

Installing Forbo Marmoleum Cinch LOC SEAL

- Always refer to and follow the recommendations in **Forbo's General Installation Guidelines** prior to installing Marmoleum Cinch LOC SEAL.
- Always refer to and follow the recommendations in **Forbo's Substrate Evaluation and Preparation Guidelines** prior to installing Marmoleum Cinch LOC SEAL.
- Always refer to and follow the recommendations in **Forbo's "Caring for Marmoleum at Home" Floor Care Guidelines** for best cleaning and maintenance practices with Marmoleum Cinch LOC SEAL.
- Beginning the installation is an implied acceptance of site conditions and liability for any failure directly related to inadequate site conditions becomes the responsibility of the installer and/or flooring contractor.
- Store Marmoleum Cinch LOC SEAL cartons unopened.
- Use material from the same batch/dye lot.
- Forbo does NOT recommend the application of adhesive tape on Marmoleum. Adhesive tape may cause damage to the factory coating of resilient flooring products. When using floor protection materials, tape the seams of the floor protection together and secure the floor protection by weighing down in corners and against walls. DO NOT secure floor protection materials by taping them directly to the surface of resilient floor coverings.
- **DO NOT USE TAPPING BLOCKS** when installing Marmoleum Cinch LOC SEAL.
- Take pride in your work and be Professional at all times.
- For additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839 or www.forboflooringNA.com.

Installing Marmoleum Cinch LOC SEAL

Marmoleum Cinch LOC SEAL has a top layer of Marmoleum, which is made from predominantly harvestable natural raw materials and is processed according to an environmentally friendly procedure. Its main ingredient is natural linseed oil, which is mixed with wood flour, rosin and limestone. Marmoleum receives its color from ecologically responsible pigments. Pressed onto a jute fabric under high pressure, an extremely durable and environmentally friendly flooring is produced. As Marmoleum is made from natural raw materials, slight color and structural differences are possible between the production batches, samples, and the goods to be delivered.

Dimensions

Cinch LOC SEAL Panel	11.81" x 35.43" (30cm x 90cm)
Cinch LOC SEAL Square	11.81" x 11.81" (30cm x 30cm)

Structure

Total Thickness	9.8mm
Surface	2.5mm Marmoleum
Base Material	6.8mm HDF
Backing	1.0mm cork
Packaging	7 panels per carton – 20.3 ft ² (1.89 m ²) 7 squares per carton – 6.7 ft ² (0.63 m ²)

What is Ambering?

Ambering is the slight yellow hue to Marmoleum when it is first removed from the packaging. This is a natural phenomenon that happens with Marmoleum and is completely normal. Linseed oil, a natural oil extracted from flax seeds and one of the main ingredients in Marmoleum is what causes this yellow hue. This very important ingredient in Marmoleum provides several unique characteristics:

- Linseed oil, along with wood flour, makes the floor naturally antistatic, repelling dust, making Marmoleum easy to clean.
- When exposed to air and light, the linseed oil oxidizes from within the Marmoleum and continues for the life of the product. This makes the material harden over time and become more durable.

As time passes, the ambering will fade as Marmoleum is exposed to light, but its unique characteristics will not. The process may take as little as a few hours in bright sunlight, but it can take longer with artificial light. Areas that are not exposed to any light will retain the yellow hue until they are exposed to light. If an area of Marmoleum is covered for an extended period, it's possible the yellow hue will re-appear. Don't be alarmed – it will fade once again when it's exposed to light. Because this is a natural occurrence in the product, there is no set time frame for the yellow hue to fade. This is not a material defect. It's actually a sign that Marmoleum is revealing its unique and valuable characteristics! Performing floor care procedures will not inhibit the process. It's just takes a little bit of time and understanding what great benefits this process brings to Marmoleum! All colors of Marmoleum are subject to ambering, however it can be more noticeable in certain colors. Light blues, greens, greys and beiges will display a more visible yellow hue than darker colors. To discover the true color of Marmoleum, follow these few simple steps:

1. Take a piece of Marmoleum and cover one half with heavy paper, cardboard or another piece of Marmoleum.
2. Place these pieces in direct sunlight for approximately 1 hour.
3. After the time has passed, remove the cardboard or heavy material and see the visual difference first hand.

