Installation instructions for Altro Tegulis™ wall cladding

updated 03/26/2026

Read all instructions before beginning the installation.

Altro Tegulis has achieved ICC ES certification.
For more information scan QR code.

Limitations

Altro Tegulis panels can be applied to most surfaces. They should however, not be installed near a heat source such as, steam kettles, pizza ovens, cooking ranges, steam rooms, etc., or where exposed flame or severe heat could cause distortion of the panel. Altro Tegulis should not be exposed to temperatures above 140° F (60° C).

Storage and handling

All Altro materials, panels, adhesives, sealants and all accessories must be stored between 68°F (20°C) – 80°F (27°C) and acclimated to the room which they will be used in at least 24 hours before the installation is to take place. Altro Tegulis panels must be stored on a level flat surface above the ground (risk of condensation on the panels if stored on damp surfaces). Standing the panels against a wall on there side or on uneven surfaces can distort or damage the edges of the panels.

Suitable substrates

Note: Walls must be straight to within 1/8” over 6 feet.

- Drywall
- Cement board
- Underlayment-grade plywood
- MDF panels that meet local building codes
- Existing ceramic tiles that are securely bonded (missing or loose tiles must be removed and the appropriate patching compound must be used to fill the void such as a moisture-resistant type)

All substrates must be smooth, sound, primed and dust-free.

Required tools

- Level(s)
- Saw(s) with fine tooth blade(s)
- Hole saw
- Jig saw
- Small caulk gun
- Low-speed mixing drill and epoxy mixing paddle
- Tape measure and pencil
- File(s) to remove sharp edges
- Trowel
- Three-wheeled laminate style hand roller
- Antistatic wipes or isopropyl alchol (for cleaning)

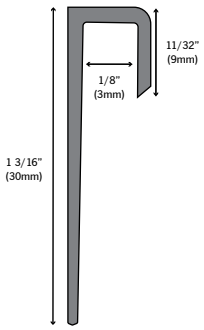
Wall substrate prep

All surfaces must be smooth, sound, dry, and free of contamination. Check walls for flatness especially at seam location(s), make sure seam area is 100% flat to ensure proper fitting for a successful installation. GWB, joint compound, and other porous substrates must be primed and allowed to dry. Existing wall tile must be cleaned with TSP (trisodium phosphate) or equivalent to remove soap scum and contaminates, rinsed with clean water and allowed to dry. Do not use solvents to clean substrate as this could cause bonding failure. Any loose tiles should be fixed or made sound.

Optional installation accessories

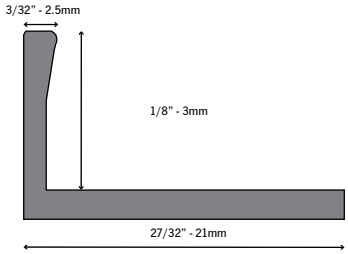
ALTWF02

Aluminum edge trim / cap strip.



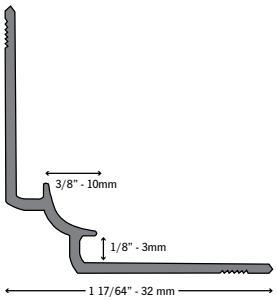
ALTW01

Aluminum edge finishing trim.



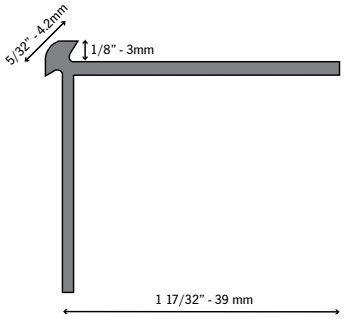
ALTW04

Aluminum internal corner trim.



ALTW05

Aluminum external corner trim.



Adhesives

Altro W157

Water-based acrylic adhesive is suitable for surfaces in dry, climate controlled areas and may only be used with absorbent surfaces.

Altro W39

Two-part polyurethane adhesive suitable for wet areas and for all absorbent and non-absorbent surfaces.

Altro Sanitary Sealant UC

Altro Sanitary Sealant UC is low-odor, low-VOC, multipurpose, one component sealant/adhesive that (neutral) cures to a durable elastic rubber silicone that has been especially formulated for all types of sanitary applications and rooms with high humidity such as bathrooms, kitchens, as well as cold storage cells. When used as an adhesive to adhere the Tegulis to the substrate, the Sanitary Sealant UC must be applied in a 12” grid pattern with an X in each box.

Recommend trowels

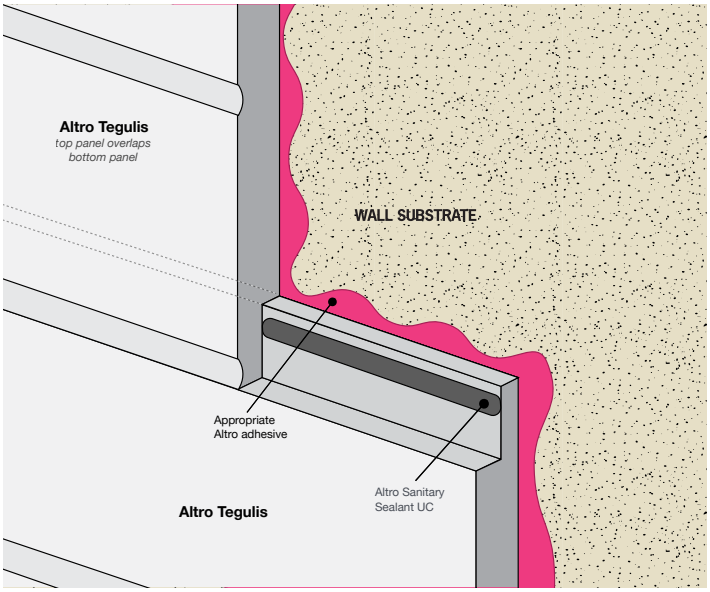
Only use approved adhesives and trowels recommended by Altro. Consult adhesive label for additional information. PRB 1/8” (3mm) square notch trowel is recommended for most applications. MLN 3/16” (5mm) square notch trowel is required when installing over existing wall tile.

