

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE YOU BEGIN INSTALLATION! IMPROPER INSTALLATION WILL VOID WARRANTY.



Figure 1

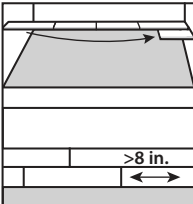


Figure 2

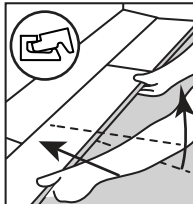


Figure 3

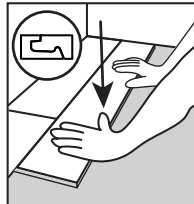


Figure 4

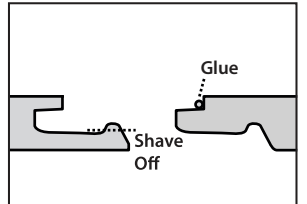


Figure 5

FOR BEST VISUAL REPRESENTATION OF YOUR FLOOR

Stone Polymer Composite flooring replicates the look of a natural product which has natural variations in color and texture. For best visual effect, shuffle planks from several cartons and do not install similar boards next to one another.

SUBFLOOR PREPARATION

Subfloor must be level, dry and free of imperfections. An uneven subfloor will make the floor feel unstable and cause premature damage.

Please note: Additional foam is not required if foam is already attached to flooring.

PRE-INSTALLATION JOBSITE REQUIREMENTS

Carefully examine the flooring prior to installation for color, finish and quality. Ensure adequate lighting for proper inspection. If flooring is not acceptable, contact your supplier immediately and arrange for replacement. Factory cannot accept responsibility for flooring installed with visible defects. Prior to installation of any flooring, the installer must ensure that the jobsite and subfloor meet the requirements of these instructions. Factory is not responsible for flooring failure resulting from unsatisfactory jobsite and/or subfloor conditions.

Flooring should be one of the last items installed in any new construction or remodel project. Although flooring is waterproof it is not a moisture barrier.

Crawl spaces must be a minimum of 18" (46 cm) from the ground to the underside of the joists. A ground cover of minimum 6mil black polyethylene film is essential as a vapor barrier with joints lapped 6" (15 cm) and sealed with moisture resistant tape. The crawl space should have perimeter venting equal to a minimum of 1.5% of the crawl space square footage. These vents should be properly located to foster cross ventilation.

Room temperature and humidity of installation area should be consistent with normal, year-round living conditions for at least one week before installation of flooring. Maintaining an optimum room temperature of 70° F and a humidity range of 30-50% is recommended.

Acclimate flooring by storing the packages in the room or rooms to be covered for at least 24 hours at normal room temperature before installation.

PRE-INSTALLATION SUBFLOOR REQUIREMENT

- All Subfloors must be:
- Dry (30-50% relative humidity)
- Structurally sound
- Clean: Thoroughly swept and free of all debris
- Level: Flat to 4.7mm(3/16") per 3.3 meters (10-foot) radius
- Required Moisture Testing-maximum moisture level per ASTM 1869 CaCl is 8lbs. and
- ASTM 2170 In-situ Relative Humidity 90% per 1000 sqft in 24 hours
- pH level of concrete should be between 6-10
- Warranty requires moisture testing before installing on concrete subfloors.

Wood subfloors must be dry and well secured. Nail or screw every 6" along joists to avoid squeaking. If not level, sand down high spots and fill low spots with a Portland Based leveling patch.

Concrete subfloors must be fully cured, at least 60 days old, and should have minimum 6-mil polyfilm between concrete and ground. Subfloor should be flat and level within 3/16" per 10' radius. If necessary grind high spots down and level low spots with a Portland leveling compound.

Ceramic Tile, resilient tile and sheet vinyl must be well-bonded to subfloor, in good condition, clean and level. Do not sand existing vinyl floors, as they may contain asbestos.