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Pre-Installation

- Areas to receive material should be clean, fully enclosed, and weather tight. The permanent HVAC should be fully operational and controlled and set at a minimum temperature of 65° F (18.3° C). If this is not possible, the areas should be acclimated and controlled by means of temporary HVAC to the service level conditions expected during occupancy. The temperature and humidity should range from 75° F $\pm$ 10° F (23.9° C $\pm$ 5.5° C) with a 50% $\pm$ 10% ambient relative humidity. These conditions **MUST** be established at least seven days prior to beginning the installation, maintained during the installation, and continued after the installation. Marmoleum Cinch LOC SEAL is designed to be used in continuously occupied spaces, and therefore service level conditions must be maintained indefinitely.
- The Marmoleum Cinch LOC SEAL cartons must be stored flat, unopened, no more than 5 cartons high. Protect all materials from freezing. Store indoors at a temperature ranging from 75° F $\pm$ 10° F (23.9° C $\pm$ 5.5° C) with a 50% $\pm$ 10% ambient relative humidity. All materials (flooring, wall base, installation accessories, underlayment, etc.) should be acclimated to these conditions for a minimum of 48 hours prior to installation.
- Tools and Materials Required:
 - Tape Measure
 - 3/8" Spacers
 - Pencil
 - Jigsaw
 - Circular Saw
 - QuietWalk Versa Underlayment or equivalent
 - 3/4" Wood Chisel (for modifying edge profile when required)*
 - Optional: Guillotine Cutter or Table Saw
- Material must always be visually inspected prior to installation. If there are any questions regarding the quality of material, contact your local Forbo representative or Forbo's Product Support & Education Services **PRIOR** to installation.

NOTE: Any costs (including labor) associated with the replacement of material that was installed with visual defects that could have been seen prior to installation are not covered under warranty.

- Marmoleum Cinch LOC SEAL can be installed on approved clean, dry, structurally sound subfloors. The subfloor **must** be flat to within 3/32" in 6' (2.0mm in 2 meters).
- **Note: Any questions relating to the use of patching or leveling compounds must be directed to the manufacturer.**
- For concrete subfloors, internal relative humidity must not exceed 75% (tested in accordance with the latest version of ASTM F 2170) and moisture vapor emissions must not exceed 5 pounds per 1,000 square feet in 24 hours (tested in accordance with the latest version of ASTM F 1869).
- All concrete subfloors and any subfloors with underfloor heating require a vapor barrier. Use QuietWalk Versa Underlayment or equivalent. Always refer to and follow the recommendations in the underlayment manufacturer's installation guidelines prior to installation.
- When using underfloor heating, Forbo only recommends installing Marmoleum Cinch LOC SEAL over systems that are heated by water (hydronic), provided the maximum surface temperature of the substrate does not exceed 85° F (29° C) under any condition of use.
- **IMPORTANT!!** An expansion gap of 3/8" (9.8mm) is required around the entire room between the flooring and the wall, including at all cabinets, columns, toe kicks, pipes, steel door frames, adjoining floors with transitions, etc. As Marmoleum Cinch LOC Seal is 3/8" (9.8mm) thick, scrap pieces may be used as a gauge for this expansion gap requirement.
- Cabinets should **not** be installed on top of Marmoleum Cinch LOC SEAL.
- Expansion joints are required for any areas longer or wider than 40' (Approx. 12.2 meters) and can be covered with a "T" shaped molding.
- Expansion joints are required in doorways connecting hallways, adjacent rooms, or closets.
- All expansion joints must be a minimum of 3/8" (9.8mm) wide.
- **NOTE:** There are a variety of moldings (such as Versa Trim, "T" moldings, reducers, quarter-round, and overlap end profiles) that can be purchased at local home improvement stores, hardware stores, or online.
- Transitions should not be screwed or nailed through Marmoleum Cinch LOC SEAL as this would inhibit the natural expansion and contraction of the material.
- Clean up any spills on the floor **immediately**.
- For additional information, contact Forbo's Product Support and Education Services.

