

## ReNew TERRAZZO RUBBER TILE FLOOR: Installation Guide [Square Cut Glue Down Recycled Rubber Floor](#)

### GENERAL INFORMATION

- This product has been certified by SCS to meet the rigorous indoor air quality requirements of the FloorScore® certification program.
- The following pages provide guidelines; failure to follow them will void the warranty. Please read this manual thoroughly before installing Allstate Rubber products.
- This installation method and mat format must be used in environments with major shifts in temperature or humidity, or in locations where surface moisture may remain after installation, including but not limited to entryways, ice arenas and locker rooms.
- **Square Cut Product Information:**
  - o Product Dimensions: 38" x 38" = 10.02 ft<sup>2</sup> (96.5cm x 96.5cm)
  - o Variety of thicknesses available. Tolerance: +/- 0.5mm
- **Vulca-No! Square Cut Product Information:**
  - o Product dimensions: 48" x 72" = 24 ft<sup>2</sup> (121.92cm x 182.88cm)
  - o Variety of thicknesses available. Tolerance: +/- 0.5mm
- Dimension Stability all products: +/- 0.2mm

### MATERIALS STORAGE & HANDLING

#### Product Packaging

- All Allstate products are packaged on wooden pallets, covered with a plastic cozy, and secured by metal strapping.

#### Receipt of Merchandise

- It is recommended you double-check that your order is correct.
- Inspect for any damage that may have occurred during transportation.
- Identify any other possible shortcomings.
- For your protection, ensure that defective products are identified before the start of the installation. Notify your sales rep regarding any defective product immediately.



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### Receipt of Merchandise (continued)

- Allstate is not responsible for any installation costs due to a defective product being installed.
- If adhesives were exposed to freezing temperatures, place them indoors and bring them to room temperature between 18°C (57°F) and 23°C (72°F) before using.
- Read the technical data sheet and SDS for the adhesive.

### Storage

- Store the product in a dry and clean area.
- Before placing any Allstate product in storage, remove the metal pallet strapping.
- Leave the plastic cozy on during storage.
- Products stored for longer than six months may cause damage to the material, and additional acclimation will be required. It may take at least 3 weeks for acclimation. Any damage to the material resulting from extended storage time will NOT be covered under our warranty.
- Adhesives must be stored above 18°C (65°F) in a dry heated space.

## TOOLS & ACCESSORIES

### Tools and Safety Equipment

- Allstate Installation & Maintenance Guidelines – all technical information is available at: <https://www.allstaterubber.com/technical-data/>
- A two-person installation is required for large areas (one to handle materials and one to handle adhesives).
- Safety glasses, rubber gloves and boots
- Heavy-duty utility knife
- Measuring tape
- Transit level and straight edge
- Chalk snap-line
- 1/16" x 1/16" x 1/16" V- Notch Trowel
- Carpenter's Square
- Putty knife
- Masonite board, plywood, or kraft paper
- 858ml adhesive caulking gun, if needed
- 50lb or 70lb roller, depending on thickness

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### Sizes:

- 5/16" (8mm) x 12' length
- 3/8" (10mm) x 12' length
- 1/2" (12mm) x 12' length
- 3/4" (20mm) x 12' length

### Adhesives

- Varying temperature ranges will affect curing times, viscosity, and pot life of the adhesive, possibly resulting in adhesion problems.
- Use safety glasses, rubber boots, and rubber gloves when applying adhesive.  
Do not allow the adhesive to cure on your hands.
- The room must be well ventilated.
- For first aid and safety instructions, see labels on the can and the safety data sheet.
- If adhesives other than the products listed below are being used, this could void the warranty. Contact Allstate for verification.
- For detailed information and product use, refer to the Technical Product Data Sheet which is included.

