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| **Revision History** |
| **Revision Date** | **Section / Nature of Revision** |
| **7/25/24** | Document Issued |

**PART 1 – GENERAL**

1.1 RELATED DOCUMENTS

* 1. Division 01 Specification Sections

1.2 SUMMARY

1. This section relates to resilient tile flooring.

1.3 PRE-INSTALLATION MEETING

1. Conduct a preconstruction meeting at the job site prior to the resilient tile installation. To be scheduled and coordinated by the general contractor to include the subcontractor, the architect, and the owner’s representatives.

1.4 SUBMITTALS

1. Product Specification
2. Product Specifications for the Adhesives
3. Shop Drawings
4. Layout Pattern Plans
5. Samples
6. Schedule
7. Qualifications of the Installer

1.5 CLOSEOUT SUBMITTALS

1. Maintenance Instructions
2. Warranty

1.6 QUALITY ASSURANCE

1. Environmental: FloorScore® Certified
2. Installer Qualifications: Installer who has been trained in the installation of resilient tile flooring.
3. Mockups: Install 100 square feet of product at designated location for architect review and approval prior to installing any more tiles.

1.7 MATERIAL STORAGE AND HANDLING

1. Store tiles on a flat surface and squarely on top of one another.
2. Store away from vents and direct sunlight.
3. When palletizing, first place a 5/8” or thicker plywood on the pallet. Stack two rows high side by side with no airspace between. Then quarter turn for two rows side by side. Do not exceed 12 boxes high. If you are stacking pallets, use a 1” thick plywood in between pallets.
4. Store in protected dry conditions between 65 and 85 degrees.

1.8 SITE CONDITIONS

1. The permanent HVAC system must be on for seven (7) days prior to, during and after installation between 65- and 85-degrees Fahrenheit.
2. Material and adhesive must be acclimated to the installation area for a minimum of 48 hours prior to installation.

**PART 2 – PRODUCTS**

2.1 TESTING REQUIREMENTS

* 1. Slip Resistance ASTM D2047: ADA Compliant
	2. Static Load Limit ASTM F970: modified 1500 psi
	3. Residual Indentation F1914: passes, 8%
	4. Resistance to Heat ASTM F1514: Passes
	5. Resistance to Light ASTM F1515: Passes
	6. Resistance to Chemicals ASTM F925: Passes
	7. Radiant Flux ASTM E648: / 0.45 W/sq. cm., Class I
	8. Smoke Density ASTM E662: Passes, <450

2.2 RESILIENT TILE

1. Manufacturers: Shaw Contract, Milliken, Mohawk, Tarkett, Patcraft, Interface
2. Product: luxury vinyl tile
3. Construction: commercial luxury vinyl tile
4. Class ASTM F1700: class III printed film vinyl tile, type B (embossed)
5. Wear-layer Thickness:0.020 in - 20 mil (0.5 mm)
6. Overall Thickness: 0.098 in - 2.5 mm, maximum 5mm
7. Nominal Dimensions: square or rectangular shapes
8. Finish: urethane topcoat with aggregate.
9. Installation: adhesive
10. Color selections shall be from manufacturer’s large-scale patterns and multiple tones selections.
11. Tile finish shall not have heavy embossing.
12. The manufacturer is required to have a published reclamation program for their resilient tile product at the end of its useful life. This should be at no charge to the owner.
13. Product must have an Environmental Product Declaration and Health Product Declaration.
14. The manufacturer’s written product warranty shall be a 15-year prorated minimum covering material and labor for the life of the warranty.

2.3 INSTALLATION MATERIALS

A. Adhesive:

1. The manufacturer’s recommended high moisture adhesive is preferred in all applications unless noted otherwise. RH - (99%) [ASTM F2170] pH – up to 12 MVER – up to 12.
2. For facilities with documented under-slab moisture issues, the flooring subcontractor has the option described to explore while considering other project parameters. The owner and contractor will approve the recommended solution: Manufacturer’s recommendation and application of a high moisture primer with the following specifications: RH - (99%) [ASTM F2170] pH – up to 14 MVER – up to 14 [ASTM F1869].

B. 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. When using a high moisture adhesive, a high moisture patching material is to be used.

C. Cove Base Accessories:

1. Angle Profile
2. Detail Profile

**PART 3 – EXECUTION**

3.1 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.

3.2 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.

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” fall in 6 feet or 3/16” in 10 feet.

3.3 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 of the space.

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.

* 1. 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.
	2. Use floor protection after installation. Do not use a plastic adhesive-based protection system.

3.4 MAINTENANCE

A. Initial Maintenance:

1. Sweep, vacuum or dust mop to remove dirt and grit.
2. If needed, add neutral cleaner to cool water following the manufacturer’s instructions.
3. Scrub with a low-rpm machine or auto scrubber. Use a red pad or brush.
4. Never use brown or black pads as they are too aggressive and can damage the product.
5. Remove the cleaning solution with a wet-dry vacuum or auto scrubber until the floor is dry.
6. Rinse the floor with clean water. Repeat the rinse process if necessary to remove all haze.

B. Routine Maintenance:

1. Sweep, vacuum or dust mop to remove dirt and grit.
2. Add neutral pH cleaner to cool water following the manufacturer’s instructions.
3. 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:

1. Use walk-off mats that are as wide as the doorway and long enough for soil load and weather conditions.
2. Use mats with a non-staining backing.
3. Floor protectors should be used on all furniture legs.
4. 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\*\*\***