# Construction Specification

SECTION 096519 – RESILIENT TILE FLOORING

**PART 1 – GENERAL**

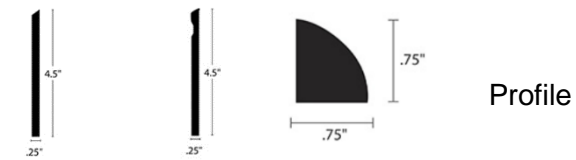1. SUBMITTALS
   a. Product Specification
   b. Specification for Adhesive
   c. Floor Layouts
   d. Samples
   e. Schedule
   f. Qualifications for Installer
2. CLOSEOUT SUBMITTALS
   a. Maintenance Instructions
   b. Warranty
3. QUALITY ASSURANCE
   a. Environmental: FloorScore® Certified
   b. Installer 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                               Profile
   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.

13. **Products** – Patcraft Bounce Back 6.5 I208V Commercial Heterogeneous Sheet or **Equal.**

END OF SECTION 096519