INSTALLATION TOOLS

- For all installation methods:
- Tape measure
- Tapping block (trimmed piece of flooring) - Do not use with other tapping blocks. Damage will occur to Stone Polymer Composite core.
- Pencil
- Pry bar or pull bar
- Chalk line
- Crosscut power saw
- 3M Scotch-Blue™ 2080 Tape or Equivalent Tape
- Rubber mallet
- Acceptable subfloor types:
- CDX Underlayment Grade Plywood (at least ½" thick)
- Underlayment grade particleboard
- OSB (at least ¾" thick)
- Concrete slab
- Existing wood floor
- Ceramic tile
- Resilient tile & sheet vinyl

STARTING YOUR INSTALLATION

Work from several open boxes of flooring and "dry lay" the floor before permanently laying the floor. This will allow you to select the varying grains & colors and to arrange them in a harmonious pattern. Remember, is the installers' responsibility to determine the expectations of what the finished floor will look like with the end user first and then to cull out pieces that do not meet those expectations.

Begin installation next to an outside wall. This is usually the straightest and best reference for establishing a straight working line. Establish this line by measuring an equal distance from the wall at both ends and snapping a chalk line. The distance you measure from the wall should be the width of a plank. You may need to scribe cut the first row of planks to match the wall in order to make a straight working line if the wall is out of straight.

You may want to position a few rows before starting installation to confirm your layout decision and working line. When laying flooring, joints from row When cutting last plank row you begin the next row. stagger end to row by at least 8", the in a to fit, can use the cut-off end to begin the next row.

If cut-off end is 8" in length or less, discard it and instead cut a new plank at a random length and use it to start the next row. Always begin each row from the same side of the room. When near wall, you can use a pry bar to pry close the side and end joints.

INSTALLATION INSTRUCTIONS

Inspection: Prior to installation, inspect planks in daylight for visible faults/damage. Check if subfloor/site conditions comply with the specifications described in these instructions. If you are not satisfied do not install, and contact your supplier.

Before laying: Measure the room at right angle to the direction of the planks. For best visual effect, planks in the final row should be at least 2 inches wide (half width of plank minimum). For this purpose, planks in the first row can be cut to smaller size. Shuffle planks in order obtain Lay planks preferably following the main source of light.

We recommend laying to a pleasant blend of shades. direction of the on wooden floors crossways to the existing floorboard. Planks must not be nailed or screwed to the subfloor. Base boards and molding must not be fixed in a way which restricts the movement of the floor. Do not restrict movement of the floor by placing heavy objects like kitchen islands or cabinets onto the flooring.

INSTALLING THE FIRST ROW:

1. Adjust row so end cut is not less than 8".
2. Use shims to allow 3/8" expansion gap between the planks and the walls, or stationary interior room objects, so there is room for normal expansion and movement.
3. Starting from the LEFT with the tongue facing the wall, carefully place the first board in place. (Figure 1)
4. Align the next piece by overlapping the short end of the first board. Engage the short end at a 45° angle of the tongue and groove. The board must be flat to engage completely. Tap lightly into place by using a rubber mallet and tapping block to firmly lock short end. Continue in this manner until reaching the final plank in the first row.
5. Cut the final board piece to length.
6. Begin the second row with the cut piece from the first row. If the cut piece is shorter than 8" (20 cm), do not use it. Instead, begin with a new board that is at least 8" in length and allow 81 between the end joints on the adjacent planks. (Figure 2)
7. Position the first board of the second row in place by angling it up slightly, pushing forward and interlocking the long side of the tongue. Slide the board to the left as necessary to align the edges of the end joint of the first row. Carefully push the board down until the tongue and groove lock together on the long side and ends.
8. Install second board of the second row (same as step 4 above). Slide close to end joint without touching it. Ensure board lays flat. (Figure 3)
9. Tap firmly but gently on end joint with a rubber mallet and tapping block to fully engage short end. Before moving on to the next board, ensure the end joints are flush and tight.
10. Install the remaining boards and rows in the same manner. (Figures 4 & 5)
11. Cut the last board to size. If necessary, complete the tight fit by tapping the board into place with a pull bar.
12. Whenever practical, use cut pieces from previous rows as the starter board to reduce waste.
13. Maintain 8" spacing between end joints after the first four rows for best appearance.

EXPANSION GAPS & TRANSITION REQUIREMENTS

- Maintain 3/8" expansion gap around room perimeter.
- Areas over 30' long or 30' wide need transition pieces.
- Non-square rooms must have expansion or transition gaps separating them.
- All door openings must have an expansion gap between rooms.