#### DinoGrip Adhesive (V.O.C. compliant)

- Single-component polyurethane adhesive
- 4 US gallons: 57lbs (25.8kg)
- Approximate coverage: 400ft<sup>2</sup> (37.16m<sup>2</sup>)
- 1/16" V-notched trowel
- 12-month shelf life

#### Chemrex Urethane 948 (V.O.C. compliant)

- Single-component polyurethane adhesive
- 858ml gun grade: (29oz tube)
- Approximate coverage:
  - 1/8" (3mm) bead = 345 lineal feet
  - 3/16" (5mm) bead = 153 lineal feet
  - 1/4" (6mm) bead = 86 lineal feet
  - 5/16" (8mm) bead = 55 lineal feet
  - 3/8" (10mm) bead = 40 lineal feet
- 12-month shelf life

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### Adhesives (continued)

- It is not uncommon for a moisture-cure urethane product to develop a slight skin on the top surface of the can.
- The product is still good; remove the skin and mix the adhesive well.
- Refer to the batch number on the bottom of the adhesive can and contact Allstate to determine if it has expired.
- Allstate is **not** responsible for adhesives used past their expiration date.

### SUBSURFACE PREPARATION

#### Preparation of the Subsurface

- The subsurface must be flat/smooth, clean, and dry, structurally sound, and all debris, including old adhesive, must be removed. Scraping may be required to remove debris.
- Expansion joints in concrete are designed to allow for the expansion and contraction of concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.
- Particleboard, chipboard, Masonite, and Lauan Plywood are unsuitable substrates.
- Maxxon Corporation's line of underlayment's, both gypsum- and hydraulic cementbased, are acceptable, provided the compressive strength of the underlayment's meet or exceed 3,500 psi.
- If installing on an inclined surface, start at the bottom and move up the surface to avoid sliding the mats.
- Debris left under mats will cause height variations, telegraphing, and undulations.
- If the subsurface has been previously sealed or finished, the surface may need to be stripped and cleaned to ensure an adequate bond.
- Petroleum distillates (e.g., solvents) and liquid animal fats may cause surface bonding to fail. Test results for other harmful chemicals and compounds may be available on request.
- Contact Allstate for verification.

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### SUBSURFACE PREPARATION (continued)

#### Concrete Subsurface

- New concrete subfloors must be thoroughly cured and free from hydrostatic pressure (at least 30 days after pouring).
- Consult adhesive specifications for allowable moisture tolerance.
- Concrete substrates should not exceed 90% RH and/or 5lbs x 24 hours x 1000 sq. ft.
- It is essential that pH tests be taken on all concrete floors. This must range between 7 and 9. If it does not, the subfloor must be neutralized before the installation begins.  
**These tests must be documented.**
- The moisture vapor emissions test per ASTM F1869 and the relative humidity in concrete test per ASTM F2170 must be completed.
- Subsurface must be smooth and level to a tolerance not exceeding 1/8" in 10 lineal feet. The Concrete Surface Profile (CSP) must meet CSP2 requirements.
- If existing concrete is too rough or does not meet the above criteria, apply a Portland cement-based levelling compound to smooth and level the surface. Follow the instructions provided by all levelling compound manufacturers.
- Moisture is the single most significant factor that causes bonding failure to the subsurface.
- The warranty is not applicable if the specified moisture ranges are not adhered to.

#### Wood Subsurface

- Wood subsurface must have a minimum thickness of 1" and be free from any flex movement (5/8" on joists with a 3/8" overlay is acceptable).
- The new plywood should be acclimatized for 48 hours before the installation of the rubber flooring.
- A CDX exterior smooth on one side is suggested for new wood substrates.
- Secure all nails and screws to prevent future protrusion.
- Any cracks, holes, rough or uneven areas should be patched with a polymer-modified cement levelling compound and/or sanded to achieve a smooth surface.
- It is vital that a moisture test be completed before installation and that records be kept. No less than 20 spot checks per 1000 sq. ft. should be observed. Readings exceeding 13% are unacceptable; installation must wait until levels are at or under 13%.
- Moisture is the single most significant factor that causes bonding failure to the subsurface.
- The warranty is not applicable if the specified moisture ranges are not adhered to.

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#### HAZARDS

**Silica Warning:** Concrete, floor patching compounds, toppings, and levelling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica particles (1-10 micrometres). OSHA classifies respirable silica as an IA carcinogen known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation, or provide protective equipment, to reduce exposure below applicable exposure limits.

