

INSTALLATION GUIDE

CONCRETE + COMPOSED, COMMUNITY LVT

Thank you for choosing our flooring. When properly installed and cared for, your new flooring will be easy to maintain and will keep its great look for years. Please read all the instructions before you begin the installation. Improper installation will void the warranty.

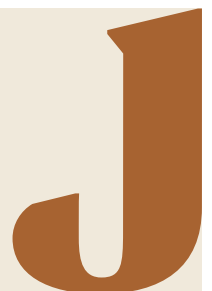
IMPORTANT NOTES

- Set out of the material is the most important part of the installation and should be done prior to starting the installation. Take your time getting this right.
- To get the correct expansion gap for a floating floor the use of spacers is recommended for the first row of planks/tiles. A 8mm spacer is the minimum recommendation. For ease of installation all skirting should be removed or left off.
- For a glue down installation measure out one row of tiles from the starting wall, drop a chalk line and install three rows of tiles/planks placing them into the wet adhesive and then roll with a heavy floor roller. This will give you a solid base for the remainder of the installation. Leave a 4-5mm gap for a glue down installation.
- The recommended adhesive for a glue down installation is Uzin KE68T with a V1 notched trowel and keep trowel notches clean at all times.
- Keep the area of the installation clean. Use a vacuum cleaner or good broom to clean the entire space. This will keep the locking mechanisms clean during the installation.
- Don't glue more of the floor area than you can cope with at one time. The planks need to go into the wet adhesive and work a heavy floor roller must be used to provide good glue transfer to the back of the material.
- Work from left to right, a row at a time, making sure each tile/plank is installed properly.
- Lightly tap down all cross joints with a rubber mallet making sure all the joints are fitted properly. Note: Don't hit the cross joints too hard as this can fracture and compromise the locking mechanism.
- Always drop chalk lines for glue lines and never glue up to the edge of the last tile. Stay back at least 10mm under the tile. This will help with the installation of the next tile to make sure it can be clicked into the locking mechanism without getting caught up in drying adhesive. This is very important.
- In areas of high heat make sure you block out direct sun light with curtains or by hanging pattern paper or similar on windows and ranch sliders.
- The use of the correct expansion gaps should always be followed. This material cannot be restricted in any way even when glued to the substrate.

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Concrete + Composed / Expression + Inclusive Resilient Installation Guidelines For SPC Products

I. GENERAL INFORMATION

All instructions and recommendations should be followed for a satisfactory installation.

- Acclimation of material prior to installation is not required however the floor covering should be installed in a climate controlled environment with an ambient temperature range between 55° - 85°F (13°-29°C) or average temp. of 70 degrees (21.1°).
- Post installation temperature range is between 55 and 100 degrees F (13°- 37.7°C).
- Avoid exposure to direct sunlight for prolonged periods, doing so may result in discoloration. During peak sunlight hours, the use of drapes or blinds is recommended. Excess temperature due to direct sunlight can result in thermal expansion and UV fading.
- Install product after all other trades have completed work that could damage the flooring.
 - If cabinets are to be installed on top of the flooring (including islands), that area of material must be fully adhered to the subfloor (including an additional 2'ft beyond the cabinets and islands).
- To minimize shade variation, mix and install planks from several cartons.
- Inspect all planks for damage before installing. If you have any concerns about the product fit or finish, call Shaw Information Services at 1-800-441-7429. Claims will not be accepted for flooring that has been cut to size and/or installed.
- Use cementitious patching and leveling compounds that meet or exceed maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- For cracks or saw cuts deeper than 1", follow the preparation and application instructions for Shaw QuikFill. QuikFill is a 2-part urethane treatment that prevents future damage from moisture penetrating to the surface of the slab that may damage or breakdown adhesives or unapproved patching compounds.
- Installation Methods: Floating (on, above or below grade) / Glue Down (on, above or below grade)
- Required perimeter expansion spacing for Floating or Glue Down installation is as follows:
 - For areas less than 2500 sq ft, use 1/4" gap
 - For areas larger than 2500 sq ft. use 1/2" gap.
- This flooring is waterproof and reliably secures the flooring panels on all four sides. However, excessive moisture in the subfloor could promote mold, mildew, and other moisture related issues like the trapping of moisture emissions under the flooring, which may contribute to an unhealthy indoor environment.
- Additional layer of 6 mil poly film or equal vapor retarder with a perm rating of .1 or less may be used as an additional layer of protection.
- Crumb rubber underlayments are not an acceptable option for use with resilient floor coverings due to performance issues resulting from chemical incompatibilities.

