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# installation instructions

## alto - frameless

# safety requirements

## alto - frameless - 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.

	<b>⚠ CAUTION!</b> CRUSH HAZARD. Failure to properly secure board could result in personal injury.
	<b>⚠ ATTENTION!</b> RISQUE D'ÉCRASEMENT. Ne pas attacher la planche de manière sûre pourrait entraîner des blessures personnelles.
<b>SAFETY INSTRUCTIONS</b>	
Read all assembly direction 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 the manufacturer. The building owner or designated agent is responsible for verifying that the installation is in compliance with all local codes and regulations.	
<b>INSTRUCTIONS DE SÉCURITÉ</b>	
Lisez l'ensemble des instructions d'assemblage avant de démarrer l'installation. La construction des bâtiment 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 le fabricant. Le propriétaire du bâtiment ou l'agent désigné a la responsabilité de vérifier que l'installation est conforme a l'ensemble des codes et réglementations locaux.	

## 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 3.

## Minimum Required Wall Construction

### Drywall with metal studs:

- Must be at least 0.6 mm (.02") thick Metal stud 48.8 mm x 50 mm (1.92" x 1.97")
- Studs on maximum 600 mm (24") centers
- Must be at least 2 x 12,5 mm (.49") Type X gypsum drywall
- 35 mm (1.34") drywall screws on 250 mm (12") centers

### Drywall with wood studs:

- Stud grade SPF, DF-L or Hem-Fir 1.5" x 3.5"
- Studs on 24" centers
- Must be atleast 5/8" thick Type X gypsum drywall
- #6 x 1-1/4" drywall screws on 12" centers

# handling & storing of panels

## Handling

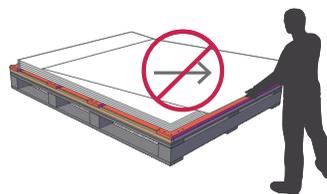
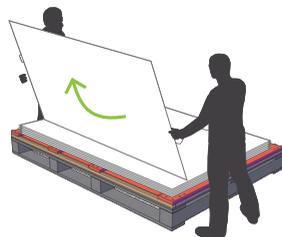
- When Polyvision panels are shipped, they are protected by craft paper or a self-adhesive transparent polyethylene film. Keep panels in the original package until installation.
- Handle with care to prevent damage.
- Never slide panels off the stack during handling. Panels should always be lifted and moved in a vertical position.
- Never place a Polyvision 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).
- 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 panel 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.
- 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](http://polyvision.com).

Product	Weight (kg/lb)/panel
alto - frameless 1185	25 kg / 55.1 lb
alto - frameless 1830	28 kg / 61.73 lb
alto - frameless 2420	37 kg / 81.57 lb



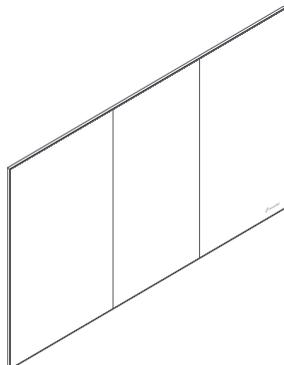
# required materials & equipment

## Electrical Equipment

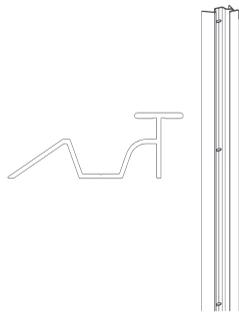
- Drill
- #2 Bit
- Glass suction cup lifters (2)
- Pliers
- Pencil
- Level or laser
- 2 or 3-step ladder
- Tape measure

## Materials Provided

NOTE: Items are not drawn to scale. Quantity of wall anchors and screws will vary per product due to the various widths. Board size determines the quantity of anchors and screws.\*