**Asbestos Warning:** Resilient flooring, backing, lining felt, paint, or asphaltic “cutback” adhesives can contain asbestos fibres. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, scrape, drill, saw, bead blast, or mechanically chip or pulverize. Regulations may require testing the material to determine its asbestos content. Consult the document “Recommended Work Practices for Removal of Existing Resilient Floor Coverings,” available from the Resilient Floor Covering Institute.

**Lead Warning:** Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication “Lead-Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing,” available from the United States Department of Housing and Urban Development.

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### PRE-INSTALLATION

#### General Information

- Before installing Allstate ReNew Terrazzo Rubber Flooring, ensure all other trades have completed their work schedules.
- Masonite board, plywood, or kraft paper should be used to protect the rubber flooring from damage and debris.
- To achieve full acclimation, the product, subfloor, and adhesive must be at the same temperature. This should be checked and documented using an infrared digital thermometer. The temperature should also be reported during the installation, as it may change. *(see acclimation requirements below)*
- Allstate is not responsible for any product failure if proper floor preparation and/or installation procedures are not followed.
- Check the ambient temperature.
- All HVAC systems must be fully operational 24 hours before beginning the acclimation process.
- Rubber flooring may be installed between temperatures of 18°C (57°F) and 23°C (72°F).
  - o Room temperature must be consistent during the entire installation.
  - o Large fluctuations in temperature or humidity will cause expansion or contraction.
  - o In-floor radiant heat should be turned off 24 hours before acclimation and remain off for 72 hours before installation. It should remain off throughout installation and remain off for 72 hours after installation is complete.
  - o It is recommended that the surface temperature does not exceed 25°C (77°F)
- **Please note:** Light-colored EPDM is susceptible to Ultraviolet degradation. Caution should be used when installing near windows in direct sunlight. The warranty is void if the unit is installed under these circumstances.

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### PRE-INSTALLATION (continued)

#### Chalk Lines

- Locate the room's midpoint and chalk a start line down the center. Chalk another similar start line 90° to the first one. See Figure 1.

