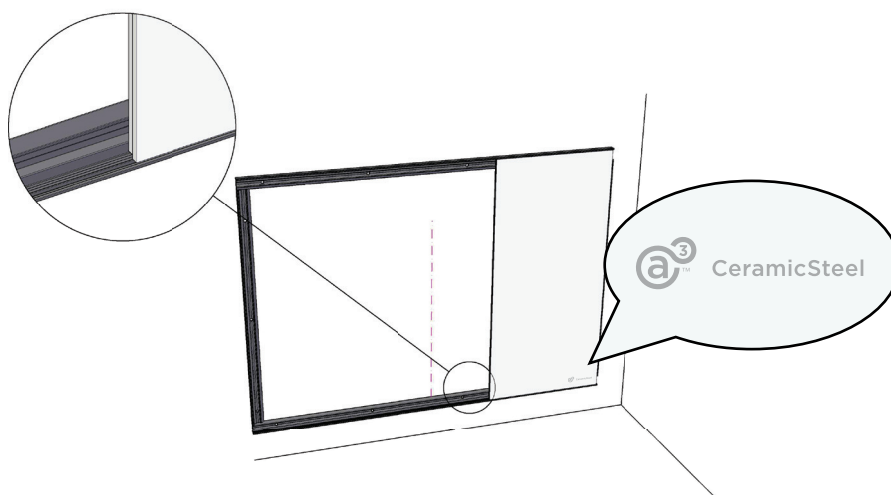
1. Repeat steps 1 and 2 for top and adjacent vertical profiles.
2. Mark and drill the holes in the wall.



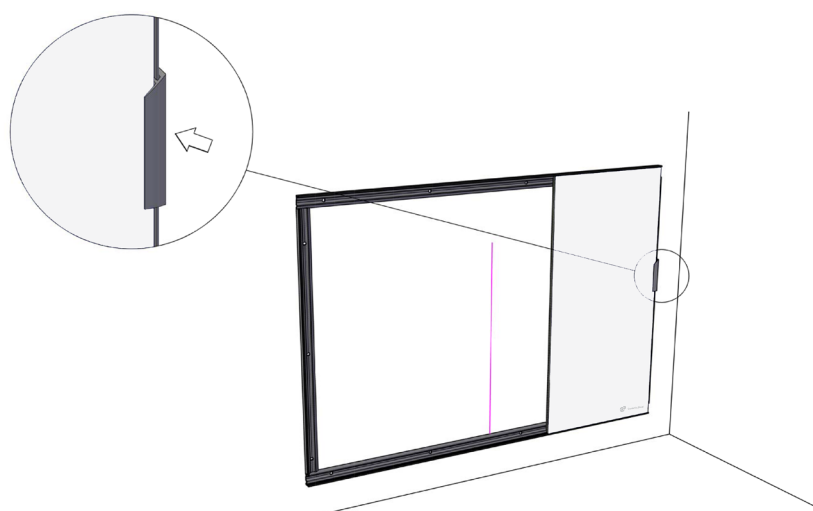
INSTALLATION

Step Five

1. Before installing the first panel, locate the panel with the logo in the bottom right corner. (Note that the logo is not drawn to size.) This panel will need to be the furthest right panel. This installation guide shows the logo panel as the first to be installed. Installation Workwalls from right to left.