Horizontal oriented panels or vertical oriented panels



Vertical wall brackets



Horizontal wall brackets



Anchors



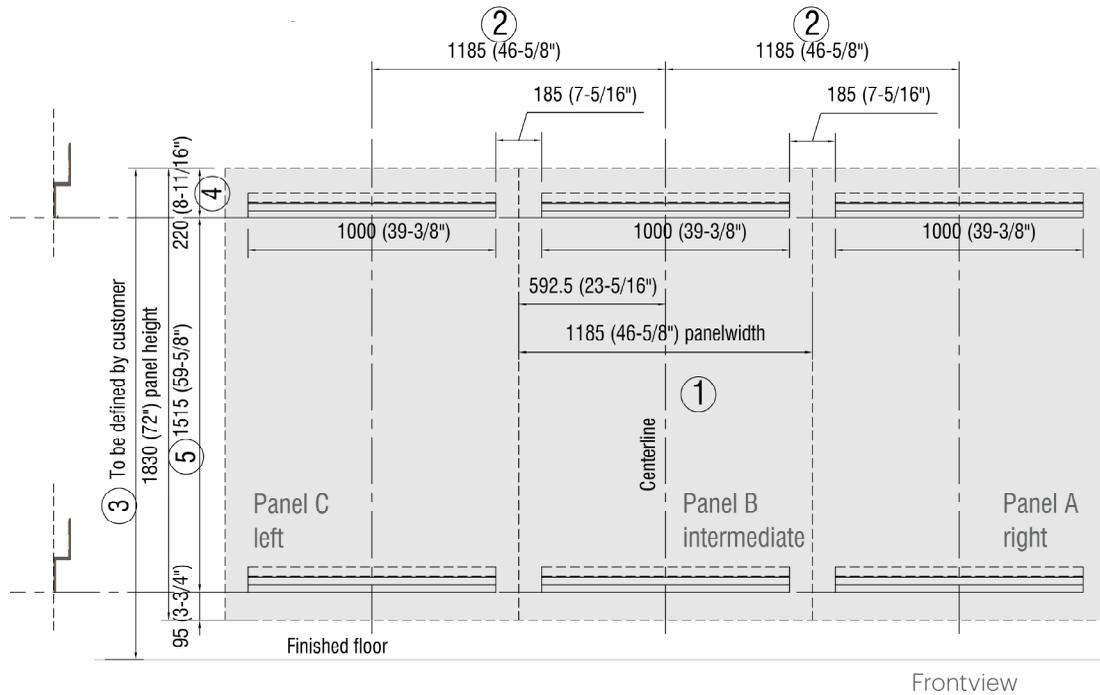
Screws

alto - frameless Panels	
Panel A	Right
Panel B	Intermediate
Panel C	Left

Product	Panel A (right)			Panel B (intermediate)			Panel C (left)		
	# Vertical Brackets	# Horizontal Brackets	# Screws/ Anchors	# Vertical Brackets	# Horizontal Brackets	# Screws/ Anchors	# Vertical Brackets	# Horizontal Brackets	# Screws/ Anchors
Vertical alto - frameless									
alto - frameless 1185	1	2	15	1	2	15	0	2	10
alto - frameless 1830	1	2	17	1	2	17	0	2	10
alto - frameless 2420	1	3	24	1	3	24	0	3	15
Horizontal alto - frameless									
alto - frameless 1830	1	2	15	1	2	15	0	2	10
alto - frameless 2420	1	2	25	1	2	25	0	2	20

