

Technical Specifications - Traverse™ Strataloc SPC (Stone Polymer Composite – Rigid Core)

1. Product Description

Traverse™ Strataloc is a heterogeneous construction SPC (stone polymer composite) with pre-attached iXPE foam acoustic underlayment. Product incorporates i4F locking mechanism with drop and lock technology. Virgin PVC formulation. Phthalate free. Core composition contains vinyl and limestone (calcium carbonate) with zero wood dust and zero bamboo dust resulting in superior indentation, moisture resistance and thermal stability.

2. Product Details

2.1 Running Line

Gauge: 5.0mm overall thickness (of which 1mm iXPE pre-attached acoustic foam)
Wear Layer: 12 mil (0.012" | 0.30mm)
Edge: No bevel
Locking System: i4F
Size: Planks- 6.8" x 48" (surface area not including locking mechanism)

2.2 Additional Options

Gauge: 6.0mm overall thickness (of which 1mm iXPE pre-attached acoustic foam)
Wear Layer: 20 mil (0.020" | 0.5 mm)
Edge: No bevel
Size: Planks- 8.6" x 48" (surface area not including click locking mechanism)
 Tiles- 12" x 24"

Note: Traverse can accommodate special color requests in addition to running line. These may be in i4F locking mechanism specification or Valinge 5G drop and lock depending on the color requirement. Consult Traverse representative.

3. Approvals / Relevant Standards

ASTM F 2055	- Test to determine squareness:	Passes
ASTM F 2199	- Dimensional Stability:	Passes
ASTM E 413	- STC (Sound Transmission Class)	50
ASTM E 989	- IIC (Impact Insulation Class)	52
ASTM E 2179	- ΔIIC (Delta Impact Insulation Class)	23

**Note E413, E 989, E2179 tested over 6" (bare) concrete slab without acoustical drop ceiling assembly

ASTM F 1514	- Heat stability of flooring:	Passes
ASTM F 1515	- Light stability of flooring:	Passes
ASTM F 925	- Chemical resistance:	Passes
NALFA/ANSI LF-01-2011	- Castor chair resistance	25,000 cycles
ASTM D 2047	- Coefficient of friction > 0.6	>0.6
ASTM D 570	- Water Absorbtion	0.04%
ASTM E 648	- Critical radiant flux >0.45 Watts / cm ²	Class 1
ASTM E 662	- Smoke Density	Passes
ASTM F 970	- Indentation resistance	Passes 250 PSI
ASTM F 1914	- Short term indentation:	Passes

4. Installation

4.1 - Adhesive: N/A. Do not use.

4.2 - Jobsite Conditions: Installation of the flooring should not commence until all other trades have completed their work. This includes cabinet installation, which should not be installed after Traverse Strataloc has been installed. The surface of Traverse should be protected during installation. No acclimation required prior to install. The temperature range within the work area for 48 hours prior to and during installation should be 50 degrees Fahrenheit to 100 degrees Fahrenheit. Temporary means of controlling temperature during this phase may be required. During storage, the cartons should be installed flat or on top of each other, but never on their edges or ends. Do not double-stack full pallets.

4.3 - Substrate Preparation:

4.3.1 Concrete subfloors should be prepared according to ASTM F 710, the standard practice for preparing concrete floors to receive resilient flooring. The subfloor should be smooth, hard, clean and dry. All concrete subfloors should be tested for alkalinity. Maximum allowable alkalinity in concrete PH 9. Corrective action should be taken if readings are outside of the range. Any residue of old adhesive, wax, oil and grease and should be removed, as should all dust and other foreign particles.

Although Traverse Strataloc is waterproof it is not a moisture barrier. All concrete subfloors should be tested for moisture to minimize risk of future mold growth underneath the product. Moisture testing should be conducted in accordance with ASTM F 2170, standard test for moisture emission rates in concrete using in-situ probes. RH in the concrete should be a maximum of 90%. Alternatively, moisture testing should be conducted according to ASTM F 1869, standard test method for measuring moisture emissions using anhydrous calcium chloride. Moisture vapor emission should not exceed 6 lbs / 1000ft / 24 hours. If outside of this range, use 6 mil polyfilm barrier prior to installation.

4.3.2 Installation over wooden subfloors should be conducted as follows:

- Subfloor panels must be minimum $\frac{3}{4}$ " thickness, single layer, dry and without evidence of warping or buckling.
- Ensure subfloor panels are properly nailed or screwed onto joists.
- Subfloor must be flat within $\frac{3}{16}$ " for every 10 linear feet. Fill any uneven areas with Portland based cementitious patching compound. Excessive undulation may result in inadequate locking of the locking mechanism and result in possible failure of the mechanism.
- $\frac{1}{4}$ " plywood flooring underlayment can be used at the determination of the installer if the above criteria are not met.