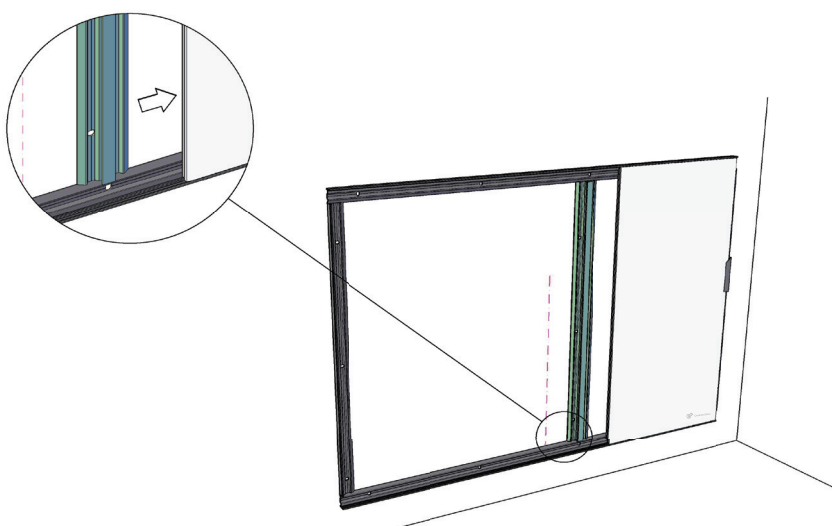
2. Place the first panel (with logo) into position and hold the panel into position with a temporary piece of cover trim 8" (200 mm). The panel must fit against the vertical end profile and the horizontal bottom profile.



INSTALLATION

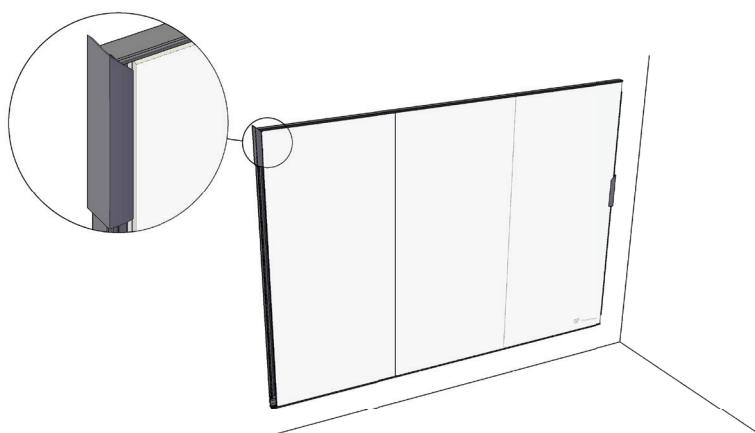
Step Six

1. Insert the H-profile (509825) into the vertical side of the panel opposite from the vertical end profile by sliding the metal extrusion into the groove on the side of the panel.
2. Depending upon the type of wall, either anchor directly through the flat part of the H-profile or predrill the wall for the appropriate type of anchor.



Step Seven

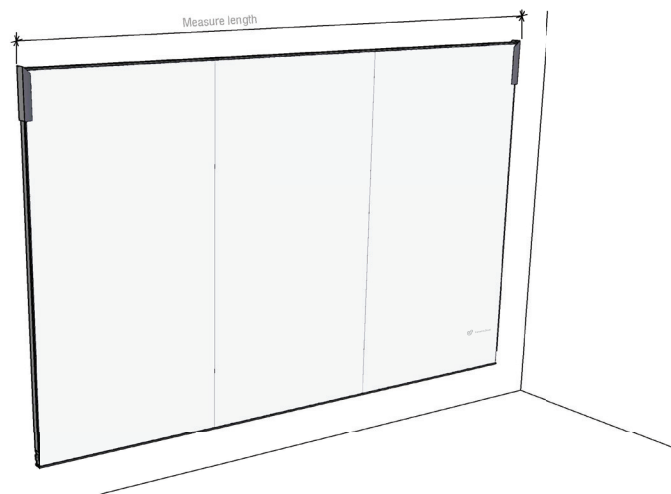
1. Repeat step 5 for the remaining panels.
2. Place the final panel into position and hold in place with a temporary piece of cover trim 8" (200 mm).