II. SUBFLOOR INFORMATION

All subfloors must be clean, flat, dry and structurally sound. The correct preparation of the subfloor is a major part of a successful installation. Subfloor must be flat – 3/16" in 10' or 1/8" in 6'.

A. WOOD SUBFLOORS

Do not install material over wood subfloors that lay directly on concrete or over dimensional lumber or plywood used over concrete. Refer to ASTM F1482 for panel underlayment recommendations.

1. Do not apply sheet plastic over wood subfloors.
2. Basements and crawl spaces must be dry. Use of a 6 mil black polyethylene is required to cover 100% of the crawl space earth. Crawl space clearance from ground to underside of joist is to be no less than 18" and perimeter vent spacing should be equal to 1.5% of the total square footage of the crawl space area to provide cross ventilation. Where necessary, local regulations prevail.
3. **DO NOT** install over sleeper construction subfloors or wood subfloors applied directly over concrete.
4. All other subfloors – Plywood, OSB, particleboard, chipboard, wafer board, etc. must be structurally sound and must be installed following their manufacturer's recommendations. Local building codes may only establish minimum requirements of the flooring system and may not provide adequate rigidity and support for proper installation and performance. If needed add an additional layer of APA rated underlayment, fasten and secure according to the underlayment manufacturer's recommendations.
5. Resilient flooring is not recommended directly over fire-retardant treated plywood or preservative treated plywood. An additional layer of APA rated 1/4" thick underlayment should be installed.

B. CONCRETE SUBFLOORS

NEW AND EXISTING CONCRETE SUBFLOORS SHOULD MEET THE GUIDELINES OF THE LATEST EDITION OF ACI 302 AND ASTM F 710, "STANDARD PRACTICE FOR PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT FLOORING" AVAILABLE FROM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, 100 BARR HARBOR DRIVE, WEST CONSHOHOCKEN, PA 19428; 610-832-9585; [HTTP://WWW.ASTM.ORG](http://www.astm.org).

- Floors shall be smooth, permanently dry, clean, and free all foreign material such as dust, wax, solvents, paint, grease, oils, and old adhesive residue. The surface must be hard and dense, and free from powder or flaking.
- If the adhesive residue is asphalt-based (cut-back), or any other type of adhesive is present, it must be removed by industry accepted methods such as mechanical removal or wet scraping.
- If a chemical abatement has been performed, use Shaw Surface Prep EXT to remove any residual chemicals present. Once Shaw Surface Prep EXT has been properly cleaned and removed, apply one coat of Shaw MRP for additional protection.

Adhesive removal through the use of solvents or citrus adhesive removers is not recommended. Solvent residue left in or on the subfloor may affect the new adhesive and floor covering.

WARNING! DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEAD BLAST OR MECHANICALLY CHIP OR PULVERISE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT BACK" ADHESIVES OR OTHER ADHESIVES.

These products may contain either asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material. See current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for Removal of Resilient Floor Coverings for detailed information and instructions on removing all resilient covering structures. For current information go to www.rfci.com.

- Concrete slabs must be dry with no visible moisture.
- Required Moisture Testing - maximum moisture level per ASTM 1869 CaCl is 8 lbs. and ASTM 2170 In-situ Relative Humidity 90% per 1000 sq.ft. in 24 hours.
- Do not install over concrete with a history of high moisture or hydrostatic conditions. Excessive moisture in the subfloor could promote mold, mildew, and other moisture related issues like the trapping of moisture emissions under the flooring, which may contribute to an unhealthy indoor environment. Shaw Industries does not warrant nor is responsible for damage to floor covering due to moisture related issues.
- pH level of concrete should be between 7-10.
- The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

NOTE: IT MAY NOT BE THE FLOOR COVERING INSTALLER'S RESPONSIBILITY TO CONDUCT THESE TESTS. IT IS, HOWEVER, THE FLOOR COVERING INSTALLER'S RESPONSIBILITY TO MAKE SURE THESE TESTS HAVE BEEN CONDUCTED, AND THAT THE RESULTS ARE ACCEPTABLE PRIOR TO INSTALLING THE FLOOR COVERING. WHEN MOISTURE TESTS ARE CONDUCTED, IT INDICATES THE CONDITIONS ONLY AT THE TIME OF THE TEST.