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Installation

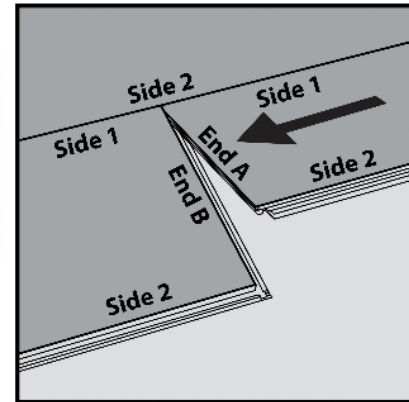
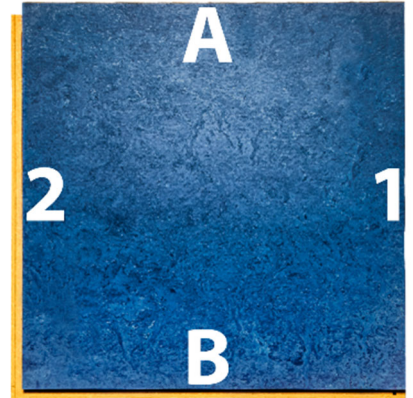
Edge Identification

Marmoleum Cinch LOC SEAL has 4 unique edges and is installed one piece at a time:

- **Sides:** Side 1 and Side 2 (opposite to each other)
- **Ends:** End A and End B (opposite to each other)
- **End B** features the **black colored locking tab**. This can be helpful for orientation.
- **Connection rules:** Side 1 ↔ Side 2 | End A ↔ End B

Layout

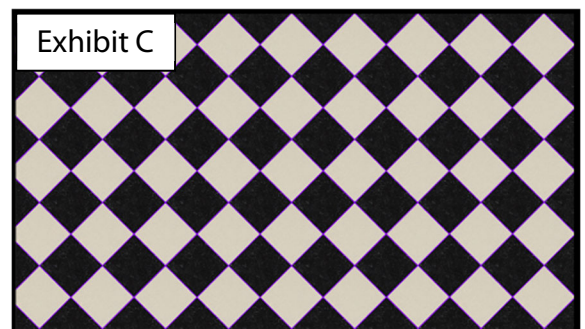
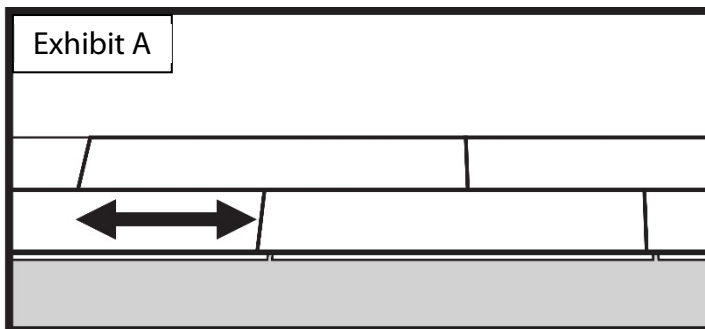
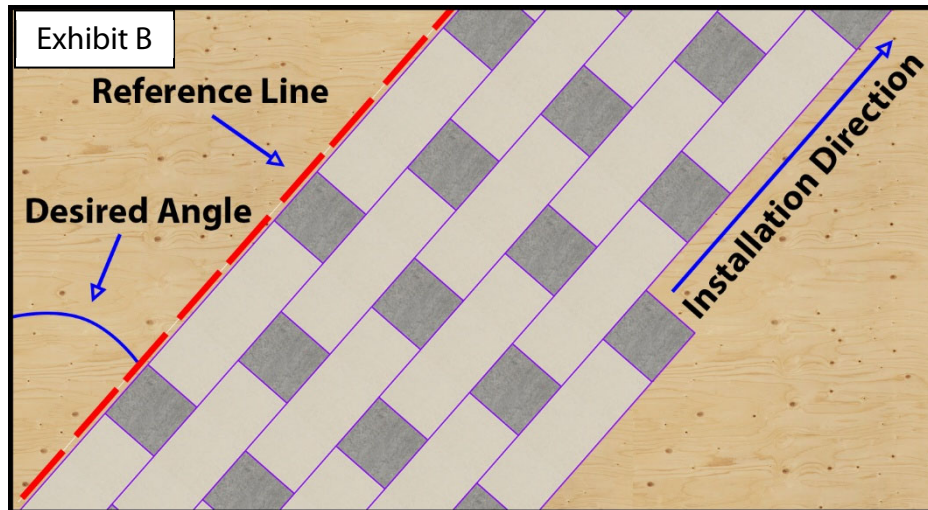
First, measure the room. The layout should be balanced and allow for the largest size cut pieces possible at walls and ending points, avoiding small pieces. In many installations, walls may not be completely straight. To ensure proper alignment of squares and/or panels, a straight reference line **must** be established for the first row.