INSTALLING FINAL ROW:

1. The last row may need to be cut lengthwise (ripped).
2. Place the last row of planks to be fit no top of the last row of installed planks. Use a piece of plank as a scribe to trace the contour of the wall.
3. Mark where the board will be cut. If the fit of the wall is simple and straight, simply measure for the correct fit and cut.
4. After boards are cut, position planks and tighten the fit using the pull bar.

INSTALLING UNDER A DOOR JAMB:

1. Installation under moldings (such as door jambs) may require that the top lip of the groove on the end be reduced in size.
2. Using a small plane or knife plane, carefully shave off the ledge of the groove. (Figure 5)
3. After the groove ledge has been trimmed, place the board in place and tighten with a pull bar to test for fit. The installer must be sure that the required expansion gap has been maintained and the flooring is not pinched.
4. If fit is not correct, re-trim as necessary.
5. Place bead of wood glue on the bottom lip of the groove.
6. Insert the tongue into the groom and tighten the fit with a pull bar. Hold the board in place with painters tape (3M Scotch-Blue™ 2080 Tape or equivalent) until the glue is dry. Do not use masking tape or duct tape as they may damage the floors finish.

In-floor Radiant Heat:

Use only recommended flooring adhesive over manufacturer's recommended plywood substrate.

- Turn the heat off for 24 hours before, during and 24 hours after installation when installing over radiant heated subfloors
- Failure to turn the heat off may result in shortened working time of the adhesive.
- Floor temperature must not exceed 85°F (30°C).
- Failure to strictly follow adhesive manufacturer's guidelines may result in failure and void warranty.

Warning: Heating mats work very well under carpet, tile and stone, however we do not recommend having them placed directly underneath the Vinyl Stone Polymer Composite floor. It is best to install Vinyl Stone Polymer Composite flooring over hydro-based radiant heating systems.

AFTER INSTALLATION

- Flooring should be one of the last items installed in a project. In order to protect the floors while other trades are finishing their work prior to final cleanup and turnover to the owner, use rosin paper and only use 3M Scotch-Blue™ 2080 Tape (or equivalent) to hold the rosin paper to the floor (other blue tapes may damage the finish). Clean the floor thoroughly before laying the rosin paper to ensure that no debris is trapped underneath.
- DO NOT USE plastic film or other non-breathing coverings as this can cause the floor to become damaged from humidity buildups.
- Dust mop or vacuum your floor to remove any dirt or debris.
- It is suggested that you buff the floor with lamb's wool pads in order to remove any loose splinters, residues, foot prints, etc.
- Install any transition pieces that may be needed (reducers, T-moldings, nosing. etc.).

Protection and Maintenance of Your Floor

Lasting beauty can be achieved through purchasing a quality floor covering and providing proper on-going maintenance.

- Furniture should be moved onto the newly installed floor using an appliance hand truck over hardboard runways.
- Avoid exposure to long periods of direct sunlight. Close blinds or drapes during peak sunlight hours. Floor covering subjected to excessive heat and light is subject to thermal degradation. Use appropriate precautions to minimize potential effects on the floor covering.
- Oil or petroleum-based products can result in surface staining. Do not track asphalt-driveway sealer or automobile-oil drips onto the vinyl floor covering.
- Use non-staining mats. Rubber may discolor the floor.
- Frequently moved furniture should be equipped with felt pads to avoid scratching the floor. Heavy furniture and appliances should be equipped with non-staining large surface floor protectors. Furniture with castors or wheels must be easy swiveling, large surface non-staining and suitable for resilient floors. DO NOT use ball type castors as they can damage the floor.
- Use floor protectors under furniture.
- Use walk off mats at entrances to prevent dirt and grit from being tracked on to the floor.
- Sweep or vacuum the floor regularly to remove loose dirt. DO NOT use vacuums that use a beater bar or turn beater bar off.
- DO NOT use electric brooms with hard plastic bottoms with no padding.
- Clean up spills immediately. Damp mop as needed using clean water and a diluted floor cleaner. DO NOT use harsh cleaners or chemicals on the floor. DO NOT use abrasive scrubbing tools. DO NOT use detergents, abrasive cleaners or "mop and shine" products.
- Vinyl Flooring, like other types of smooth floors, may become slippery when wet. Allow time for floor to dry after washing.
- Immediately wipe up wet areas from spills, foreign substances or wet feet