# alto - frameless

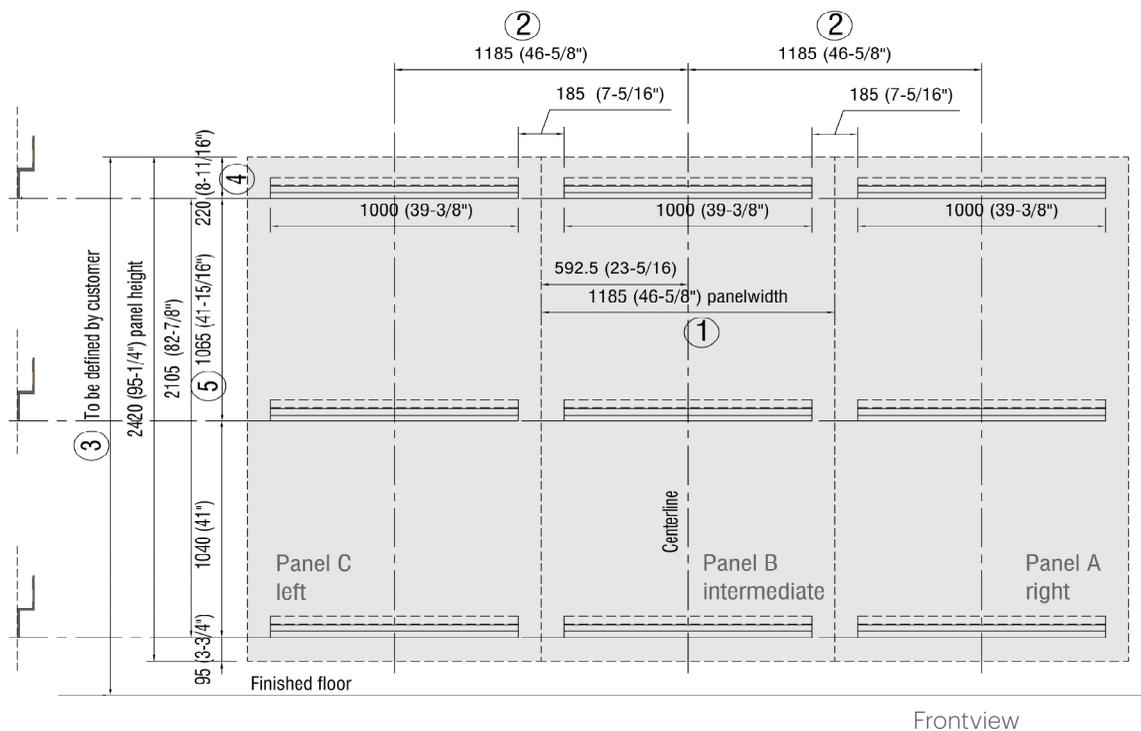
## 1830 Vertical Wall Bracket Positioning



1. Define the centerline of the alto - frameless installation
2. Define the centerline of panel A and panel C. This will be the centerline of the brackets. If uneven panels: from center of wall left and right 1185 mm (46-5/8"). If even panel: from center of wall left and right 592.5 mm (23-5/16").
3. Define the top of the wall to install from the ground level.
4. Measure 220 mm (8-11/16") down from top of predefined top of wall. This mark is the bottom of the top wall bracket
5. Measure 1515 mm (59-5/8") down from the first horizontal wall bracket to define the position of the second bracket.
6. Use the predrilled holes of the wall bracket as a template to mark all the holes. Pre-drill 6,5 mm (1/4") hole in the drywall. Insert all anchors into the holes and screw them flush. Fix all the brackets. Make sure the top brackets are perfectly aligned, leveled and fixed firmly. Repeat for all the brackets.