Note: When installing Marmoleum Cinch LOC SEAL panels (1'x3'), it is required to create a minimum of a 12" (30.48 cm) offset stagger of the end joints (See Exhibit A). This stagger can also be created by mixing both panels and squares throughout the installation (See Exhibit B).

Marmoleum Cinch LOC SEAL squares (12"x 12") can be installed with all 4 corners touching. A minimum offset stagger is not required. Examples of this can be seen with checkerboard or harlequin patterns (See Exhibit C). Squares can also be offset if desired.

For harlequin or patterns installed on an angle, an accurate reference line **must** be established at the desired angle (See Exhibit B). Refer to this line during the installation to ensure the desired angle is maintained.

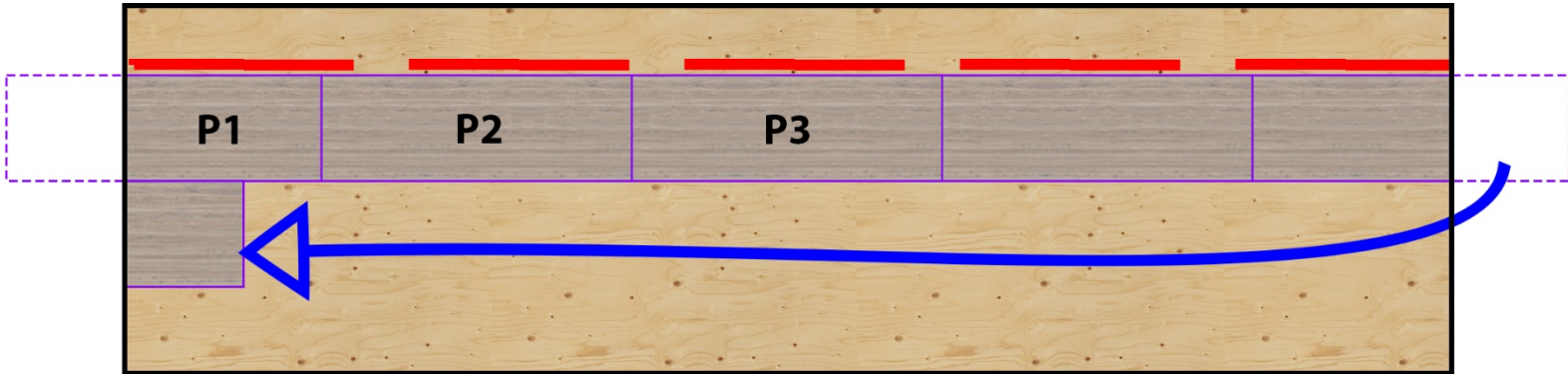
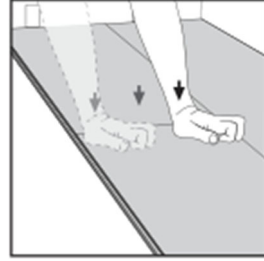


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Starting the Initial Row

The initial row must be positioned so that **Side 1** of the Marmoleum Cinch LOC SEAL is parallel to the established reference line. The flooring panel in the diagram labeled as "P1" indicates the first piece in that row.

Connect **End A** with **End B** of each piece until the row is complete. Lower the piece down and press on **End A** to seat the joint, ensuring the pieces lay flat. A "click" will be heard when the black locking tab has fully seated. Ensure that the flooring pieces are properly aligned to fit square and flush on all surfaces and edges. The cut or waste piece from each row may be used as the starting piece in the next and subsequent rows, provided it meets the required 12" minimum offset (for 1'x3' panels) or its size meets the required length for the first piece in the next row.



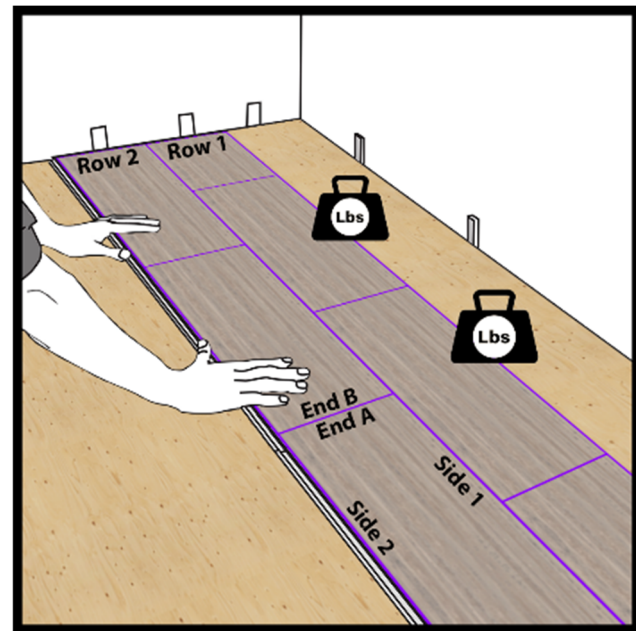
Place weights (such as unopened cartons of Marmoleum Cinch LOC SEAL) along the edge of the first row to help stabilize and maintain the position of the row on the reference line. The material must remain aligned with the reference line.