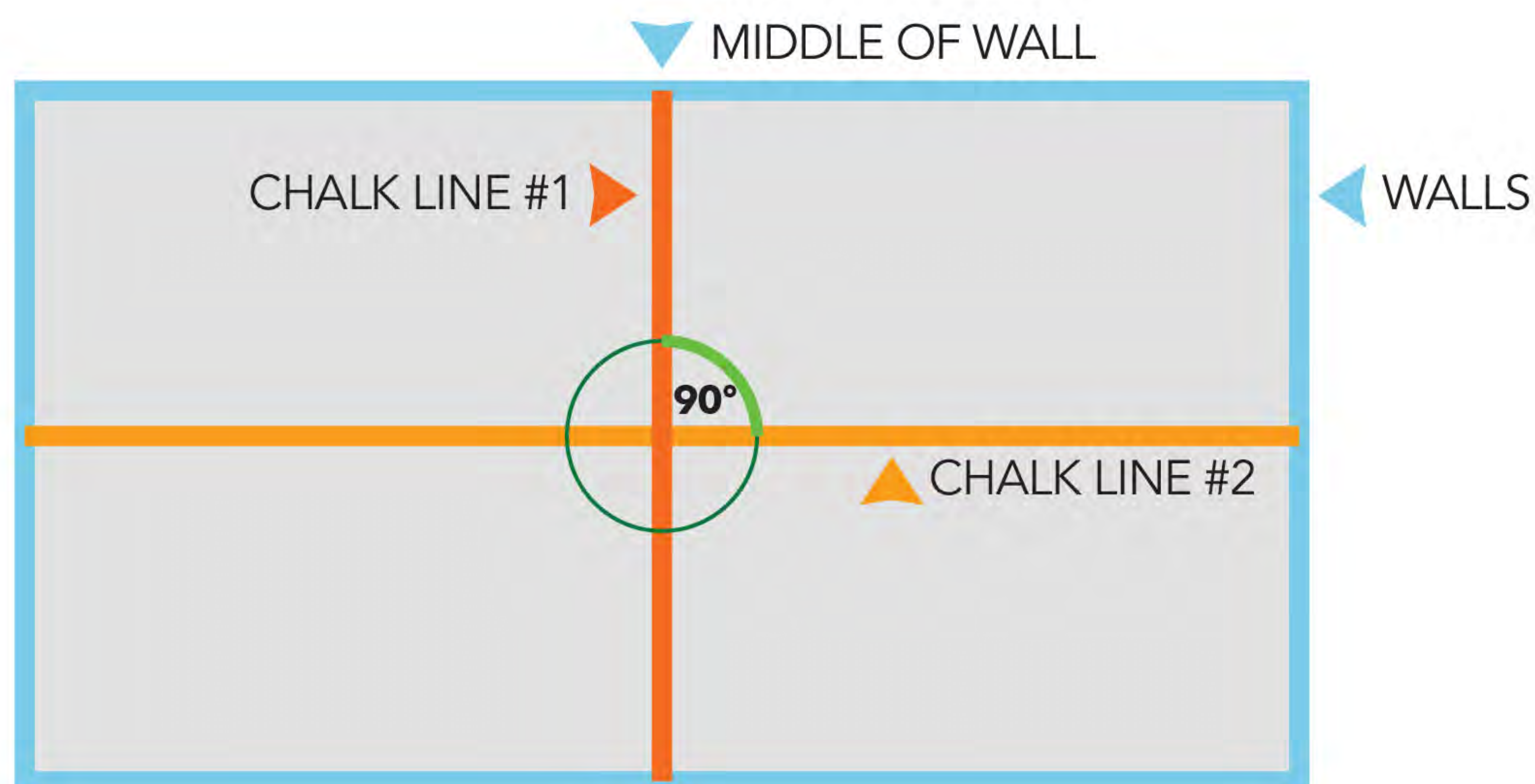


Figure 1

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### PRE-INSTALLATION (continued)

#### Mat Layout

- Each mat is marked with a label stating:
  - **“This Side Down”** Do not remove these labels until final glue down commences.
  - Make sure all mats are laid down with the “label pointing in the same direction. (i.e., Bottom right corner).
  - Install mats the same side up as received.  
**Do Not Flip Over** (i.e., see Figure 2 – sticker right).



Figure 2

- The installer should have all relevant information about the mat arrangement from the owner.
- Begin mat layout from the point where the two chalk lines intersect.
- Work outwards in both directions.
- Start the second row on either side of the center line towards the chalk line.
- Stagger the second row, voiding the four corners meeting. (See Figure 3)
  - Allstate does not warranty corner-to-corner installations, as variance at the four corners meeting points can be misaligned.