LIGHTWEIGHT CONCRETE

All recommendations and guarantees as to the suitability and performance of lightweight concrete under resilient flooring are the responsibility of the lightweight concrete manufacturer. The installer of the lightweight product may be required to be authorized or certified by the manufacturer. Correct on-site mixing ratios and properly functioning pumping equipment are critical. To ensure proper mixture, slump testing is recommended.

- Lightweight aggregate concretes having dry densities greater than 90 lbs. per cubic foot may be acceptable under resilient flooring.
- Concrete slabs with heavy static and/or dynamic loads should be designed with higher strengths and densities to support such loads.
- Surface must be permanently dry, clean, smooth, free of all dust, and structurally sound.
- Perform Bond testing to determine compatibility of adhesive to the substrate. Shaw 9050 primer can be utilized to promote adhesion.
- Three internal relative humidity tests should be conducted for areas up to 1000 SF. One additional test, for each additional 1000 SF.

Radiant Heating: Radiant-heated subfloor systems can be concrete, wood or a combination of both.

The heating systems components must have a minimum of 1/2" separation from the flooring product. The system must be on and operational for at least 2 weeks prior to installation to reduce residual moisture. Three days prior to installation lower the temperature to 65 degrees, after installation gradually increase the temperature in increments of 5° F to avoid overheating. Maximum operating temperature should never exceed 85°F. Use of an in-floor temperature sensor is recommended to avoid overheating. Contact the manufacturer of your radiant heating system for further recommendations.

- *Electric Radiant Floors:* consist of electric cables (or) mats of electrically conductive materials mounted on the subfloor below the floor covering. Mesh systems are typically embedded in thin-set. When embedding the system components, use cementitious patching and leveling compounds that meet or exceed Shaw's maximum moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- *Hydronic Radiant Floors:* pump heated water from a boiler through tubing laid in a pattern under the flooring. Typically installed in channels under a wooden subfloor (or) imbedded in concrete slabs. Requires the installer follow a specific nailing pattern to avoid penetration of the heat system.

C. EXISTING FLOOR COVERINGS

Flooring can be installed over most existing hard-surface floor coverings, provided that the existing floor surface is fully adhered, clean, flat dry structurally sound and free of deflection.

- Existing sheet vinyl floors should not be heavily cushioned and not exceed more than one layer in thickness. Soft underlayment and soft substrates will compromise the product's locking ability as well as diminish its indentation resistance.
- Installation is NOT allowed over any type of carpet.
- Do NOT install over wood floors adhered to concrete.
- This product can be installed over existing ceramic/porcelain tile products with up to a 1/4 inch wide grout joint. If the grout joint width exceeds 1/4 inch, a cementitious patching compound should be used to fill the grout joint to make it smooth with the surface of the tile.

RAISED ACCESS PANEL SUBFLOORS

- Raised access panels must be stable, level, flat, free and clean of existing adhesives
- 24" x 24" panels are recommended.
- Lippage (variation of height) between panels must not exceed 0.0295" (0.75 mm)
- Gaps between panels must not exceed 0.039" (1mm)
- There should be no deflection of the individual panels – Concave less than 0.0295" (0.75 mm)
- Flatness 1/8" in 10'
- Stagger the flooring tiles/planks to overlap the access panels
- Telegraphing of access panel seams may be visible and is not considered a product defect nor warranted by the flooring manufacturer.

If needed overlay the panels with a 1/4" (6 mm) plywood and properly fasten to the access panels prior to the installation of the floorcovering. Prior to underlayment installation, repair any loose or unstable panels. Use the appropriate installation methods for the product.

III. INSTALLATION

Tools: Tape Measure, Utility Knife, Jigsaw, Tapping Block or Rubber Mallet, Pull Bar, 1/4" Spacers, T-Square, Safety Glasses, Broom or Vacuum and, if necessary, tools for subfloor repair.

Floating Installation

SPC plank flooring is designed to be installed utilizing the floating method. Proper expansion space 1/4" (6.35 mm) is required. Undercut all doorjambes. Do not fasten wall moldings and or transition strips to the planks.

Glue Down Installation: SPC products are approved for glue down installation over approved wood and concrete substrates. Follow adhesive label application instructions. Install flooring into wet adhesive to achieve a permanent bond. Maintain 1/4" (6.35 mm) perimeter expansion space. Refer to adhesive label for moisture limits of the adhesive. Roll flooring immediately after installation with a 100 lbs. 3-section roller

- Recommended Adhesive: Shaw 4100, Shaw 4151 (or comparable premium adhesive)

Flooring must be installed in a staggered (offset) pattern.