4.3.3 Existing flooring

Strataloc can be installed successfully over existing hard surface floorcovering. The flooring contractor or installer should determine the suitability of the subfloor prior to install. Strataloc should not be installed over existing floating flooring. Any existing flooring should be sound and well bonded to the substrate. Subfloor must be flat to within $\frac{3}{16}$ " for every 10 linear feet.

Installation over:

1. Resilient Flooring: Only install over sheet vinyl (not cushioned), VCT, Linoleum, LVT, Rubber flooring.
2. Any existing adhesives must be mechanically removed, taking care to ensure appropriate steps are taken when there is any doubt about the possible presence of asbestos.
3. For gypsum underlayments, follow manufacturers guidelines and follow steps outlined in ASTM F 2419.
4. Natural stone, porcelain and ceramic tile: Only install over well bonded tiles. Remove loose tiles and fill area with patching compound level with surrounding well bonded tiles. Grout lines should

be no deeper than 3/32" (2.5mm) and no wider than 1/8" (3mm). If outside this range, fill with cementitious patching compound.

5. Hardwood floors (not floating) should be smooth finish, with a maximum gap between boards (or total width of bevel across the uppermost portion of the gap at the surface: i.e. maximum gap) of 1/8" (3mm).
6. Underfloor heating should not exceed 85 degrees Fahrenheit maximum. During installation, ensure that temperature of subfloor is lowered and then gradually increased again post installation in 5 degree Fahrenheit increments.

4.4 – Installation: Inspect locking mechanism of each plank and remove any foreign particles that may be present. Set 1/4" spacers around perimeter. Install first two rows of planks together and away from the wall. Use a piece (roughly 1/3 plank) as a bridge plank to ensure the short sides of planks are aligned properly prior to engaging to prevent gaps appearing later between planks. Use a tapping block and tap long side of planks to ensure long sides are properly engaged; this also facilitates alignment of first two rows. For short side of plank, either press down vertically on the end joint or use a rubber mallet to gently tap (in vertical fashion) end joint into place on short side of planks until end joint is properly locked. A "snap" should be audible. Once first two rows are complete, push the whole assembly against the 1/4" spacers next to wall. Begin installing subsequent rows inserting long side of plank into adjacent edge of first row at a 30 degree angle. Fold the plank down to lock the mechanism. For the next plank, ensure ends of planks are butted together tight before attempting to lock end joint. End joint should be pressed in place or struck gently (in vertical fashion) with rubber mallet to ensure complete lock and smooth finish. Planks should be staggered at 12" intervals to ensure a natural appearance of a wood floor installation. 12" x 24" tiles should be staggered at 12" intervals for Ashland install to ensure no four corners meet. Take care not to damage the locking mechanism during installation. In the unlikely event that there are manufacturing defects present in the flooring, product with obvious manufacturing defects should not be installed and a Traverse flooring representative should be notified immediately.

When installing around tubs, showers, toilets etc., apply a bead of 100% flexible silicone at the surface to seal the gap between installed flooring and edge of tub / shower etc.

Note: Any permanent units such as cabinets and islands should be installed prior to installing Strataloc. Do not attempt to install cabinets for use as a permanent installation on top of previously installed Strataloc.

4.5 – Acoustical Underlayments: N/A as underlayment is pre-attached during manufacture.

4.6 - Disassembly: If disassembly is necessary, begin at the wall and remove Strataloc at an angle one complete row at a time to disengage long side of planks. Once row is removed, to disengage the short side of planks, slide each piece on a horizontal plane to disassemble the installation. Do not attempt to lift up the short side planks as the drop lock installation method is one way only. If short side will not disengage, the lock may not be completely engaged. Strike from above with a rubber mallet to engage the short side lock and then slide pieces apart on horizontal plane to disassemble.

4.7 - Additional Information: Floors can be damaged when not properly protected during the final stages of construction or refurbishment. Traverse should have all dirt and grit removed from its surface, then protect the flooring from damage using a non-staining product sufficient to withstand any use the area may experience post installation of the flooring. Never tape or bond any such protection to the newly installed flooring. Care should also be taken to not damage the flooring, when positioning furniture and equipment within the building.

5. Maintenance

For maintenance information, refer to Traverse Flooring maintenance instructions.

6. Warranty

For warranty information, refer to Traverse Flooring warranty information.