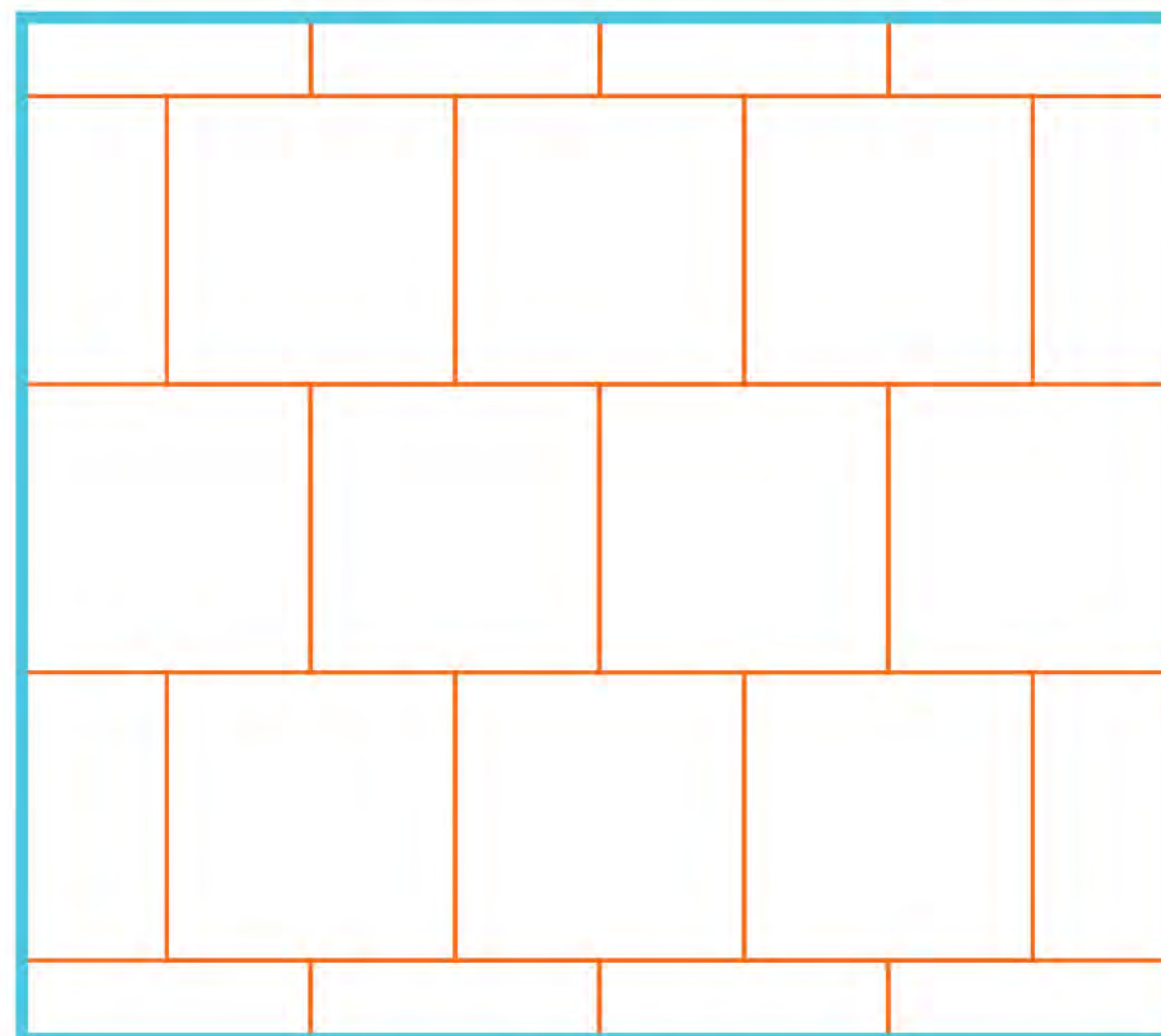


Figure 3

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### ACCLIMATION & DRY LAY

The [Acclimation Checklist](#) must be completed, or the warranty will be void.

- o Products stored for less than eight weeks will require 48 – 72 hours of acclimation.
  - o Products stored for over eight weeks may require an extended acclimation period. Allow the mats to acclimate until they reach a consistent size.
    - Some products under certain conditions have shown expansion and contraction in size of up to 1/8" (3.2mm).
  - o Three measurements should be taken over the 24 hours. If the measurements change in either direction, an additional 24-hour period will be required, using the same process. Failure to do this will result in peaking or gapping at the seams, which will void the warranty.
  - o Mats in the lower portion of the stack will compress to a greater degree than those in the upper portion.
  - o A mat laid down in the morning hours at 0°C (32°F) would be a different size than a mat laid at 20°C (68°F) later in the day.
  - o Acclimation should only begin once the subsurface has reached a temperature between 18°C (57°F) and 23°C (72°F).
  - o Mats must be acclimated in the space in which they will be installed. (Including the substrate on which they are being installed.)
  - o If acclimation is not followed, peaking or gapping at the seams may occur during the curing of the adhesive and is not covered under the warranty.
- For acclimation, lay out all mats in piles of 2 or 3 throughout the space.
    - o Allow the mats to acclimate until they have reached a consistent size.
      - Some products under certain conditions have shown expansion and contraction in size of up to 1/8" (3.2mm).
      - Measure different mats throughout the acclimation process to see if they have reached their full dimensions. Mats need to be at a consistent dimension for at least 24 hours.