Connecting the Following Rows

Insert **Side 1** of the starting piece for the row into **Side 2** of the previously installed row at a slight angle, then lower the piece until it lies flat. For the next piece, insert **Side 1** into **Side 2** of the previous row at a slight angle, slide the piece horizontally while maintaining the angle until **End A** meets with **End B**, then lower the piece until it lies flat. Repeat these steps to complete each row.

NOTE: Ensure no debris enters the locking connection while installing, as this can prevent the connection from being made and damage may result if forced together.

IMPORTANT!! An expansion gap of 3/8" (9.8mm) is required around the entire room between the flooring and the wall, including at all cabinets, columns, toe kicks, pipes, steel door frames, adjoining floors with transitions, etc. As Marmoleum Cinch LOC SEAL is 3/8" (9.8mm) thick, scrap pieces may be used as a gauge for this expansion gap requirement.



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Connecting the Final Row

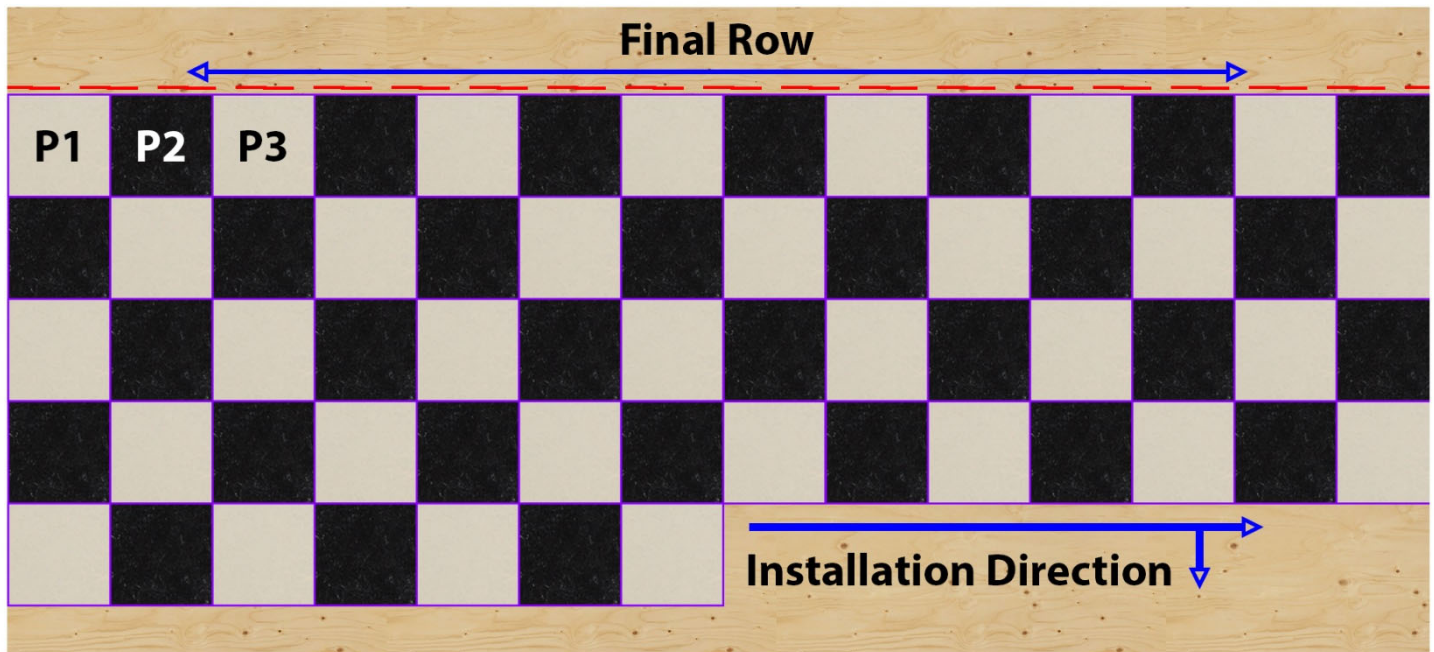
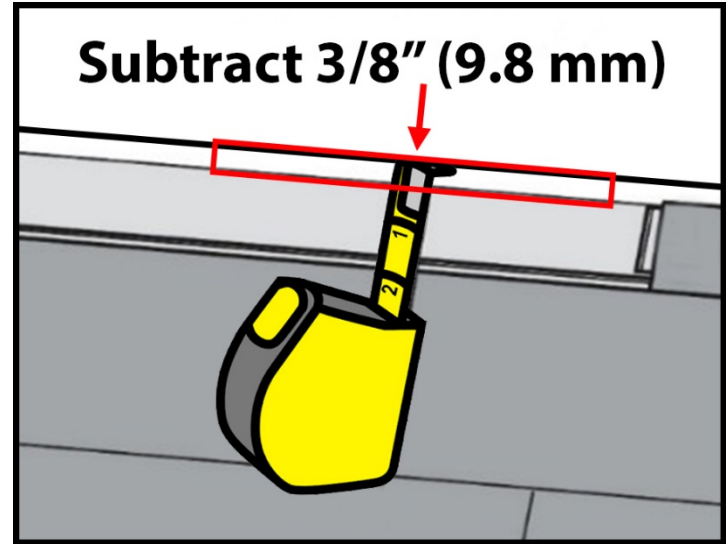
Marmoleum Cinch LOC SEAL can be connected both by placing **Side 1** into **Side 2** or by placing **Side 2** into **Side 1**. Once you have reached the final row, the Marmoleum Cinch LOC SEAL will need to be installed by placing **Side 2** into **Side 1**. End joints are connected from left to right if you are facing the wall.