Remember to stagger end joints from row to row – 8+” for planks and 12+” for tiles.

Planks: Use the cut-off end from the previous row to begin the next row. If the cut-off end is less than 8”, cut a new plank to be 8” or more to start the next row.

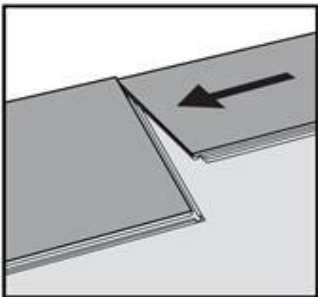
Tiles: Always begin a row with either a full tile or a half tile so the joints are consistently staggered in a “brick work” type pattern.



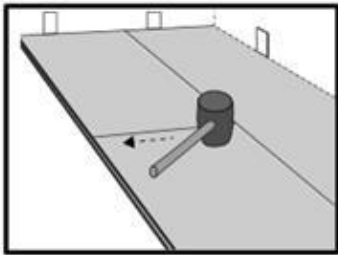
1. Before you start with the installation, it is important to determine the layout of the flooring. Proper planning and layout will prevent having narrow flooring widths at wall junctures or very short length pieces at the end of rows.
2. As with all flooring products, install the flooring parallel to the longest exterior wall.
3. Determine if the starter row will need to be cut. (*In order to have a balanced floor layout, the width of the flooring for the first and last row may need to be cut). The cut width of the flooring should be ½ the width of the flooring. If the first row of flooring does not need to be trimmed in width, it will be necessary to cut off the unsupported tongue so that a clean, solid edge shows towards the wall.
4. Installation of the product must start from the left side of the room, working to the right when working in front of the flooring or facing the starting wall. Use spacers along the walls to maintain proper expansion space (1/4”) and align the first piece.



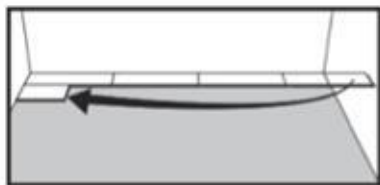
5. Install the second row by aligning and dropping the end tongue over the end groove of the first piece. Apply light pressure to join the two pieces together.



6. If needed use a rubber mallet to fully engage the short side of the flooring by lightly tapping on the top of the flooring to engage and sit flush with the adjacent piece. Maintain an expansion gap of approximately 1/4" from the wall. Repeat this process to complete the first row. If the end is raised use a non-marking rubber mallet to lightly tap the end (tongue side) about 1" from the seam. Do NOT tap directly on the seam.



7. Start the second row by cutting the flooring to the desired length. Keep in mind that piece must not be shorter than 6" (15cm) to achieve the best appearance.



8. Install the first piece in the second row by inserting the long side tongue into the groove of the piece in the first row. This is best done with a low angle. Maintain light pressure into the side seam as you rotate the flooring to the subfloor. Repeat the process with the remaining additional pieces to complete each row. Very little force is required to seat the tongue into the groove. You should feel the tongue lock into the groove.



9. It is critical to keep the first two rows straight and square, as they are the “foundation” for the rest of the installation. Check for squareness and straightness often.
10. Continue installation and make sure to achieve a random appearance with end pieces of minimum 6” (15cm). Check that all pieces are fully engaged; if a slight gapping is found, the gap can be tapped together by using a tapping block and a scrap of flooring to cover the tapping block in order to avoid damages to the flooring.
11. When fitting under door casings, if necessary, a flat pull bar may be used to assist in locking the joints. Doorjamb or at row ends near walls where space is limited, the tongue can be “shaved” and glue containing “cyanoacrylate” can be applied to the groove to join the pieces together.
12. When fitting around obstacles or into irregular spaces, the flooring can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the flooring.
13. Protect all exposed edges of the flooring by installing wall molding and/or transition strips. Make sure that no flooring will be secured in any way to the subfloor.
14. For wet areas such as bathrooms; caulk the perimeter of the floor with a silicone caulk.
15. Protect the finished flooring from exposure to direct sunlight to reduce fading and thermal expansion.
16. Adhering tape to the surface of your resilient flooring could damage the surface.
Do not use tape to secure floor protection directly to the floor during construction or renovation. Instead, adhere tape to the material used to protect the floor and secure it to the base molding along the wall. A material such as ram board can also be used to protect your flooring.