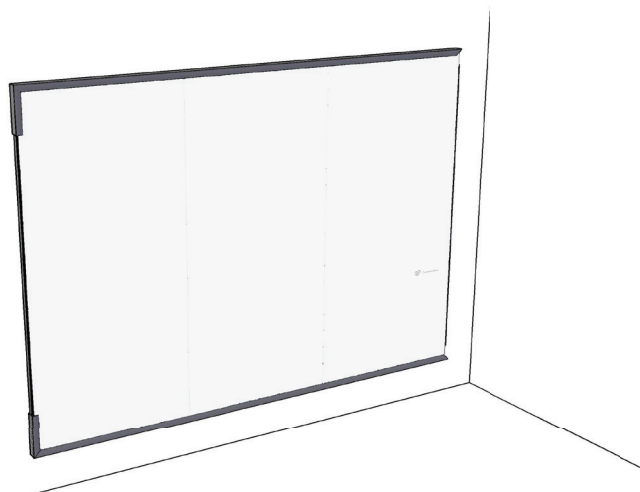
INSTALLATION

Step Eight

1. Place the temporary snap on cover trim pieces on each end of the verticals.



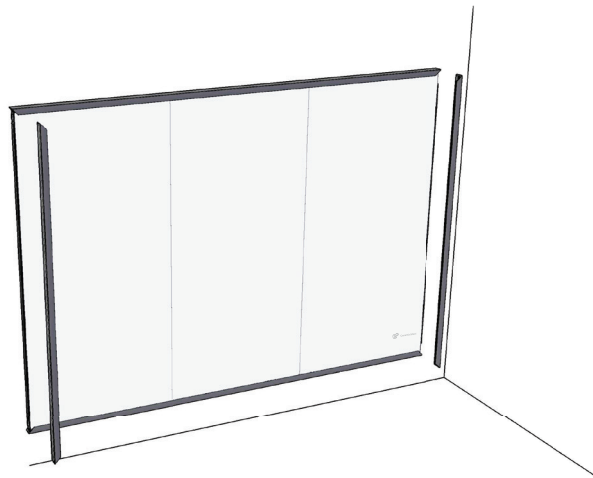
2. Measure and miter cut the top and bottom horizontal cover trim (509822).
3. Place snap on cover trim being sure to install using a piece of soft wood blocking or a rubber mallet in order to avoid damaging the exposed finish. Start the profile aligned with the bottom/top of the panel. Once the profiles are fixed they will be difficult to remove without damaging.



INSTALLATION

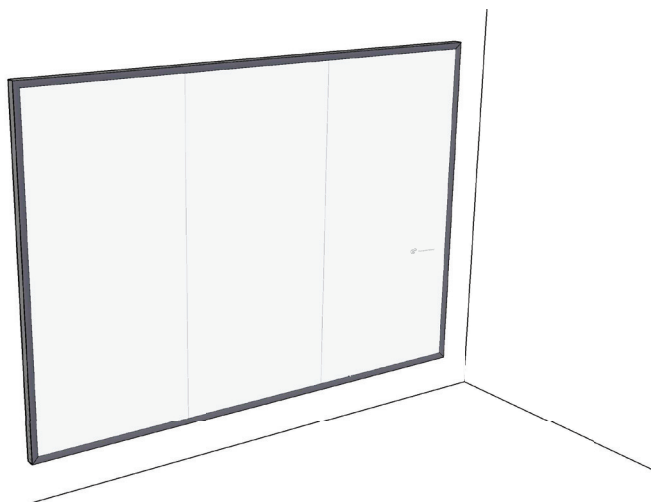
Step Nine

1. Measure and miter cut the vertical snap on cover trim (509822).
2. Place snap on cover trims being sure to install using a piece of soft wood blocking or a rubber mallet in order to avoid damaging the exposed finish. Start the profile aligned with the panel. Once the profiles are fixed they will be difficult to remove without damaging.



Step Ten

1. Installation for a³ CeramicSteel Workwall is complete.



LIMITED INTERNATIONAL WARRANTY

Surfaces and Architectural Panels have a limited warranty for 20 and 10 years, respectively, valid from the date of shipment. The limited warranty provides that the products, under normal atmospheric conditions and when sealed from moisture, will not fade, stain, discolor, craze, crack, flake, corrode or delaminate from the substrate or warp for the applicable period. Please see the full PolyVision a³ CeramicSteel Surfaces and Architectural Panels: Limited International Warranty for specific details, applicability and limitations.

Warranty effective 08.01.2011



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