# alto - frameless

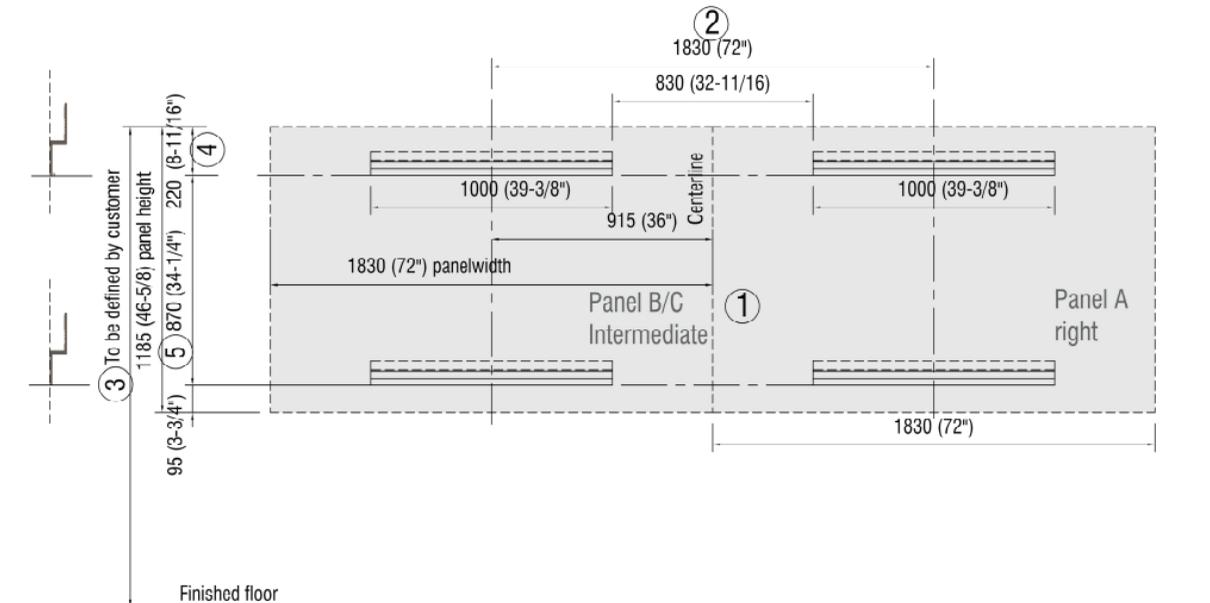
## 2420 Vertical Wall Bracket Positioning



1. Define the centerline of the alto - frameless installation
2. Define the centerline of panel A and panel C. This will be the centerline of the brackets. If uneven panels: from center of wall left and right 1185 mm (46-5/8"). If even panel: from center of wall left and right 592,5 mm (23-5/16")
3. Define the top of the wall to install from the ground level.
4. Measure 220 mm (8-11/16") down from top of predefined top of wall. This mark is the bottom of the top wall bracket
5. Measure 1065 mm (41-15/16") down from the first horizontal wall bracket to define the position of the second and 2105 mm down to the third.
6. Use the predrilled holes of the wall bracket as a template to mark all the holes. Pre-drill 6,5 mm (1/4") hole in the drywall. Insert all anchors into the holes and screw them flush. Fix all the brackets. Make sure the top brackets are perfectly aligned, leveled and fixed firmly. Repeat for all the brackets.