Cut and fit the Marmoleum Cinch LOC SEAL in the width allowing for a 3/8" (9.8mm) gap between the flooring and the wall. To do this, measure the distance between the side of each piece and the wall, then subtract 3/8" (9.8mm) from that measurement as seen in the diagram.

After the final row is in place and the installation is complete, installation of molding, trim work (such as a quarter round), and base trim may proceed.

To disassemble the floor, gently remove the final row by lifting the wall side at a slight angle and slide the row out, carefully lifting at the end joints to uncouple the end joint connection.

NOTE: Disassembling the floor can cause damage to the locking mechanism. Any damage that may occur as a result of disconnecting is not covered under warranty.



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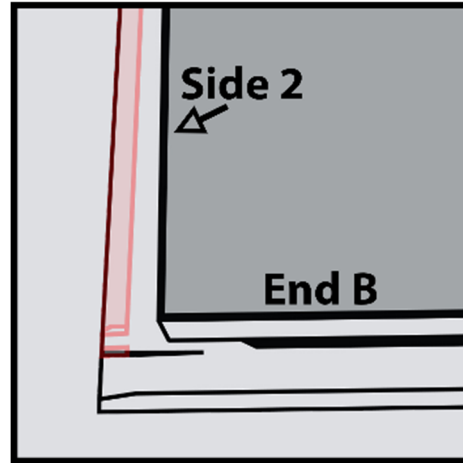
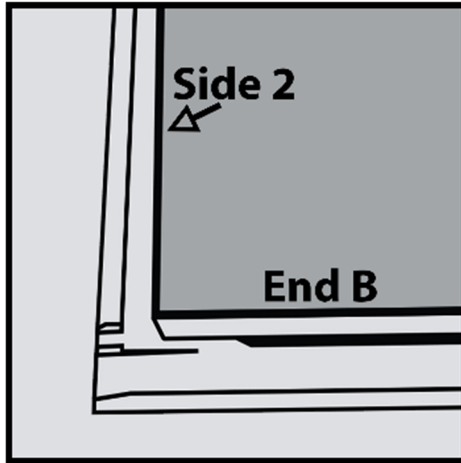
Under Cutting

During installation of Marmoleum Cinch LOC SEAL, it is common for there to be door moldings/jamb, trim work, or other objects that the flooring will need to be fit to. These areas may need to be cut to allow the Marmoleum Cinch LOC SEAL to slide under.