Substrate	Altro W39	Altro W157	Sanitary Sealant UC
Drywall*	✓	✓	✓
Plywood	✓	✓	✓
Metal	✓	X	✓
Ceramic tiles	✓	X	X
Plaster	✓	✓	✓
Concrete	✓	✓	✓

*Drywall and joint compound must be primed.
**Altro W157 must not be used for bonding to moisture resistant substrates

Half-lap joining method

Note: Altro Tegulis half-lap panels are suitable for both wet and dry environments. Altro W39 must be utilized in wet environments regardless of the substrate.



For wet areas only: Measure the inside corner(s) from top to bottom, cut the strips of A839 for each inside corner trims and adhere them using Altro Sanitary Sealant UC. Prior to installing the Altro Tegulis panels, apply a bead of Altro Sanitary Sealant UC to the internal corner of the previously installed A839 trims.

Note: The use of A839 is not to be installed when using ALTW04 aluminum internal corner trim.

Tegulis half-lap

Always plan the panel layout before beginning installation and minimize the total number of seams wherever possible. Seams should also be avoided at penetrations.

1. For vertical installations, the half-lap seams will be located on the left and right edges of each panel, with one side being the overlap and the other the underlap. In some cases, panels may be fabricated with a half-lap on only one side or with other variations; this will be specified at the time of order and fabrication. When installing vertically, establish a level datum line at approximately eye height around the room. This datum line is used to calculate ceiling and floor measurements, locate penetrations, and keep panels plumb.

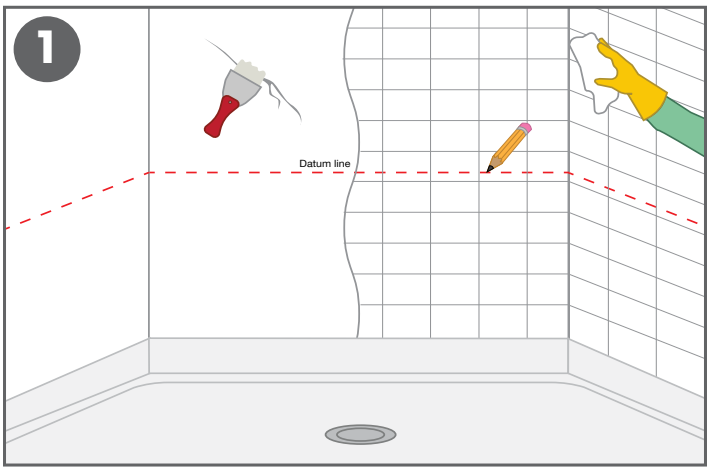
2. For horizontal installations, where half-lap seams are located at the top and bottom of the panels, it is best practice to use a cross hair laser at the panel edge or near the intended seam location to ensure the panels are installed level. Best practice is to install the lower panels first and secondly with the top row of panels.
3. Once the layout is complete and the datum line is marked on the substrate, mark the protective film on the panels with the corresponding datum line measurement. This will help align the panels with the substrate line during installation.
4. After measuring, making necessary cuts, and completing all penetrations, dry fit the panel to ensure it is level and plumb. Leave a 1/16” (2 mm) gap at perimeter edges, penetrations, and abutments to allow for panel expansion.
5. If the ceiling is not level, the panel must be scribed using dividers to accurately transfer the ceiling profile onto the panel for trimming. Leave the panel oversized to allow for final cutting. Hold the panel plumb and square, set the dividers to the distance between the wall datum line and the panel datum line, and create a clean, continuous line. Remove the panel and carefully cut along the line using the appropriate cutting tool. Always dry-fit the panel and make minor adjustments as needed.
6. Once proper fit is confirmed, place the panel face down on the worktable and clean the back using an antistatic solution or isopropyl alcohol. Using a 1/8” square-notch trowel, apply the appropriate Altro adhesive to the entire back of the panel. Apply Altro Sanitary Sealant UC to the half-lap seam only when both panels are ready to be installed; applying it too early may cause the sealant to skin over before the seam is closed.
7. Install the panel ensuring it is aligned with the pre-established datum/level line. Once in place, use a three-wheeled laminate roller to ensure 100% transfer of adhesive to the substrate.
8. When the next panel is cut to size if needed and all penetrations are completed, dry-fit each panel to confirm it is level and plumb and aligns properly to the previously installed panel. If the fit is confirmed, clean back of the panel and apply appropriate adhesive. Apply a 1/16” (2mm) bead of Altro Sanitary Sealant UC to the half lap seam location of the panel. It should be applied above the visible seam so as not to ooze out on to the surface of the panels.
9. Position the panel so it aligns with the previously installed panel and the datum line. Confirm that the seam edges are tight and that no adhesive is visible at the joint. Roll the panel in both directions using a three wheeled hand roller to ensure complete adhesive transfer to the substrate. Promptly clean any excess adhesive with isopropyl or denatured alcohol and a clean white cloth. After all panels have been installed, apply a continuous bead of Altro Sanitary Sealant UC to inside corners, abutments, penetrations, and exposed edges.

Fixture installation

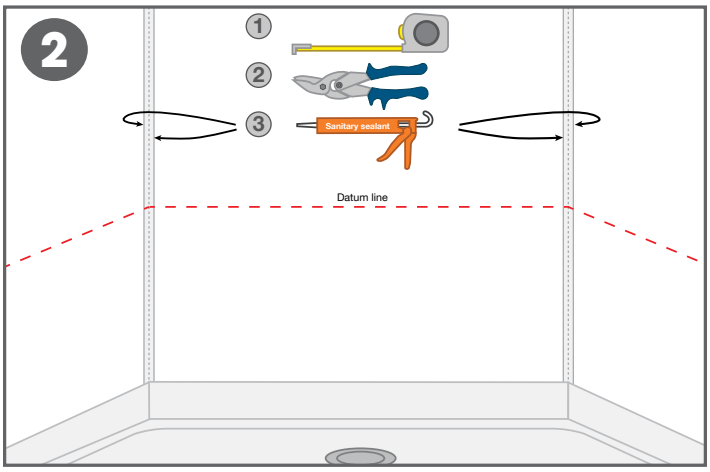
Allow adhesive to set a minimum of 24 hours or until panels are firmly bonded to wall prior to fixture installations. When installing fasteners through a finished and completed Altro Tegulis installation make sure to find adequate support with in the wall and predrill holes, be sure to leave a minimum 1/16” gap all the way around the fastener to allow for panel expansion and contraction.