# alto - frameless

## 1185 Horizontal Wall Bracket Positioning

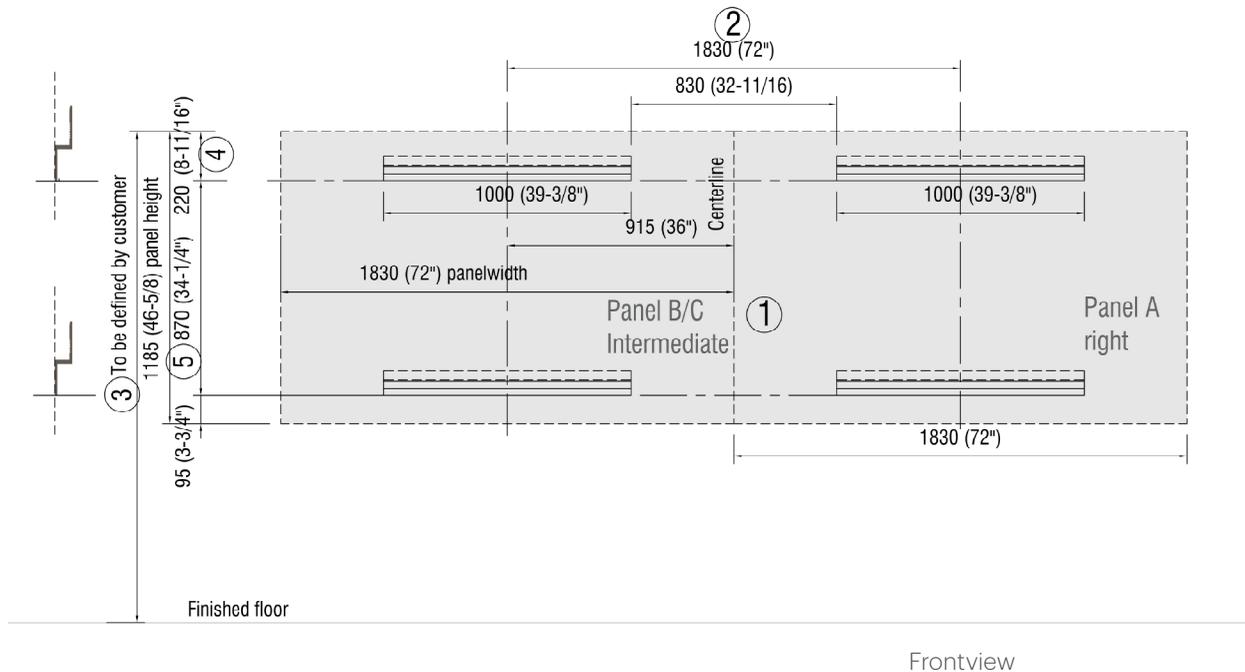


Frontview

1. Define the centerline of the alto - frameless installation
2. Define the centerline of panels . This will be the centerline of the brackets.  
Uneven amount of panels: from center of wall left and right 1220 mm (48").  
Even amount of panel: from center of wall left and right 610 mm (24")
3. Define the top of the wall to install from the ground level.
4. Measure 220 mm (8-11/16") down from top of predefined top of wall.  
This mark is the bottom of the top wall bracket.
5. Measure 870 mm (34-1/4") down from the first horizontal wall bracket to define the position of the second bracket.
6. Use the predrilled holes of the wall bracket as a template to mark all the holes.  
Pre-drill 6,5 mm (1/4") hole in the drywall. Insert all anchors into the holes and screw them flush. Fix all the brackets. Make sure the top brackets are perfectly aligned, level and fixed firmly. Repeat for all the brackets

