

## VISTA Collection SPC FLOOR INSTALLATION GUIDE

CONSIDERATIONS	RESIDENTIAL	COMMERCIAL
<b>SUBFLOOR FLATNESS TOLERANCES</b>	3/16" (4.76mm) in a 10' (3.05m) radius without any abrupt height variations and sloped no more than 1" (25.4mm) per 6' (1.83m)	3/16" (4.76mm) in a 10' (3.05 M) radius without any abrupt height variations and sloped no more than 1" (25.4mm) per 6' (1.83m)
<b>VAPOR BARRIER (6 MIL POLYFILM)</b>	<b>No</b> - A vapor barrier, such as a 6 mil polyfilm, is not required and should not be used	<b>No</b> - A vapor barrier, such as a 6 mil polyfilm, is not required and should not be used
<b>IS UNDERLAYMENT (PAD) REQUIRED?</b>	<b>No</b> - This product includes an integrated pre-attached pad. An additional underlayment pad is not required and should not be used.	<b>No</b> - This product includes an integrated pre-attached pad. An additional underlayment pad is not required and should not be used.
<b>ACCLIMATION REQUIREMENTS</b>	Not Required	A minimum of 48 hours
<b>TRANSITION REQUIREMENTS</b>	The use of a reducer, T-molding, end-cap, or stair-nosing is required when transitioning between different flooring-coverings, at appropriate terminations, and other suitable circumstances.	<b>General:</b> See "Residential" Requirements  <b>Large Areas:</b> Expanses greater than 100 ft. (30.48 M) in any direction will require a T-molding transition to divide the assembly into smaller sections.  <b>Adjoining Areas:</b> T-Molding is required to separate installations in adjoining spaces interconnected by a narrow opening, such as a doorway between rooms.
<b>INSTALLATION OVER EXISTING CERAMIC TILE FLOOR</b>	Filling Grout Lines Not Required Ensure compliance with substrate flatness tolerances	Filling grout joints required
<b>SUBSTRATE RH/MVER</b>	Not to exceed 85% RH or 8lbs MVER**	Not to exceed 85% RH or 8lbs MVER
<b>RADIANT HEAT</b>	Approved – Substrate surface temperature not to exceed 85°F	Approved – Substrate surface temperature not to exceed 85°F
<b>PERIMETER EXPANSION REQUIREMENTS</b>	1/4" (6.35mm) expansion at perimeter walls and vertical obstructions	3/8" (9.5mm) expansion at perimeter walls and vertical obstructions
<b>AMBIENT INTERIOR CONDITIONS</b>	50°F – 100°F / 40% – 60% Atmospheric RH	50°F – 100°F / 40% – 60% Atmospheric RH
<b>DEFINITION OF "WATERPROOF"</b>	Structural integrity of this product will not degrade due to contact with moisture/water**	Structural integrity of this product will not degrade due to contact with moisture/water**

\* Acclimation of this flooring should be considered a best work practice, but is generally not required in residential applications. Installation performed in extremely hot or cold conditions can cause the material to become too flexible or rigid, making the material difficult to install and potentially causing damage to the locking system.\*\*While this product is waterproof, it is not intended to manage moisture or for use as a moisture mitigation system.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### PRE-INSTALLATION

#### *Evaluate the Job Site*

##### Exterior

A proper inspection should be completed, prior to installation, by a qualified individual to ensure: Driveways and landscaping surrounding the building direct water away from the foundation. Gutters, down spouts, and drains are free of blockage, allowing runoff to flow freely away from the foundation. Crawl spaces have cross-ventilation air vents equaling at least 1.5% per 100 Sq. Ft. (9.3 Sq.m) of floor space. Crawl space elevations should measure a minimum of 18" (46cm) and should be insulated according to the latest building code requirements. The ground should be covered with a minimum 6-mil vapor barrier. This product should not be installed in locations where the space beneath the building structure is openly exposed to the outside elements. All permanent exterior doors and windows have been properly installed.

##### Interior

This product is only intended for interior use. Examine the installation site for faulty plumbing, including leaks from water heaters, dishwashers, washing machines, or any other water-bearing fixtures or pipes. This product is waterproof, but it is not a substitute for proper moisture management. This product cannot inhibit the growth of mold or prevent structural problems associated with, or caused by flooding, excessive moisture, alkalis in the substrate, moisture vapor emissions, or conditions arising from hydrostatic pressure. Substrate moisture issues should be addressed and corrected prior to installation. Permanent HVAC system should be in full operation at least one week prior to installation. Room temperature should be maintained between 50°F and 100°F (10°C and 38°C) at least 48 hours before installation, during installation, and indefinitely thereafter.

All other trades must complete their respective work before installing this product.

*ATTENTION: Mold and mildew grow only in the presence of moisture. Moisture issues on the project should be addressed and corrected prior to installation. Please visit [www.epa.gov/mold](http://www.epa.gov/mold) for information about safely preventing and removing mold, mildew, and other biological pollutants.*

#### *Evaluate And Qualify Your Substrate*

##### Approved Substrates

All substrates, regardless of composition, must be in strict compliance with the following guidelines:

- **Grade:** This product is suitable for above-grade, on-grade, and below-grade applications.
- **Floor Flatness:** Substrates must be flat within 3/16" (4.76mm) in a 10' (3.05m) radius.
- **Floor Levelness:** Substrates must not slope more than 1" (25.4mm) per 6' (1.83m) in any direction.
- **Smooth:** Substrates shall be smooth and free of irregularities, roughness, excessive texture, or abrupt changes in elevation.
- **Dry:** Substrates must be free of excess moisture. Concrete substrates must measure no more than 8lb MVER per 1,000 Sq. Ft. in 24 hours in accordance with ASTM F1869, or 85% RH when measured in accordance with ASTM F2170, with alkalinity levels between 7 and 10. Wood substrates must not exceed 14% when measured with an appropriate moisture meter.
- **Clean:** Substrates must be free of any contaminants, bond-breakers, deleterious substances and other foreign materials that could reduce adhesion, impair performance, affect the rate of moisture dissipation from the substrate, or cause a discoloration of the flooring. This would include, but not limited to, dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive remover, film-forming curing compound, silicate penetrating curing compound, dissipative curing compounds, sealing compound, hardening compound, parting compound, alkaline salts, excessive carbonation or laitance, mold, and mildew.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### PRE-INSTALLATION (CONT.)

#### *Evaluate And Qualify Your Substrate*

#### Approved Substrates

- **Structurally Sound:** Structures must be free from flaw, deficiency, defect, decay, or deterioration and in compliance with all applicable building codes.
- **Free of Excessive Deflection:** The maximum allowable deflection of the structure or substrate must not exceed L/360.

#### CONCRETE

- **General Conditions:** All concrete floors, regardless of age or grade level must be properly cured and prepared in accordance with the most current version of ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring). Concrete substrates must have compression strength of 3,000 psi or greater. Below-grade and on-grade concrete substrates must have a suitable and uncompromised vapor retarder properly installed beneath the slab (ASTM E1745).
- **Contaminant Removal:** Non-chemical methods for removal, such as scraping, abrasive cleaning, grinding, bead or shot blasting, including methods described in ASTM D4259 (Standard Practice for Abrading Concrete), may be used on pre-existing slabs with deleterious residues or other contaminants. The use of adhesive removers or solvents (including soy and citrus type products) is strictly prohibited.

- **Moisture and Alkalinity:** Moisture and alkalinity tests should be performed on all concrete substrates regardless of grade level or age of slab. Perform either ASTM F2170 In-Situ Relative Humidity (RH) test or ASTM F1869 Calcium Chloride Moisture Test. RH Test results should not exceed 85% relative humidity. The Calcium Chloride Test for moisture should measure no more than 8 lb per 1,000 Sq. Ft. in 24 hours Moisture Vapor Emission Rate (MVER). All moisture tests should be conducted prior to installation to ensure that moisture is at recommended levels. If test results exceed recommended tolerances for moisture, the area must be allowed to further dry to an acceptable level or re-mediated using a moisture-mitigation system before installing this product. Electronic meter testing is not a replacement for a Calcium Chloride Test or Relative Humidity Test. Perform pH test per ASTM F710 to determine alkalinity of the slab, pH tests for alkalinity levels should register between 7 and 10. Rinsing and vacuuming with clean, potable water is the best way to lower surface pH, but it will not prevent future issues. Do not acid rinse concrete floors to neutralize pH. Some moisture-mitigation systems are designed to control pH. It is highly recommended that substrate moisture and pH testing be conducted by an International Concrete Repair Institute (ICRI) certified technician.

- **Moisture Mitigation:** Concrete substrates that exceed the maximum moisture value must be brought into compliance prior to the installation of this product. It is recommended the use of products that meet the criteria listed in ASTM F3010 (Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings.)



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### PRE-INSTALLATION (CONT.)

#### *Evaluate And Qualify Your Substrate*

#### Approved Substrates

##### RADIANT HEAT ASSEMBLIES

Radiant heating systems must be cast a minimum of 1/2" (12.7mm) below the surface of the substrate and should be operating at least two weeks before installing this product. 48 hours prior to installations, set the heating system temperature to 68°F (20°C). The temperature of the radiant heat floor may be increased gradually 72 hours after installation, but the surface temperature of the substrate should never exceed 85°F (29°C). Contact the manufacturer of your radiant heating system for further recommendations.

##### PLYWOOD, OSB, & PARTICLEBOARD

Wood substrates must be A.P.A. approved with a minimum grade of "BB" or "CC" and be well fastened to the structure. All wood substrates must be checked for moisture. Even if obvious signs are not present, the material should be tested using the appropriate moisture meter; moisture levels should not exceed 14%. Obvious signs of moisture issues may include warping, peaking, degradation of the integrity of the substrate, rusted fasteners, and rusted floor registers.

##### CERAMIC TILE, TERRAZZO, RESILIENT TILE, NON-CUSHION SHEET VINYL, & METAL

Pre-existing coverings must be well bonded to the underlying substrate. When installing this product in commercial settings, fill in grout joints and imperfections on ceramic tiles, quarry tiles, terrazzo, and similar floors with an appropriate floor patching compound. In most cases, filling grout joints is not required for residential applications. Grout joints will need to be filled in bonded applications. Always ensure compliance with substrate flatness tolerances.

#### Unapproved Substrates

The substrates listed below are not approved and must be removed, including any underlying adhesives, prior to installation. Pre-existing adhesives must be removed so all that remains is a thin, smooth film. The remaining film should be properly encapsulated using an appropriate floor patching compound or completely removed by a non-chemical method such as shot blasting or grinding.

- Carpeting/Carpet Pad
- Carpet or Carpet Cushion
- Cushion Back Sheet Vinyl
- Floating Floors
- Engineered Hardwood Over Concrete
- Solid Hardwood Over Concrete
- Parquet Over Concrete
- Sleeper Substrates

**NOTE:** Various federal, state, and local government agencies have established regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations. Do not sand, dry sweep, dry scrape, drill, saw, bead blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cut-back" adhesive, or other adhesives. These products may contain 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 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. The RFCI's Recommended Work Practices for Removal of Resilient Floor Covering are a defined set of instructions addressed to the task of removing all resilient floor covering structures. For further information, contact the Resilient Floor Covering Institute website at [www.rfci.com](http://www.rfci.com).



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### PRE-INSTALLATION (CONT.)

#### *Evaluate And Qualify Your Substrate*

#### **Substrate Preparation**

This product must be installed on a properly prepared substrate. The selection of preparation products is dependent upon the circumstances of each project. The application of all products must be performed in strict accordance with the respective manufacturer's instructions. Responsibility for the performance or suitability of any preparation or ancillary product including, wood underlayments, moisture mitigation/management systems, floor patching compounds, self-leveling underlayments, sealers, primers, and other such items rests with the manufacturer of the ancillary product or the flooring contractor.

*This product includes an integrated pre-attached pad, use of additional underlayment pad is not permitted.*

#### **Material Storage, Acclimation, And Inspection**

- **Warehousing:** Store all materials flat and off the floor in a climate controlled, weather-tight space between 50°F and 100°F (10°C and 38°C). Do not double-stack pallets.
- **Delivery:** Make sure materials are well secured during transit to avoid preventable damage.
- **Handling:** Always exercise caution when handling cartons, being careful not to damage material.
- **Job Site Storage/Staging:** Immediately remove any shrink-wrap and place materials within the project to acclimate to service conditions. Store all materials flat, fully supported, and placed into well-aligned stacks. Make certain the stacks are no more than six (6) cartons high and at least 4" apart. Cartons should never be stored or left standing on end. Keep cartons away from heating/cooling ducts, direct sunlight, or any other source of extreme temperatures. If permanent HVAC is not yet in operation, temporary means should be used to maintain the noted temperature and RH.

- **Temporary Heating:** Only suitable temporary HVAC systems should be used, which may include electrical heat or direct-vent heating systems. The use of any propane or kerosene forced-air heaters, any vent-free or ventless heaters, and/or any other type of unvented fuel-burning heating systems is not permitted. Temporary heating must be in constant operation until a permanent HVAC system is fully operational. It is recommended that projects installed while using temporary heating have supporting documentation of the environmental conditions before, during, and after the installation.

- **Acclimation:** Acclimation of the flooring material is recommended for all projects; however, only commercial installations require acclimation. The flooring material, ancillary products, and the project area should be acclimated for as long as necessary to reach service-conditions. Acclimation should be done within climate-controlled structures between 50°F and 100°F (10°C and 38°C) and 40%-60% ambient RH for a minimum of 48 hours before installation, during installation, and indefinitely thereafter.

- **Confirmation:** Confirm that the material is of the correct style, color, quantity, and run number. Locate the run number on the short end of each carton and verify that all the materials are of the same run number. Minor shade variations within the same run number contribute to the natural look of this product. To avoid noticeable shade variations, do not install material of different run numbers across large expanses.

- **Inspection:** Prior to installation, check material for defect or damage.

- **Notification:** Always report any damage, concerns, or discrepancies to the retailer from which the floor was purchased. If any issues have been identified, the installation should not progress until all matters have been resolved.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### PRE-INSTALLATION (CONT.)

#### *Evaluate And Qualify Your Substrate*

#### Prepare The Project

##### 1. Check the HVAC:

Confirm the structure's HVAC system is in full operation. The building should be maintained at service conditions between 50°F and 100°F (10°C and 38°C) at least 48 hours before installation, during installation, and indefinitely thereafter.

##### 2. Acclimation:

Acclimate the materials, and the job site for as long as necessary to reach service-conditions.

##### 3. Remove Floor Moldings:

Quarter round and/or wall base should be carefully removed before installation begins.

##### 4. Remove Unapproved Substrates:

Unapproved substrates and adhesives cannot be installed over and must be removed.

##### 5. Evaluate the Substrate:

Check the substrate for flatness, excess moisture, levelness, and ensure the structure is sound and free of excessive deflection.

##### 6. Perform Substrate Preparation:

Perform all necessary preparations to ensure the project is in compliance with all aforementioned specifications.

##### 7. Door Jambs & Casings:

**A** - Wood door jambs and casings should be undercut so that this product will fit neatly beneath, concealing the expansion space.

**B** - Metal door jambs may need to be left undisturbed. In such instances, this product must be cut around the jambs and casings, leaving the appropriate expansion space. Fill the expansion space with a coordinating premium waterproof flexible sealant, such as 100% silicone, upon completion of the project.

##### 8. Clean the Substrate:

Sweep and vacuum the substrate to remove all dust, dirt, and debris.

##### 9. Perform Final Qualification:

Perform a final acceptance inspection of the substrate and project. Make sure the substrate is completely clean, dry, smooth, flat, and all necessary preparations have been properly completed and documented. Installation of flooring acknowledges acceptance of material and project conditions.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### INSTALLATION

#### Procedures

#### 1. LAYOUT

The project layout should be discussed with and approved by the architect, designer, general contractor, end-user, and/or homeowner prior to installation of material.

#### 2. BALANCE THE ROOM

Balance the layout by measuring and marking the center-point on both sides of the room. Connect the marks using a chalk line to create the centerline of the area. (For tile format installations, an additional perpendicular centerline may be necessary to ensure the room is properly balanced on all four sides.)

#### 3. ESTABLISH THE STARTING LINE

Starting at the centerline, assemble a column of material working toward the starting wall; continue until no additional full-width pieces can be laid. Place a mark on the substrate along the long edge of the last full-width piece, closest to the starting wall. Snap an additional chalk line at this location while ensuring that it is perfectly parallel to the centerline. (Note: If the perimeter pieces are less than half the width of a piece, offset the starting line by shifting away from the starting wall by a distance equal to half the width of a piece.)

#### 4. POSITION THE FIRST ROW

Place full pieces end-to-end along the starting-line with the long tongue-edge facing the starting wall, without engaging the short joints.

#### 5. MARK & CUT FIRST ROW

To transfer the contours of the starting wall onto the first row, a "scribing block" will be necessary. To create a scribing block, first determine the size needed by measuring the width of the flooring (excluding the locking profiles) plus an additional 1/4" for a residential project or 3/8" for a commercial project. Cut a piece of scrap flooring, plywood, or similar material to this measurement. Place the scribing block against the wall; mark a line at the edge of the scribing block. Slide the scribing block along the starting wall while continuing to mark. Carefully cut the marked material on the line, these pieces will be used for row #1.

#### 6. DETERMINE PROPER STAGGERING

Maintain a minimum 6" short-joint stagger from row-to-row throughout the entire installation. (Tile format installations should be staggered in a brick-laid pattern with stagger equal to half of a tile.)

#### 7. SEQUENCE OF INSTALLATION

Installation will move from left to right, beginning in the left corner while facing the starting wall. The installation will alternate back and forth between rows one and two, for the first two rows only.

#### 8. INSTALL STARTING ROWS

Place the first piece of row #1 several inches from the starting wall with the long cut edge facing the starting wall. Cut the first piece of row #2 to one-third its length. Interlock the long tongue-edge of the first piece of row #2 into the long groove-edge of the first piece of row #1, ensuring that there are no gaps. Using a hammer and a tapping block, carefully tap along the long groove-edge to fully engage the joints. Make certain the long joints are engaged before tapping down the short joints using a soft-faced hammer. Continue installing rows #1 and #2 until you reach the opposite wall and cannot install another full-length piece.

#### 9. INSTALL LAST PIECES OF ROWS 1 & 2

Measure, mark, and cut the final pieces of rows #1 and #2 ensuring both sides of the rows have proper expansion space. Residential projects require a 1/4" expansion space and commercial projects require a 3/8" expansion space. Place appropriately sized spacers along the left, right, and starting walls. Slide the assembly over and against the spacers along the starting wall.

#### 10. INSTALL REMAINING ROWS

Install the remaining material, one row after another. Always tap the long joint tight using a tapping block before tapping the short joint down using the soft-faced hammer. Maintain the required stagger throughout the installation.

#### 11. INSTALL THE FINAL ROW

Using the scribing block; mark, cut, and install the final row. Always ensure proper expansion is provided. Use a pull bar to fully engage the long joints. Do not use the pull bar on the short edges.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### FINISH THE PROJECT

#### *Procedures*

- **Trim Moldings:** Remove all spacers and reinstall moldings and trim, being sure not to restrict the assembly. This product is a floating floor and must be allowed to expand and contract freely. It should not be nailed or fastened through the flooring and into the substrate or structure.
- **Transitions:** A reducer, T-molding, end-cap, or stair-nosing is required when transitioning between different flooring-coverings, at appropriate terminations, and other suitable circumstances. Commercial projects require that a T-molding be used in areas greater than 100 ft. (30.48 M) in any direction to divide the assembly into smaller sections. Commercial projects require that T-Molding is used to separate installations in adjoining spaces interconnected by a narrow opening, such as a doorway between rooms.
- **Clean-up the Job site:** Remove any product scraps and tools from the job site. Sweep and damp mop the flooring to ensure all dust, dirt, and debris are removed from the surface of the finished flooring.
- **Wet-Area Expansion Spaces:** Fill expansion spaces around potential wet areas with premium waterproof 100% silicone sealant.
- **Protect the Floors:** Newly installed flooring must be protected from damage of other trades.
- **Reset Fixtures and Furniture:** Set fixtures and furniture back in place, ensuring that objects are not slid across the surface of the new flooring.

### ROUTINE CARE & MAINTENANCE

#### *Procedures*

- Sweep, dust mop or vacuum regularly.
- Do not use vacuums with any type of beater bar assembly.
- Do not use steam cleaners/mops.
- While cleaning, do not flood floor or subject to standing liquids.
- Do not use vinegar, polishes, waxes, oil soaps, abrasive cleaners, harsh detergents, “mop and shine” products or solvents.
- Always remove standing water, pet urine and other liquids promptly. Follow with a pH neutral cleaner.
- Lightly damp mop with pH neutral cleaner. Remove excess soil by carefully scrubbing with a soft nylon brush or eraser sponge and a pH neutral cleaner.
- Remove scuffs using a pH neutral cleaner and a soft nylon brush or eraser sponge.
- Heavily soiled floors may require an occasional deep cleaning using a pH neutral cleaner and a low-speed buffer with a red or white non-aggressive scrubbing pad and agitate the solution throughout the space. Remove the dirty residue by damp mopping with clean water.



## VISTA Collection SPC FLOOR INSTALLATION GUIDE

### ROUTINE CARE & MAINTENANCE

#### *Procedures*

- Do not expose this product to intense direct sunlight for prolonged periods. Direct sunlight may cause issues including, but not limited to, fading, lifting, or joint separation. Protect this product from direct sunlight using window treatments or UV tinting on windows. This product is not recommended for use in sun rooms.
- Use non-staining walk-off mats at all outside entrances. Avoid the use of rubber-backed mats, as certain rubber compounds can permanently stain vinyl.
- In order to prevent indentations and scratches, provide glass, plastic, felt, or other non-staining cups with flat under-surfaces not less than 2" wide for the legs of heavy furniture or appliances.
- Equip swivel-type office chairs and other rolling furniture with broad-surface, non-staining casters at least 2" in diameter. Caster wheels should be appropriate for use with hard-surface resilient flooring products.
- Hard-surface protective mats are specifically designed to allow office chairs to easily roll across a surface while protecting the underlying floor covering from damage. Hard-surface protective mats are recommended in areas of frequent or heavy usage and especially in areas where castor chairs are utilized. Prior to placing a new protective mat, the floor covering should be completely clean and free from dust, dirt, and debris. Protective mats that have become damaged should be immediately replaced to provide continued protection and prevent additional damage.
- Remove small diameter buttons from the legs of straight chairs and replace with metal or felt glides that have bearing surfaces no less than 1" in diameter.