Undercutting allows the flooring to slide under while concealing the cut edge and maintaining the required 3/8" (9.8mm) gap. This will prevent the Marmoleum Cinch LOC SEAL from being able to connect at the necessary slight angle, and therefore, edge profile modifications will be required.

Modifying the Edge Profile

In situations where undercutting is necessary, modification of the edge profile will be required to allow the material to connect. Once made, this modification will allow **Side 1** and **Side 2** of the Marmoleum Cinch LOC SEAL to connect without the need to insert at an angle. This Modification consists of removing a small amount of material from the raised portion of the edge profile on **Side 2**.

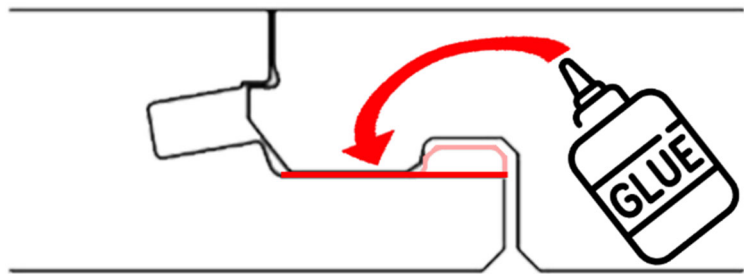


The profile can be modified by using a sharp 3/4" wood chisel. After this modification has been made, application of PVA wood glue in the connection is required.

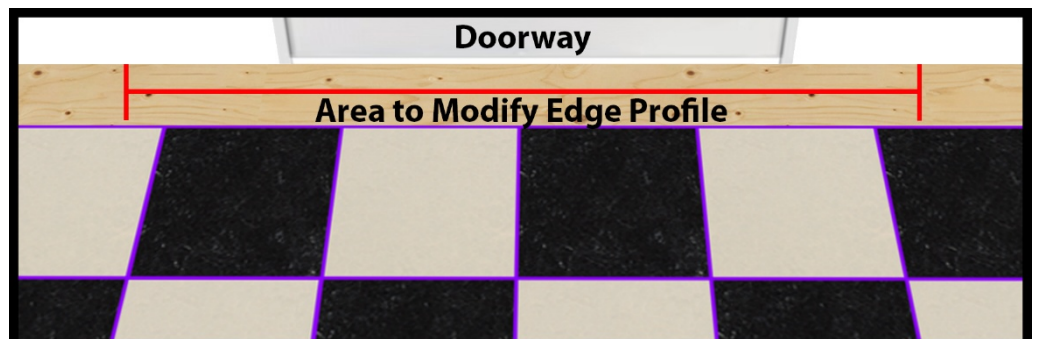


Apply enough wood glue to ensure complete glue coverage on both pieces being connected. A temporary shim or wedge placed between the wall and the flooring may be helpful to ensure the pieces stay connected until the glue has cured. Be sure to remove these shims or wedges after the glue has cured. Immediately wipe off any excessive glue from the surface with a clean damp cloth. Ensure all residue is removed, avoid over scrubbing.

Note: Urethane or construction type adhesives are not recommended for this application.



This modification is only necessary for the section of the previously installed row in the direct area where the door molding/jamb, trim work, or other object is located, not the entire row.



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Installation on Stairs

Marmoleum Cinch LOC SEAL is not recommended for installation on stairs.

Installation in Wet Areas

If a floor drain or sump pump is present, it may be an indication of water/flooding issues. **DO NOT INSTALL** Marmoleum Cinch LOC SEAL on floors where water/flooding issues are present.

All expansion spaces located in wet areas, such as areas where sinks, dishwashers, refrigerators, toilets, showers, or bathtubs are located, should be sealed with 100% mildew-resistant silicone. To seal the area, apply a thin bead of silicone where the bottom of the Marmoleum Cinch LOC SEAL and subfloor meet. **DO NOT** fill the entire expansion space with silicone.

If required after proper sealing, a trim piece can be used around bathtubs to conceal the required 3/8" gap.

Marmoleum Cinch LOC SEAL may be installed under toilets. A 3/8" gap is required around the circumference of the toilet flange. **Toilets must not inhibit or interfere with any expansion of Marmoleum Cinch LOC SEAL.** For information on proper installation of toilets, Forbo recommends always consulting with a professional licensed plumber.

Forbo's **General Installation Guidelines** contain additional information and are available for download at www.forboflooringNA.com. For additional information, contact Forbo's Product Support & Education Services at 1-800-842-7839.