

Construction Specification

SECTION 096519 – RESILIENT TILE FLOORING

PART 1 – GENERAL

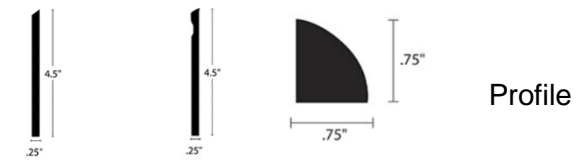
1. SUBMITTALS
 - a. Product Specification
 - b. Specification for Adhesive
 - c. Floor Layouts
 - d. Samples
 - e. Schedule
 - f. Qualifications for Installer
2. CLOSEOUT SUBMITTALS
 - a. Maintenance Instructions
 - b. Warranty
3. QUALITY ASSURANCE
 - a. Environmental: FloorScore® Certified
 - b. Installer Qualifications: Installer who has been trained in the installation of resilient sheet flooring.
 - c. Mockups: Install 100 sf of product at designated location for architect review and approval.
4. MATERIAL STORAGE AND HANDLING
 - a. Store tiles on a flat surface and squarely on top of one another.
 - b. Store away from vents and direct sunlight.
 - c. When palletizing, first place a 5/8" or thicker plywood on the pallet. Stack 2 rows high side by side with no airspace between. Then quarter turn for 2 rows side by side. Do not exceed 12 boxes high. If you are stacking pallets, use a 1" thick plywood in between pallets.
 - d. Store in protected dry conditions between 65 and 85 degrees.
5. SITE CONDITIONS
 - a. The permanent HVAC system must be on for 7 days prior to, during and after installation between 65 and 85 degrees Fahrenheit or 18 to 29 degrees Celsius.
 - b. Material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation.

PART 2 – PRODUCTS

6. TESTING REQUIREMENTS
 - a. Slip Resistance ASTM D2047: ADA Compliant
 - b. Static Load Limit ASTM F970: 1500 psi
 - c. Residual Indentation F1914: passes , 8%
 - d. Flexibility ASTM F137: Passes
 - e. Resistance to Heat ASTM F1514: Passes
 - f. Resistance to Light ASTM F1515: Passes
 - g. Resistance to Chemicals ASTM F925: Passes
 - h. Radiant Flux ASTM E648: / 0.45 W/sq. cm., Class I

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- i. Smoke Density ASTM E662: Passes, <450
- 7. RESILIENT TILE
 - a. Manufacturer: Patcraft
 - b. Product: bounce back 6.5, I208V
 - c. Construction:
 - d. Class ASTM F1700: ASTM F2772
 - e. Wear-layer Thickness: 39 mil
 - f. Overall Thickness: 0.255905511811024 in (6.5 mm)
 - g. Nominal Dimensions: 0 x 0
 - h. Finish: UV Urethane
 - i. Backing Class:
 - j. Installation: Glue Down
- 8. INSTALLATION MATERIALS
 - a. Adhesives:
 - i. Shaw 4100 spreadable 95% RH 8 lbs pH 10
 - ii. S150 spray 95% RH NA pH 11
 - iii. Shaw 4151 for high moisture 99% RH 10 lbs. pH 12
 - iv. Shaw 200 for low demand areas 85% RH 5 lbs pH 5-9
 - b. Weld Rod
 - i. Heat
 - ii. Chemical
 - c. Primer: Shaw 9050
 - d. Leveling and Patching Compounds: Use only Portland-based patching and leveling compounds. Do not install resilient flooring over gypsum-based patching and/or leveling compounds.
 - e. Take Abatement Coating: Shaw 6200
 - f. Barrier Coat Floor Encapsulation: Shaw 9000
 - g. Cove Base Accessories:
 - i. Angle Profile
 - ii. Detail Profile
 - iii. Quarter Round
 - h. Floor Polish



PART 3 – EXECUTION

- 9. EXAMINATION
 - a. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.
 - b. Proceed with installation after any unsatisfactory conditions have been corrected.
- 10. PREPARATION
 - a. Concrete substrates should be tested for Internal Relative Humidity according to ASTM F 2170 and must not exceed 90% RH.
 - b. The PH of the concrete sub-floor must be between 7 and 10.

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- c. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.
- d. Concrete floors shall be flat and smooth within 1/8" in 6 feet or 3/16" in 10 feet.

11. INSTALLATION

a. LAYOUT AND INSTALLATION

- b. Install using conventional tile and plank installation techniques. Plank products should have a minimum of 6 to 8" seam stagger.
- c. Center rooms and hallways so borders are not less than half of a tile or plank.
- d. Work out of multiple boxes at the same time.
- e. In hallways and small spaces, work lengthwise from one end.
- f. Ensure cut edges are always against the wall.
- g. To cut products, score the top side of the material with a utility knife. Bend the product and finish the cut through the back side. It may be necessary to use a heat gun to cut around vertical obstructions. Allow the heated product to return to room temperature before installation.
- h. If you cut the product into a fine point, it may delaminate. Use an ethyl cyanoacrylate-based super glue to fuse the points together. Clean all glue from the top surface immediately. Alcohol-based super glues may cause the vinyl to swell.
- i. Roll the plank or tile with a 3-section 100 lb. roller. Re-roll the floor within the working time of the adhesive. Continue to roll the floor throughout the working day to ensure a proper bond.
- j. Use floor protection after installation. DO NOT use a plastic adhesive-based protection system.

12. MAINTENANCE

a. Initial Maintenance

- i. Sweep, vacuum or dust mop to remove dirt and grit.
- ii. If needed, add neutral cleaner to cool water following the manufacturer's instructions.
- iii. Scrub with a low-rpm machine or auto scrubber. Use a red pad or brush.
- iv. Never use brown or black pads (too aggressive and can damage the product)
- v. Remove the cleaning solution with a wet-dry vacuum or auto scrubber until the floor is dry.
- vi. Rinse the floor with clean water. Repeat the rinse process if necessary to remove all haze.

b. Routine Maintenance

- i. Sweep, vacuum or dust mop to remove dirt and grit.
- ii. Add neutral pH cleaner to cool water following the manufacturer's instructions.

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- iii. As needed, scrub with a low-rpm machine or auto scrubber to retain appearance. Use a red (light scrubbing) pad and neutral cleaner following the manufacturer's instructions.
- c. Preventative Floor Care
 - i. Use walk-off mats that are as wide as the doorway and long enough for soil load and weather conditions.
 - ii. Use mats with a non-staining backing.
 - iii. Floor protectors should be used on all furniture legs.
 - iv. The surface area of the floor protectors should be no less than 1" in diameter.
- d. Full maintenance instructions will be provided by the manufacturer.

END OF SECTION 096519

Updated 6/28/18 JR