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### ACCLIMATION & DRY LAY (continued)

The Dry Lay Process Checklist must be completed, or the warranty will be void.

- o Individually lay out all mats on the subsurface.
- o Be sure to mix mats from several pallets to blend minor shade variations.
- o Check for any shading or uneven color distribution.
- o This is not considered to be a product defect.
- o Rotating the mat 90° or installing it in a less visible area may help improve the effect.
- o If dark edges appear, this may be residue from the water jet cutter. A deep clean will be required before or after the mats are installed. Use DinoClean or a neutral pH cleaner to scrub the mats before installation, or an auto scrubber after installation.
- o Inspect all mats for visible defects.
  - Ensure the defective product is identified before the installation starts and notify the Rep/Dealer immediately.
    - Labor will not be covered if any defective product is installed.
  - Skive marks are inherent in manufacturing recycled rubber flooring products and are considered normal.
  - Certain lighting conditions can accentuate these marks and, as such, are not considered a product defect.
- If curled edges are present, you may need to tape the seams with a low-tack painter's tape and weigh the seams down until the adhesive cures.
  - o Insert the two mats into the adhesive, push the edges tightly together, then tape and weigh it down with a heavy weight along the entire seam throughout the space.
  - o Continue until all the mats have been installed.
  - o Leave it on until the adhesive is fully cured. Depending on environmental conditions, this could last up to 72 hours.
  - o Remove the tape as soon as the adhesive is fully cured.
- If delamination occurs on the edge of the laminated mats, this can be repaired on-site with Gorilla Glue®.
  - o Apply a dab of Gorilla Glue to the loose area and pinch together.
    - Weigh the area while the adhesive is drying.

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#### ACCLIMATION & DRY LAY (continued)

##### Cutting

- Lay the mat flat, hold the metal straight edge on the cut line, and cut with a sharp utility knife.
- Keep scoring the cut until it is separated.
- Change or snap off blades frequently to ensure clean cuts.
- For odd angles, circular patterns, etc., a cardboard template is suggested.
- Join factory edges together. Hand-cut edges should be used only against the perimeter walls.

#### LAYOUT & INSTALLATION

##### General Installation Information

- **Do not install** the mats if they are not square and the appropriate thickness has not been reached.
- Intended for indoor use only (if installed outdoors, the warranty will be void).
- Glue-down installation is required for all square-edge mats.
- Refer to the adhesive label for working time.
- Ensure to work in small areas, 2-3 mats at a time, so the adhesive does not set or skin over before laying the mat.
- Avoid uneven spreading or the use of a larger trowel. Excess adhesive can cause adhesive to come up between the seams.
- Remove excess adhesive from the subfloor within 10 minutes with a putty knife so it does not cure. Cured adhesive on an adjacent row will cause height variations.
- Tape is not required; certain tapes will leave residue and cannot be removed from the top surface without possible damage.
  - o Low-tack painters' tape can be used but must be removed immediately after installation.

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### LAYOUT & INSTALLATION (continued)

#### Mat Installation

**Do not get adhesive on the top surface of the rubber flooring, as it is impossible to remove when cured. Immediately use a clean, damp cloth to remove any adhesive.**

- Place the mat you are installing on top of the mat already glued down and pull towards the area you want to fill until the mat falls into place. Then, firmly press the mat up to the edge of the existing mat. (See Figure 4)
  - Over-compressed seams will cause peaking; care should be taken when compressing seams.
- This will keep the excess adhesive from protruding between the seams.



Figure 4

- Leave a ¼" gap to all walls for mat expansion.
  - Allow 72 hours before post-install cleaning.
  - Avoid heavy traffic or rolling loads during curing to prevent indentation or movement of mats.
  - Never leave adhesive ridges or puddles. They will telegraph through the material.
- If peaking occurs due to inadequate acclimation, seams may need to be weighed down to ensure they stay flat during installation.