# alto - frameless

## 1830 Horizontal Wall Bracket Positioning

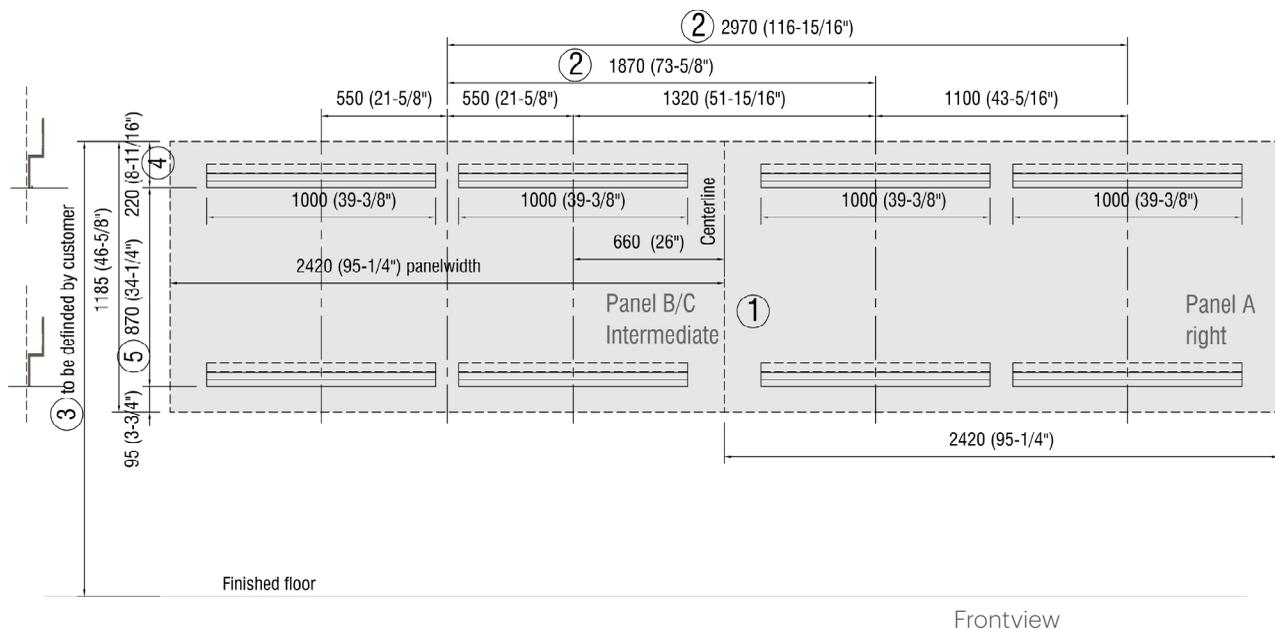


Frontview

1. Define the centerline of the alto - frameless installation
2. Define the centerline of panel A and panel C. This will be the centerline of the brackets. If uneven panels: from center of wall left and right 1830 mm (72"). If even panel: from center of wall left and right 915 mm (36")
3. Define the top of the wall to install from the ground level.
4. Measure 220 mm (8-11/16") down from top of predefined top of wall. This mark is the bottom of the top wall bracket
5. Measure 870 mm (34-1/4") down from the first horizontal wall bracket to define the position of the second bracket.
6. Use the predrilled holes of the wall bracket as a template to mark all the holes. Pre-drill 6,5 mm (1/4") hole in the drywall. Insert all anchors into the holes and screw them flush. Fix all the brackets. Make sure the top brackets are perfectly aligned, leveled and fixed firmly. Repeat for all the brackets.

# alto - frameless

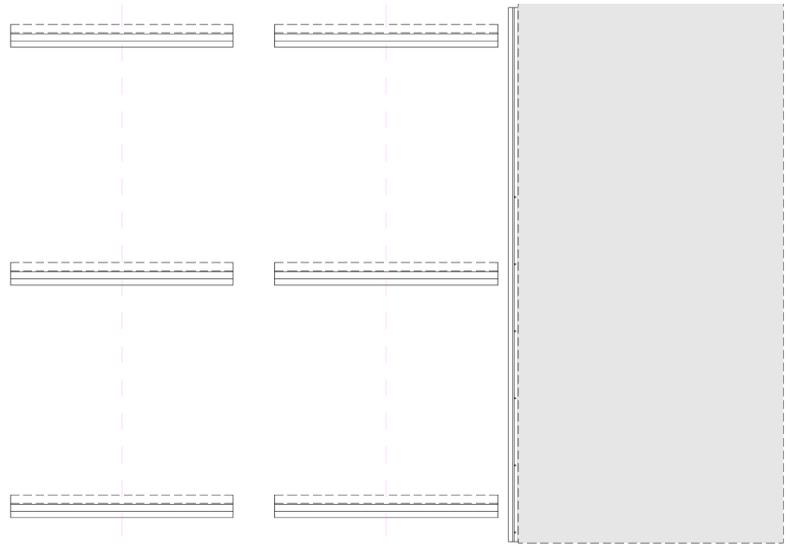
## 2420 Horizontal Wall Bracket Positioning