Installation Instructions for Altro Tegulis wall panels

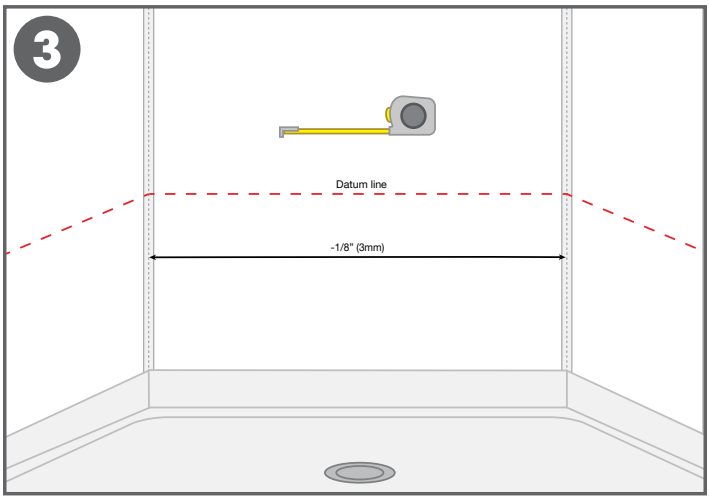
Note: Once installation is complete. Remove protective film and clean with Altro anti-static solution. Leave for 24 hours prior to being put into use.



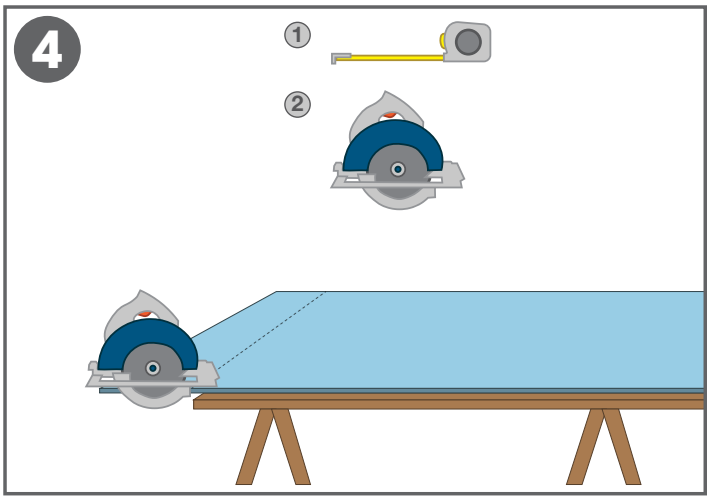
1. All surfaces must be smooth, sound, dry, and free of contamination Check walls for flatness especially at seam location(s). Existing wall tile must be cleaned with TSP (trisodium phosphate) or equivalent to remove soap scum and contaminates, rinsed with clean water and allowed to dry. Any loose tiles must be fixed and made sound. Lastly add a datum line with pencil.



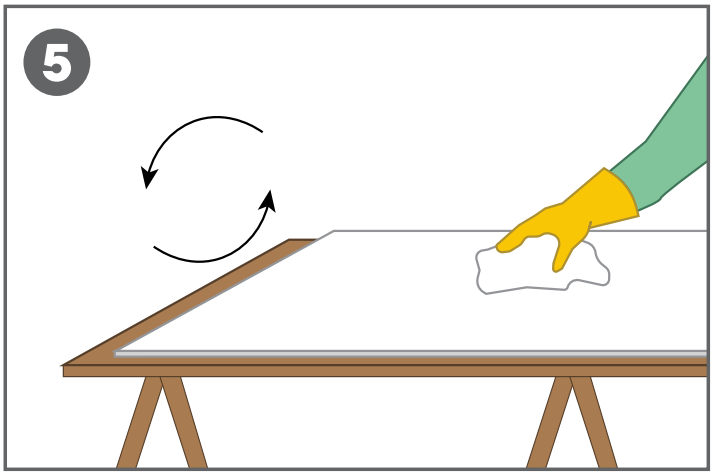
2. Measure the inside corner(s), cut the strips of A839 to length, and adhere them using Altro Sanitary Sealant UC.



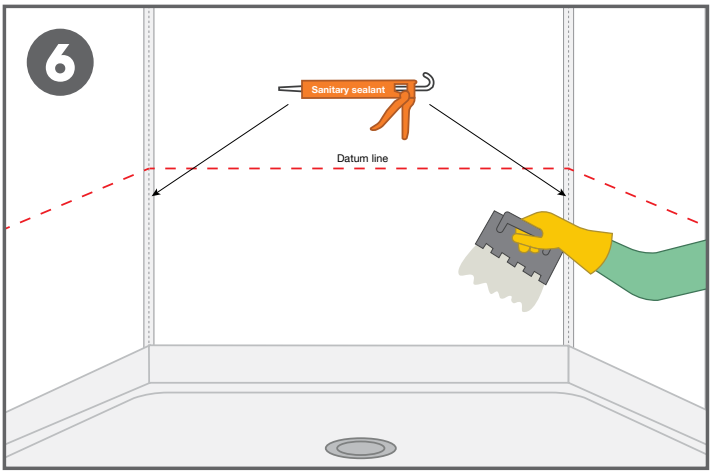
3. Measure distance between the A839 allowing for 1/8”(3mm) tolerance. If distance is 48” or less, the panel can be installed vertically. Any distance over 48” and in a wet area application will require the half-lap seam method. Orientation of the panels will need to be determined prior to the ordering process.



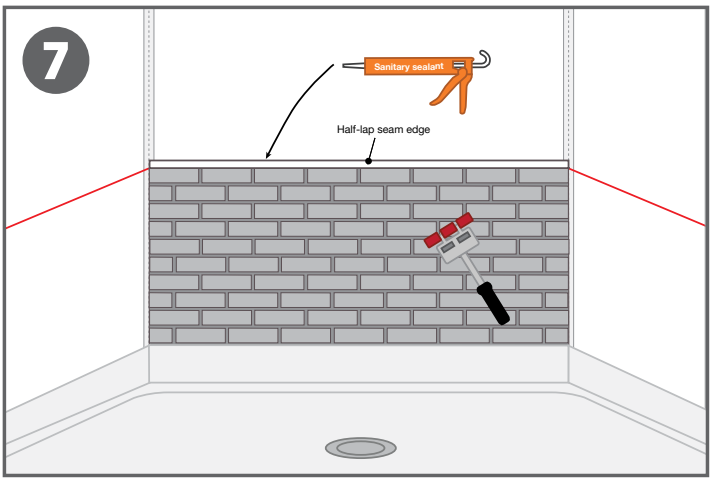
4. Measure and mark out the previously determined measurements onto panel. Make necessary cuts. Always dry fit to ensure proper fit.