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### LAYOUT & INSTALLATION (continued)

#### Clean Up Adhesive

- Do not get adhesive on the top surface of the rubber flooring, as it is impossible to remove when cured.
  - Immediately use a clean, damp cloth to remove any adhesive.
- Allstate does not warrant products where an attempt to remove the adhesive has been made. The installer is solely responsible for any damage to the mat that may occur during the removal of the adhesive.
- Contact your Allstate supplier immediately for suggested cleaning methods if this happens.
- Caution: The use of mineral spirits can cause the area to appear darker.
- Intense scrubbing of the seams will also darken the edges.

#### General Logo Information

- All logos are assembled at the factory before shipping to ensure a precise fit.
- Logos do not ship assembled.
- Logo pieces are labeled and supplied with reference graphics for installation.
- Use care when handling logo pieces to protect them from damage or loss.
- Logos are packaged depending on size:
  - One mat logos are usually packaged in a separate box.
  - Larger logos are packaged on top of the pallet.
  - Smaller pieces are always packaged separately in a plastic bag or a small box.

#### Logo Installation

- Before starting the logo installation, confirm the required logo location from site drawings or by confirming with the building owner.
- Acclimate and dry lay as per the guidelines previously mentioned above.
- While acclimating and dry laying, tape all logo pieces in place. (Low-tack painters' tape may hold pieces in place during this step, but tape must be removed immediately after the logo is installed.)
- Carefully remove the logo and place it to the side.

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### LAYOUT & INSTALLATION (continued)

#### Logo Installation (continued)

- Spread adhesive around logo placement per the logo layout above.
- Be extremely careful not to use too much adhesive, as it could seep through the small piece seams onto the surface of the logo mat. Do not apply glue to the top side of any logo pieces.
- If the adhesive gets on the logo's top side, immediately wipe with a clean, damp cloth.
- Carefully place the background mat and logo pieces into place, starting with the larger pieces.
- Gently adjust pieces to ensure a good fit.
- Continue to install the surrounding floor, carefully protecting the logo from all traffic.
- Cover with Masonite board, plywood, or kraft paper until the remainder of the installation is complete.

#### Rolling

- Roll each row as completed or within 15 - 20 minutes. Also, roll the entire area at the end of each day using the appropriate roller. This will depend on the thickness of the product.
- Work in all directions. North to South and East to West.
  - Do not twist or pivot the roller or your feet as it will stretch the mats; roll in a long, straight line.
  - Adhesives are slippery when they first spread, and mats can shift position even if only slightly.
  - Too much rolling or too heavy a roller could cause the mats to buckle and the adhesive to move upwards through the seams.
  - Furthermore, stretching of the rubber flooring can eventually lead to gaps between the mats.
  - Rolling slowly or rolling too quickly could affect the adhesive's bond.
  - Do not roll right along the edge of the mat; always try to overlap on the seams.
- No foot traffic should be allowed for 48 hours; allow 72 hours for maximum strength.
- When rolling a logo, place a piece of Masonite board or plywood over it to stop small pieces from moving.
- **Roller Guideline:**
  - 5/32" - 9/32" (4mm-7mm) mat thickness – use 50lb roller.
  - Thicker than 5/16" (8mm) mat thickness – use 70lb roller.

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### POST-INSTALLATION CLEANING

- When the installation is complete and the adhesive is fully cured (at least 72 hours).
  - o Sweep the floor to remove debris, then dust mop thoroughly to remove all surface dust and dirt using a dust or microfiber mop.
  - o Use a neutral PH cleaner. (See dilution rates on labels).
  - o Do not use any oil-based cleaners as they will deteriorate the mats.
    - Damp mop with a quality rubber floor cleaner diluted with warm water; use a microfiber mop.
    - Use a two-bucket system and change the water frequently.
  - o If the floor has excessive dirt or dust, additional cleaning with a lightweight auto scrubber may be required.
    - An RPM of 185 and brush pressure between 35lbs and 85lbs are recommended.
    - If disc-type equipment is used, use a soft nylon brush, not a pad.
  - o Do not flood the floor.
  - o Allow the floor to dry thoroughly.
  - o Apply a treatment of protective, color enhancing low-gloss coating if desired.  
Use a quality waterproof, stain resistant product to assist in cleaning and maintenance.