1. Define the centerline of the alto - frameless installation
2. Define the centerline of panel A and panel B/C. This will be the centerline of the brackets. If uneven panels: from center of wall left and right 550 mm (21-5/8") + 1320 mm (51-15/16") + 1100 mm (43-5/16"). If even panel: from center of wall left and right 660 mm (26") + 1100 mm (42-5/16").
3. Define the top of the wall to install from the ground level.
4. Measure 220 mm (8-11/16") down from top of predefined top of wall. This mark is the bottom of the top wall bracket
5. Measure 870 mm (34-1/4") down from the first horizontal wall bracket to define the position of the second bracket.
6. Use the predrilled holes of the wall bracket as a template to mark all the holes. Pre-drill 6,5 mm (1/4") hole in the drywall. Insert all anchors into the holes and screw them flush. Fix all the brackets. Make sure the top brackets are perfectly aligned, leveled and fixed firmly. Repeat for all the brackets.

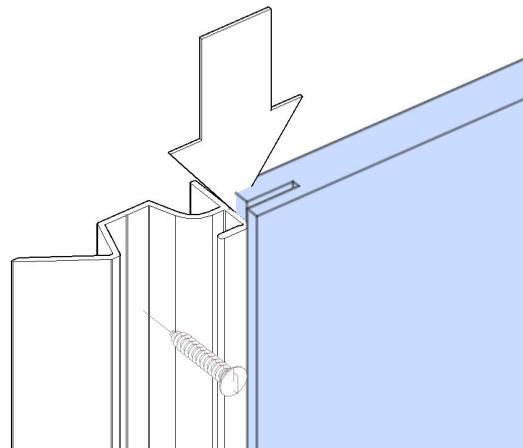
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7. Place Panel A onto the wall brackets by lifting it up, holding it against the wall above the brackets and slide it downwards in the wall brackets. Make sure the panel is perfectly level.



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8. Clean the groove before inserting the vertical profile. Insert the vertical profile in the groove starting 10 mm (3/8") from the top of the panel. Use the pre-drilled holes as a template to mark the holes. Remove the profile and pre-drill 6,5 mm (1/4") hole in the drywall. Insert anchors into the holes and screw them flush. Reinsert the vertical profile and fix the profile at the area where the profile touches the wall. Make sure the profile is fixed at least on top, middle and bottom.

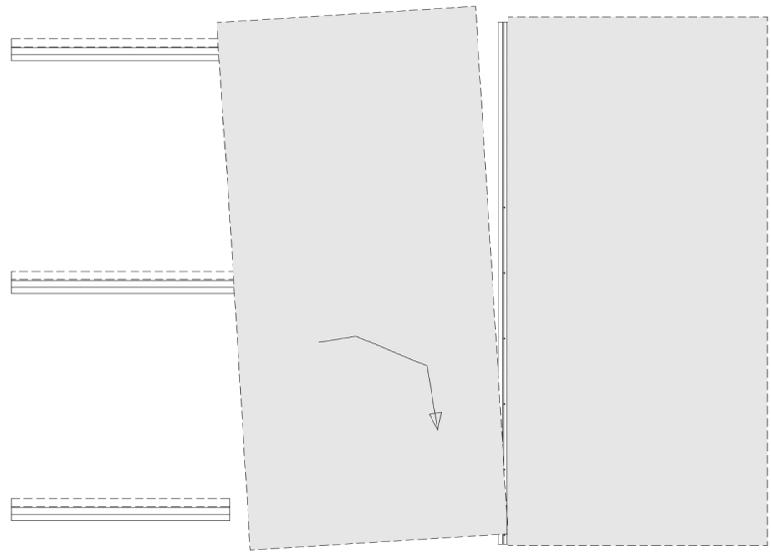


Make sure the vertical profile is inserted completely in the groove over the length of the panel.

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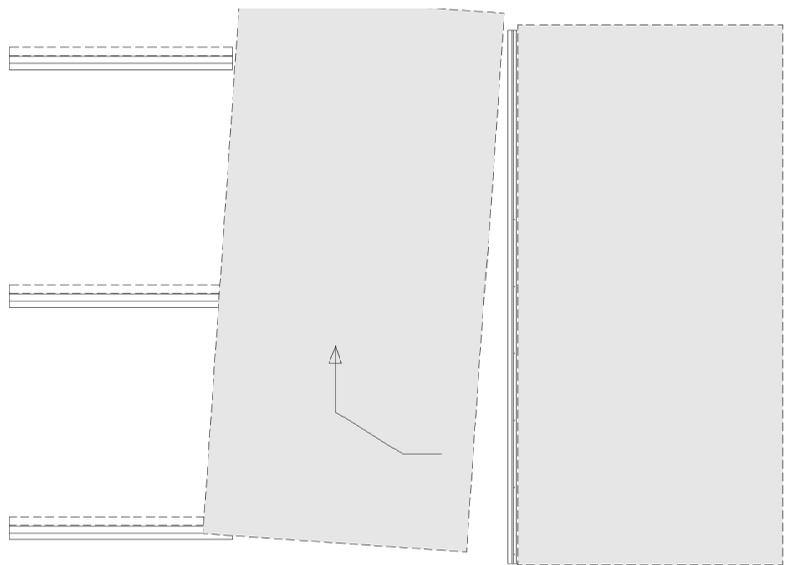
9. Place Panel B/C: carefully insert bottom of panel at an angle at the bottom corner. Let the panel slide towards the previous installed panel, make sure the panels make contact over the length of the panel and snap it down firmly onto the horizontal wall bracket.

Repeat as many times as there is a panel B. Once all B panels are installed, repeat for panel C



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Tip: To remove the panel, use opposite handling from installation.



# Collaborative Products Warranty

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## CeramicSteel Surface: Forever warranty

Polyvision warrants that all porcelain-enameled surfaces and/or products made with CeramicSteel will retain its writing and erasing qualities and maintain its gloss variance and color consistency for the life of the building or for as long as the product is in use, whichever comes first.

## Panel Construction and Mobile: 10 year limited warranty

Polyvision warrants that our panels, under normal atmospheric conditions and when sealed from moisture, will not delaminate from the substrate or warp for a period of 10 years. Polyvision warrants that our Mobile products, when used under normal conditions, will perform as intended for a period of 10 years

## Accessories: 2 year limited warranty

Polyvision warrants that our accessories, including but not limited to Collaborative ToolBar and round magnetic eraser, when used under normal conditions will perform as intended for a period of 2 years. Consumables like markers and chalk sticks are not covered by the Accessories warranty

## Alternative Materials: Limited Warranty

Polyvision warrants that our glass products, including but not limited to glassboards, when used under normal conditions will perform as intended for a period of 5 years. Manufacturing defects are warranted for a period of 5 years. Polyvision warrants that our tackable products, including but not limited to Tac, when used under normal conditions will perform as intended for a period of 2 years. Tackable products are warranted under the conditional terms of interior use only.

Should any failure to conform to this warranty become apparent, then, upon written notice from the customer, Polyvision, at its option, will correct such nonconformity by repair or replacement. Correction in the manner provided above shall constitute a fulfillment of all liabilities of Polyvision with respect to the quality of the CeramicSteel. The warranty is applicable only under normal usage and maintenance and does not cover defects caused by improper handling, vandalism or abuse, or arising from failure to follow Polyvision's instructions and recommendations for maintenance.

The warranty is voided if any modifications are made to the products by the customer or other trades with or without Polyvision's written consent or prior knowledge. The warranty does not include the cost of removal or reinstallation. This warranty is effective as of July 12, 2019, and supersedes the terms and conditions of all prior surface warranties issued to the customer by Polyvision.

This limited warranty is the sole remedy for product defects and no other express or implied warranty is provided, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. Polyvision shall not be liable for consequential or incidental damages arising from any product defect.

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