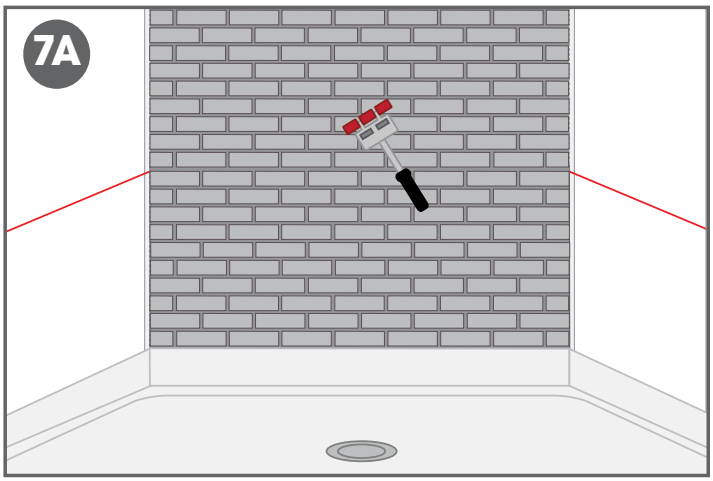
5. Clean the back of the panels with glass cleaner or similar to remove dust and contaminates.



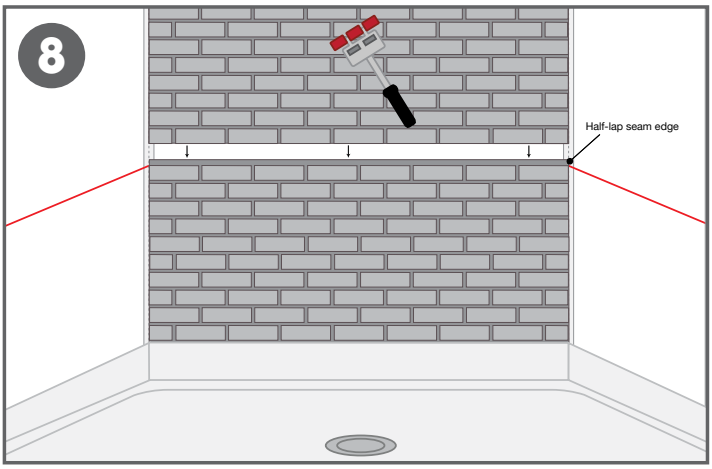
6. Depending on the environmental conditions and substrate, mixing of two-part adhesives may be necessary. Follow adhesive label and mix thoroughly. Apply adhesive to back of panel and/or to the wall substrate. Apply a bead of Altro Sanitary Sealant UC to the internal corner of the previously installed A839 trims.



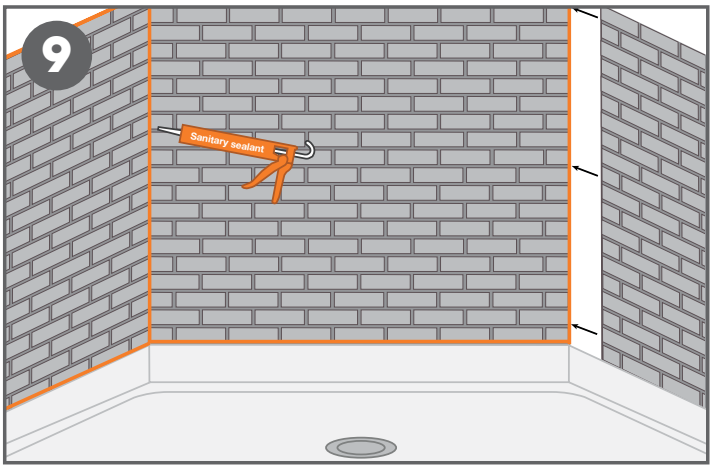
7. Install panel into proper position with correct spacing and aligned on or with datum line. Use a 3-wheeled wall roller to roll entire panel to ensure proper bond to wall substrate. Apply 1/16”(2mm) bead of Altro Sanitary Sealant UC to the half-lap seam edge. Be sure to keep it above the visible seam edge.



7A. If the distance was 48” or less the panel will be installed vertically. Install panel into the correct position. Use a 3 wheeled wall roller to roll entire panel to ensure proper bond to the substrate.

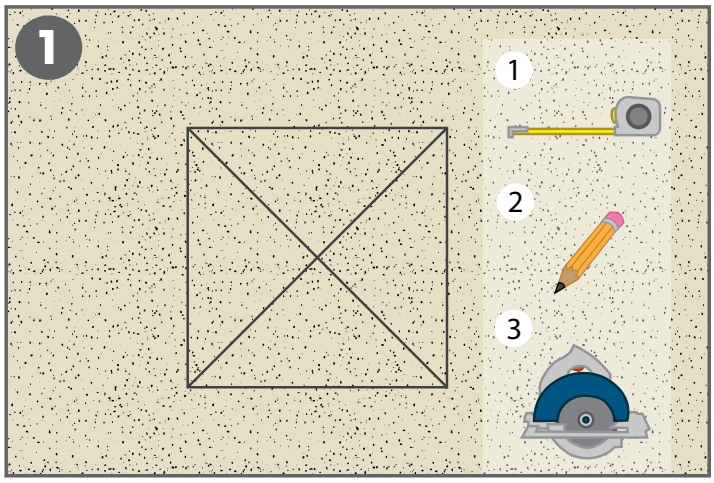


8. Install the top panel as previously instructed with correct space and properly aligned with the previously installed bottom panel. Use a 3-wheeled wall roller to roll entire panel to ensure proper bond to wall substrate.

