SECTION 09 6500
RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Resilient base.

C. Installation accessories.

1.02 REFERENCE STANDARDS

A. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring 2011.

B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile 2004 (Reapproved 2014).

C. ASTM F1700 - Standard Specification for Solid Vinyl Tile 2013a.

D. ASTM F1861 - Standard Specification for Resilient Wall Base 2008 (Reapproved 2012).

E. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source 2015.

F. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings 2011.

1.03 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

B. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.

C. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

D. Manfacturers Safety and Data Sheets (MSDS) for all products.

E. Certification of Specification Compliance

F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Extra Flooring Material: 20 square feet of each type and color.
   2. Extra Wall Base: 20 linear feet of each type and color.

1.04 DELIVERY, STORAGE, AND HANDLING

A. All materials shall be delivered at the project site in manufacturer's original cartons and/or wrappings with color, name and pattern clearly inked thereon.

B. Protect roll materials from damage by storing on end.

1.05 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

B. Provide 1 carton for each color 1000-1500 sqft. of flooring, 25 lineal feet of each color of base, and 5 percent of installed stair materials of each type and color specified.

PART 2 PRODUCTS

2.01 TILE FLOORING

A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:
   1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648, NFPA 253, ASTM E 648, or NFPA 253.
   3. Less than 450 Smoke Developed when tested as per ASTM E662

4. Size: 12 x 12 inch.
5. VOC Content: As specified in Section 01 6116.
6. Thickness: 0.125 inch.
7. Pattern: Standard.

B. Luxary Vinyl Tile (LVT): Basis of Design Mohawk Group - Hot and Heavy Secoya
1. Complies with ASTM F 1700, Class III, Type B (Embossed).
2. Thickness: .20”
3. Wear layer: 20 mil
4. Size: 9” x 59”
5. Pattern: Standard plank
6. VOC Content: As specified in Section 01 6116.

2.02 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TP, rubber, thermoplastic; top set Style B, Cove, and as follows:
1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648, NFPA 253, ASTM E 648, or NFPA 253.
2. Height: 6 inch.
3. Thickness: 0.125 inch thick.
4. Finish: Matte.
5. Length: Roll.
6. Accessories: Premolded external corners, internal corners, and end stops.

2.03 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
1. Adhesive for LVT: M99 Resilient Flooring Adhesive

C. Moldings, Transition and Edge Strips: Metal.

D. Filler for Coved Base: Plastic.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Verify that concrete sub-floor surfaces are dry enough and ready for resilient flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI Recommended Work Practices for Removal of Resilient Floor Coverings.

B. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

C. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

D. Prohibit traffic until filler is cured.

E. Clean substrate.

F. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed. Apply primer to previously abated surfaces.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Spread only enough adhesive to permit installation of materials before initial set.

C. Set flooring in place, press with heavy roller to attain full adhesion.

D. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.04 TILE FLOORING

A. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

B. Install tile to ashlar pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

C. Do not extend flooring under fixed floor mounted casework.

3.05 RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean, seal, and wax resilient flooring products in accordance with manufacturer's instructions.

1. Strip factory applied wax coat by stripping with a neutral cleaner or soap. No steel wool or abrasive are to be used. If the factory coat is a true penetrating sealer, and so certified in writing by the manufacturer, the stripping operation shall be eleiminated. A
2. After the floor has been washed, apply one coat of compatible, nonwax type floor finish. When first coat is dry, apply one thin coat of rebuffable wax and buff thoroughly and uniformly.

3.07 PROTECTION

A. After waxing and buffing, protect all finished flooring with a layer of tough reinforced building paper, "Sisalkraft" or equal, which shall be removed by the Contractor when so directed by the Architect.

B. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION