

# INSTALLATION INSTRUCTIONS

## Siena LVT Planks & Tiles (Glue Down)

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### Job Site Conditions

The installation of flooring should be scheduled after the work of all other trades has been completed. Areas to receive resilient flooring shall be clean, adequately lighted, fully enclosed, weather tight, and climate controlled by permanent HVAC system for at least 10 days prior to installation and thereafter to provide a constant temperature. Proper acclimation of the room, substrate, flooring materials and adhesives at a constant and maintainable temperature is critical to the success of the installation process. Temperature variation before during and for the first 48 hours after installation can impact adhesive cure time, affect the size of the flooring material and increase the potential for indentation and or adhesive displacement. The substrate, flooring materials and adhesive are required to be acclimated within the areas of intended installation at a constant temperature between 65°F to 85°F for 48hrs prior to installation. The selected temperature should be maintained in areas to receive flooring with the building's permanent HVAC system. Salamanders and other temporary heating or cooling devices should not be used. The constant temperature held during acclimation and installation should be maintained for 48 hours following installation, thereafter the interior space should maintain room temperatures in the range of 55 to 85° F. Flooring installed with TAJ-1095 adhesive shall not be exposed to heavy traffic or heavy rolling loads for 24 hours following completion. No maintenance procedures should take place until the adhesive has cured for a minimum of 72 hours. Eco Bond adhesive allows immediate foot traffic. If emergency conditions require the movement of equipment or furniture, the flooring should be protected with heavy planks or a minimum of ½" thick plywood to prevent damage.

**NOTE:** Flooring materials and adhesives should be on site with the areas of intended installation a minimum of 48 hours prior to installation allowing materials to acclimate.

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### Suitable Substrates

**Concrete Substrate:** Concrete substrate shall conform to requirements of ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring).

Concrete subfloors shall be steel troweled finished smooth, flat and level. Concrete shall be wet cured for a minimum of 30 days to 3,500 psi. Flatness of concrete shall be  $\pm 1/8$  in a 10'-0" radius. Do not apply any type of coatings, surface sealers, hardeners, or curing membranes to the surface of the concrete. These materials will prevent proper bond of the floor covering adhesive. Minor cracks, chips, and spalls shall be patched with cement-based patching material, i.e. Ardex or Mapei. Level high spots by grinding or sanding. Any required leveling shall be done with cement-based underlayment, minimum 3,500 psi, i.e., Ardex or Mapei. Patching and underlayment material shall be applied in strict accordance with manufacturer's specifications and installation instructions.

- **TAJ Eco Bond Adhesive:** Maximum 8.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 90% per ASTM F2170 In Situ Relative Humidity Test. pH of 5-11 is acceptable.
- **TAJ-1095 Adhesive:** Maximum 10.0 lbs. of moisture per 1,000 sf / 24 hours per ASTM F1869 Calcium Chloride Tests or a max RH of 95% per ASTM F2170 In Situ Relative Humidity Test. pH of 5-12 is acceptable.

If the concrete is contaminated with any type of sealer, hardener, curing membrane, paint, oil, grease, adhesives, and any other type of penetrating material it should be removed thoroughly by bead blasting. Sanding is not adequate, and chemicals should not be used to accomplish removal. After concrete preparation has been completed, sweep and vacuum surface thoroughly to remove all miscellaneous dirt and contaminants. It is possible that joints of existing resilient flooring may telegraph through tiles. This is a common occurrence and is not a product defect.

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### **Unsuitable Substrates**

Particleboard, chipboard, flake board, hard board, soft or lightweight aggregate concrete or gypsum underlayment are not the most suitable substrates for installation of vinyl flooring and must use only Eco Bond Adhesives under ideal circumstances only. Minimum 3/8" thick APA graded plywood, properly installed, is a suitable underlayment. Contact us for recommendations regarding all other types of substrates.

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### **Hospital Beds**

In the event that LVT is to be used in patient rooms the area under the beds must be installed using the recommend Eco Bond Adhesive System (no substitutions). This adhesive will tolerate point loads within 4 hours of installations.

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### **Layout**

Establish chalk guidelines, which are at right angles to each other from which the tile/planks are to be laid. Measure the area to find the best starting point for maximum size perimeter cuts.

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### **Installation**

Before beginning Installation check actual boxes of all tiles/planks to be sure that correct color, pattern, and quality has been shipped for your specific installation. Do not mix dye lots in the same area.

- Inspect face and backs of all tiles or planks to be insure there is no damage or defects. Do not install or glue tile with visible defects. Tiles or planks that may have minor defects on one side or at edges that can be used for trimming and fitting at walls and columns.
- Lay tiles or planks starting at the center of the room working towards the walls. Lay out following the directional arrows on back of tiles.
- The perimeter tile or planks must be cut up to the wall from the field tile or plank. The perimeter tile or planks should be accurately scribed against the wall and any projections coming out from the walls. Cut product from the face side with a sharp knife. Do not jam tiles. Keep foot traffic off laid area while installing to prevent shifting.
- Install Siena LVT Planks and Tiles with Eco Bond LVT adhesive system or TAJ-1095 adhesive using a 1/16" x 1/16" x 1/16" square notched trowel. For non-porous sub-floors, use a 1/16" x 1/32" x 1/32" U notched trowel.
- When using the "wet-set" method of installation test the adhesive to see if it has "strings" and is moist to the touch before installing the floor covering. Check periodically to make sure there is full transfer of adhesive to the back of the floor covering material.
- Please note complete instructions on adhesive containers.
- All corners of tile or planks shall be butted, not staggered. Planks are to be staggered for uniform and natural look. Square tiles will have an arrow on the back of the tile or a line. The square tiles should be installed with the arrow or lines at 90-degree angles to each other in order to accomplish uniformity of color and pattern. Layout tile or planks loosely a minimum of 15 to 20 tiles or planks, to verify uniformity of color and pattern.
- If the tile or planks cannot be installed with a uniform appearance, do not continue the installation. Contact us for assistance.
- Fit tile or planks carefully and neatly to all pipes, columns and other obstructions without voids, especially

where there will be no base installed.

- Within one hour after installation, roll the tile or planks thoroughly in both directions with a 100-pound roller, to properly seat the tile or planks into adhesive. Check tiles two to three hours later and roll again.
- Fit tile or planks properly at walls. Do not over-fit tile or planks as that will cause them to buckle.
- During installation, remove any spilled adhesive or adhesive that may be squeezed through joints with a clean white rag dampened with soapy water. If adhesive has set prior to removal with a damp rag, it can be removed with mineral spirits solvent.
- Foot traffic is allowed after installation is completed, but heavy traffic should be not allowed for 24 hours if using TAJ-1095 adhesive.
- Floor surface should not be cleaned until 72 hours after installation is completed when using the TAJ-1095 adhesive – or 4 hours if using Eco Bond LVT adhesive system.

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## **Protection**

1. The floor is designed to properly support a static load of 1100 psi. Furniture, equipment, and rolling loads should not exceed these limits. If they do, legs of such equipment and furniture should be properly supported to prevent damage to tile or planks. Protect floor surface with wood or sheets of plywood whenever heavy equipment or furniture must be moved
2. Chair pads are recommended under chairs with roller casters.
3. Felt pads are recommended under chairs with sharp or unprotected edges to prevent scratching.