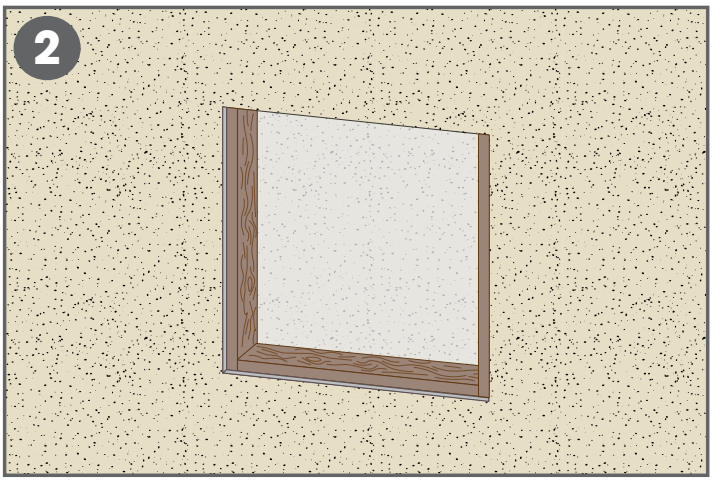


9. Side wall panels can be installed vertically which will need to be determined prior to the ordering process. This allows full panels to be installed without any seams. This is recommended only if the wall is less than 48”wide. Install adjacent panels as previously instructed. Apply Altro sanitary sealant UC as shown in drawing at inside corners, as well as top and bottom of all panels to prevent moisture

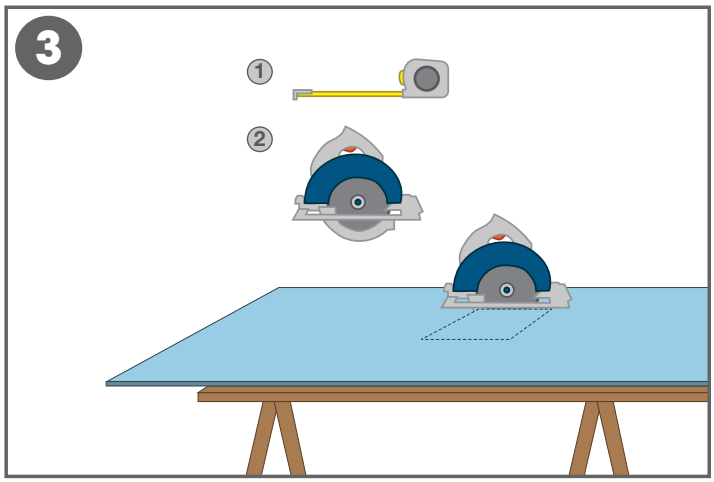
Overlap installation for Altro Whiterock™ Recess Shelf A900 with Altro Tegulis



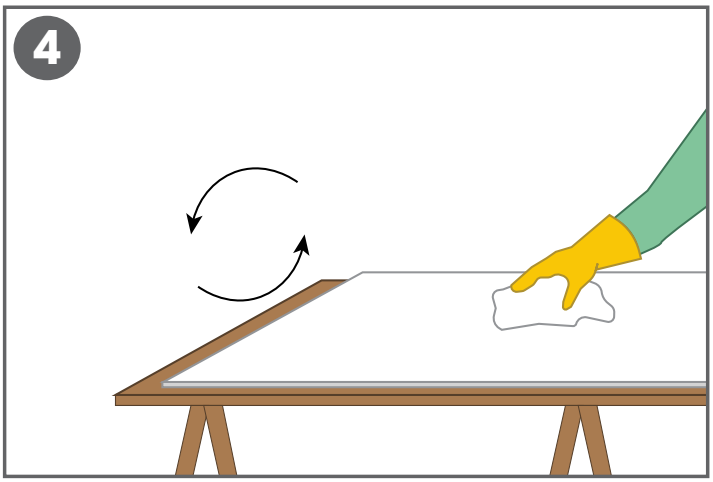
1. Use datum line or similar to determine location on wall substrate for placement of the Altro Whiterock Recessed Shelf A900. Measure, mark, and cut wall substrate accordingly.



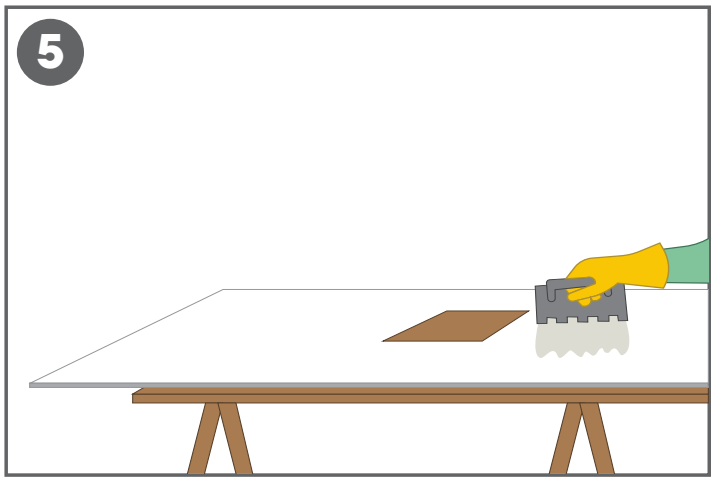
2. There must be adequate support within the wall substrate to hold the Altro Whiterock Recessed Shelf A900 and weight of its contents.



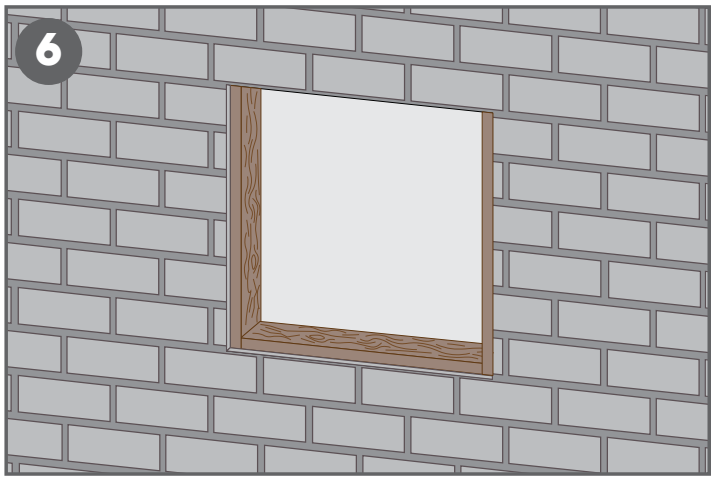
3. Transfer the measurements to the Altro Tegulis panel and cut the opening, which will be approximately 10 1/8” x 10 1/8” for the recessed body to fit into the cut out with ease.



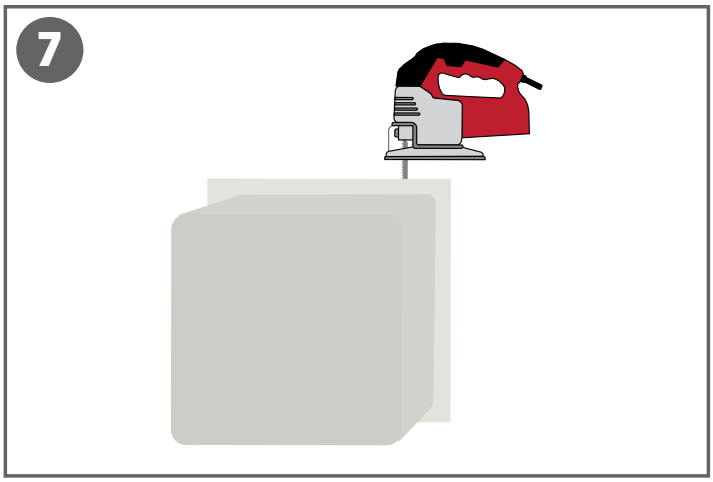
4. Turn the Altro Tegulis panel over and clean the back with isopropyl alcohol or similar.



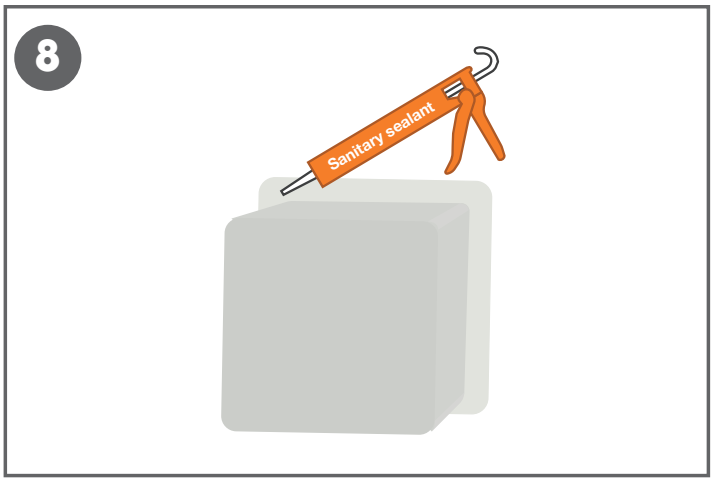
5. Apply Altro W39 adhesive with appropriate trowel.



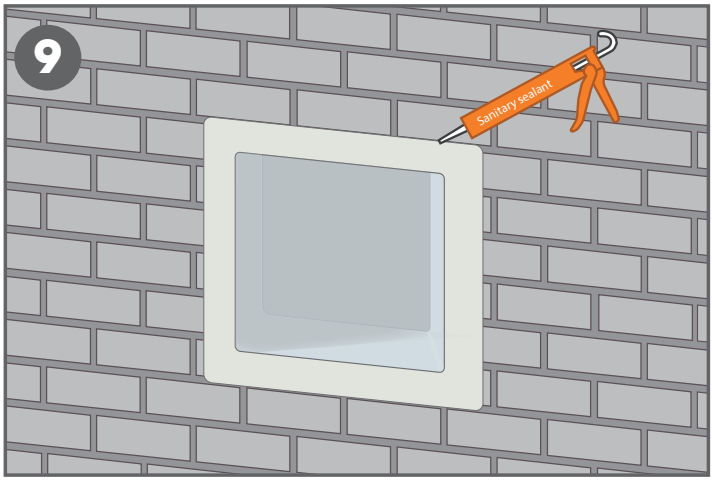
6. Install the panel per the Altro Tegulis installation guide. Be sure to use a wall roller over entire panel to ensure a proper adhesive bond to the substrate.



7. The Altro Whiterock Recessed Shelf A900 outer flanged can be trimmed if desired.

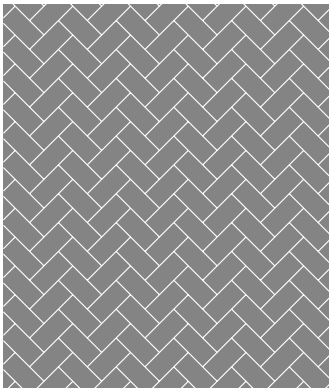


8. Apply Altro Sanitary Sealant UC to the back side of the flange. Install the recessed shelf and press/roll the flange area to ensure the adhesive bonds to the Altro Tegulis panel.



9. Once installation is complete, the edges of the Altro Whiterock Recessed Shelf A900 must be sealed with Altro Sanitary Sealant UC to prevent water ingress.

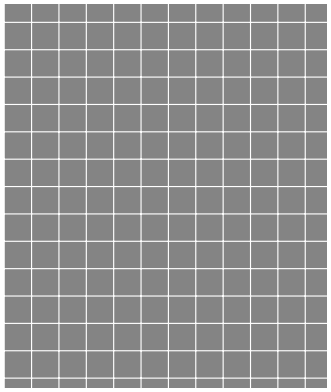
Note: The overlap installation of the Altro Whiterock Recessed Shelf A900 is not intended to be done in behavioral mental health applications and areas where the public may pick or peel at the shelf.



Herringbone

Available in the following joining methods:

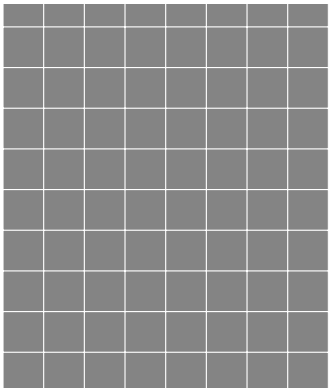
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Square 4” x 4”

Available in the following joining methods:

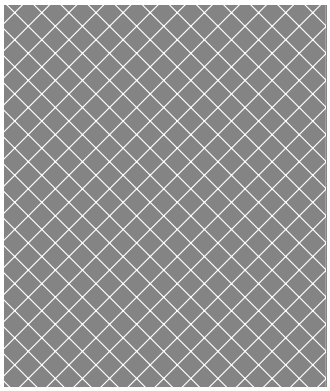
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Square 6” x 6”

Available in the following joining methods:

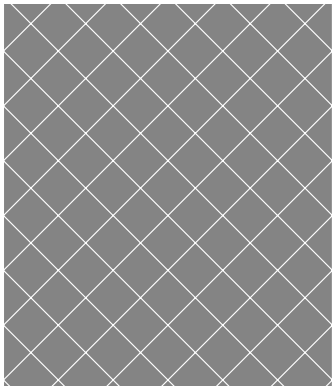
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Diamond 4” x 4”

Available in the following joining methods:

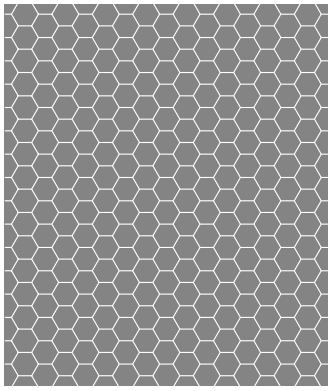
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Diamond 8” x 8”

Available in the following joining methods:

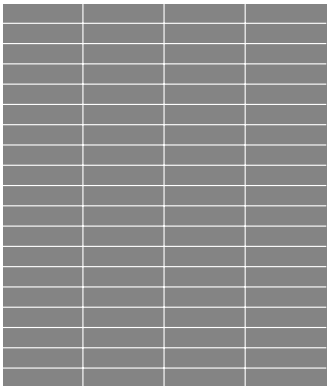
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Hexagon

Available in the following joining methods:

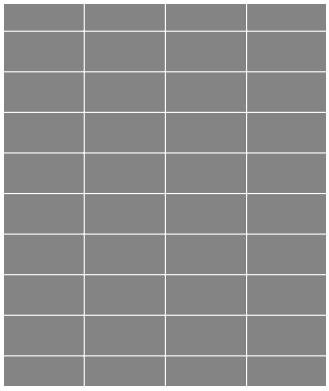
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Stacked Tile 3” x 12”

Available in the following joining methods:

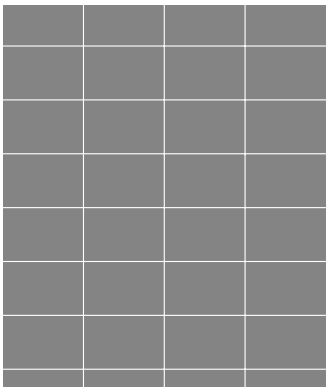
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Stacked Tile 6” x 12”

Available in the following joining methods:

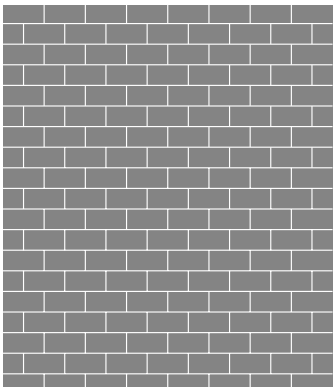
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Stacked Tile 8” x 12”

Available in the following joining methods:

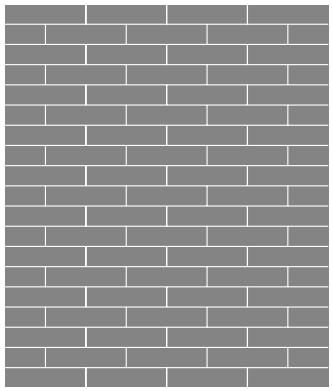
- ✓ Half-lap concealed 💧
- ✗ Half-lap visible 💧
- ✓ Straight-edge*



Subway Tile 3” x 6”

Available in the following joining methods:

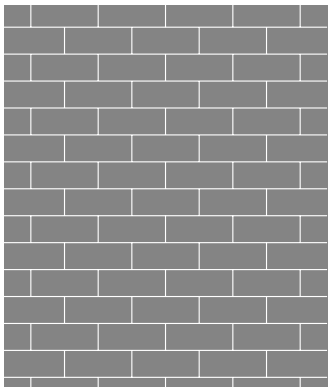
- ✓ Half-lap concealed 💧
  Horizontal axis only
- ✓ Half-lap visible 💧
  Vertical axis only
- ✓ Straight-edge*



Subway Tile 3” x 12”

Available in the following joining methods:

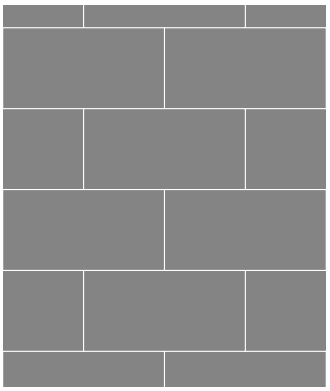
- ✓ Half-lap concealed 💧
  Horizontal axis only
- ✓ Half-lap visible 💧
  Vertical axis only
- ✓ Straight-edge*



Subway Tile 4” x 10”

Available in the following joining methods:

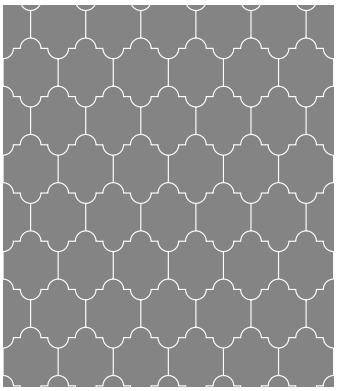
- ✓ Half-lap concealed 💧
  Horizontal axis only
- ✓ Half-lap visible 💧
  Vertical axis only
- ✓ Straight-edge*



Subway Tile 12” x 24”

Available in the following joining methods:

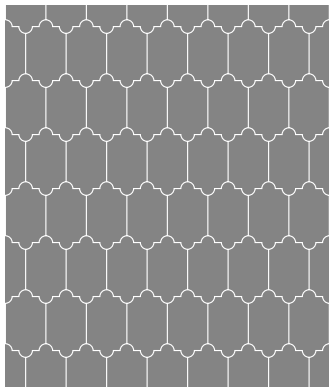
- ✓ Half-lap concealed 💧
  Horizontal axis only
- ✓ Half-lap visible 💧
  Vertical axis only
- ✓ Straight-edge*



Palermo

Available in the following joining methods:

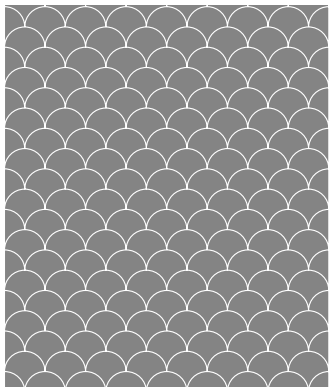
- ✗ Half-lap concealed 💧
- ✓ Half-lap visible 💧
- ✓ Straight-edge*



Cortino

Available in the following joining methods:

- ✗ Half-lap concealed 💧
- ✓ Half-lap visible 💧
- ✓ Straight-edge*

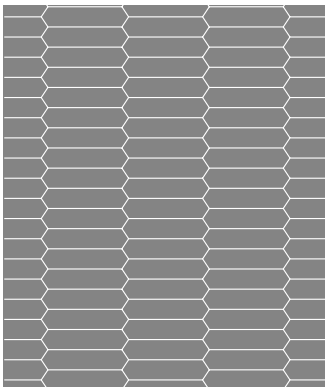


Fan

Available in the following joining methods:

- ✗ Half-lap concealed 💧
- ✓ Half-lap visible 💧
- ✓ Straight-edge*

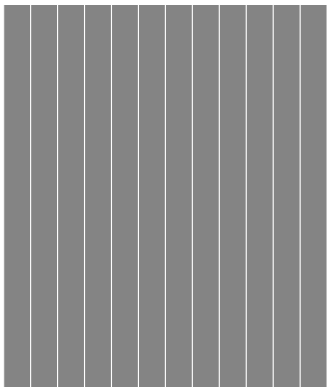
*Please note butt seam / straight-edge panels are not watertight unless combined with correct accessories and installation techniques. Altro recommends the use of half-lapped panels in all wet areas.



Picket

Available in the following joining methods:

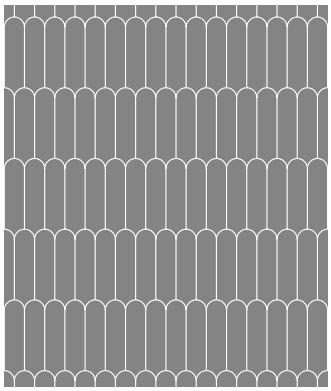
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Shiplap

Available in the following joining methods:

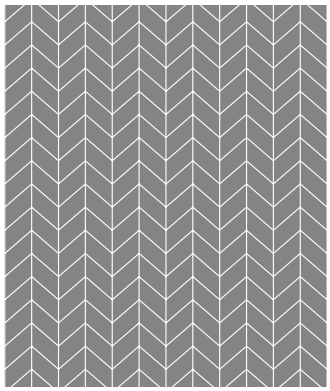
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Deco

Available in the following joining methods:

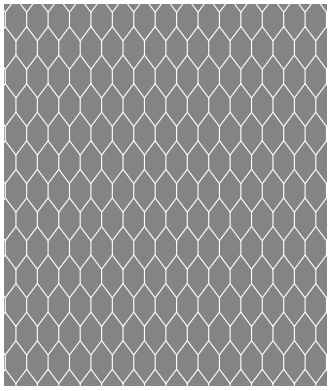
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Chevron

Available in the following joining methods:

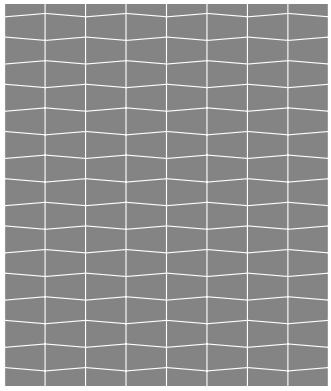
- ✓ Half-lap concealed
  Vertical axis only
- ✗ Half-lap visible
- ✓ Straight-edge*



Scale

Available in the following joining methods:

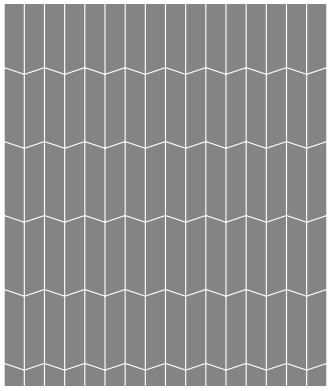
- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*



Trapezoid

Available in the following joining methods:

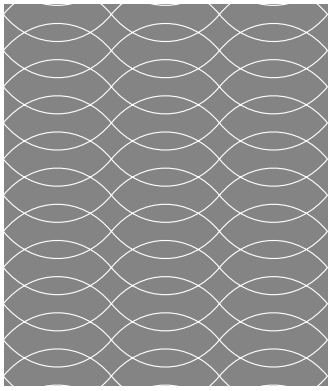
- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*



Accordion

Available in the following joining methods:

- ✓ Half-lap concealed
- ✗ Half-lap visible
- ✓ Straight-edge*

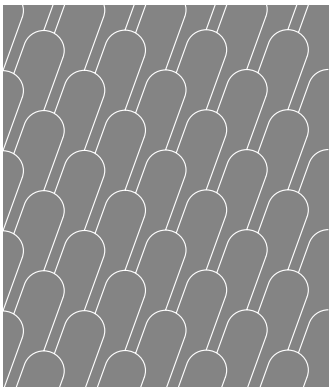


Surfboard

Available in the following joining methods:

- ✗ Half-lap concealed
- ✓ Half-lap visible
- ✓ Straight-edge*

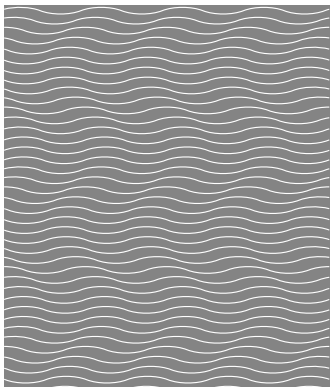
*Please note butt seam / straight-edge panels are not watertight unless combined with correct accessories and installation techniques. Altro recommends the use of half-lapped panels in all wet areas.



Speakeasy

Available in the following joining methods:

- Half-lap concealed
- Half-lap visible
- Straight-edge*



Waves

Available in the following joining methods:

- Half-lap concealed
- Half-lap visible
- Straight-edge*