

SECTION 09 65 19

RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. General: Provide resilient tile flooring and wall base in accordance with the Contract Documents.
- B. Scope of Work includes but is not limited to:
 - 1. Vinyl composition tile (VCT).
 - 2. Solid vinyl tile.
 - 3. Resilient base.
 - 4. Primers, adhesives, edge strips and accessories.
- C. Related Work specified in other Sections:
 - 1. Section 09 29 00 - Gypsum board construction.

1.2 QUALITY ASSURANCE

- A. Codes: Comply with the New York City Building Code and standards listed.
- B. Standards:
 - American Society for Testing and Materials (ASTM):
 - ASTM D-2240-97 - Test Method for Rubber Property Durometer Hardness.
 - ASTM E-84-01 - Test Method for Surface Burning Characteristics of Building Materials.
 - ASTM E-648-00 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems using a Radiant Heat Energy Source.
 - ASTM E-662-01 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
 - ASTM F-1066-99 - Specification for Vinyl Composition Floor Tile.
 - ASTM F1861 Standard Specification for Resilient Wall Base.

1.3 SUBMITTALS

- A. Samples:

1. Manufacturer's full range of base, trim and tile colors for Architect's selection in price range identified.
 2. Resilient Flooring: Submit three 12 inch by 12 inch samples showing full color variation of each selected type and color for flooring and stair treads.
 3. Wall Base: Submit 24 inch long sample of each selected type and color.
 4. Vinyl Edge Strip: Submit 12 inch long sample of each color selected.
- B. Manufacturer's Literature: Submit manufacturer's specifications and installation instructions for the work specified.
- C. Maintenance Instructions: Submit manufacturer's written maintenance instructions for resilient flooring.
- D. Concrete Slab Moisture Tests (ASTM F1869): Submit data of concrete slab moisture test using calcium chloride at 60-72 hr.

1.4 PRODUCT HANDLING

(see environmental conditions in manufacturer's specification)

- A. Deliver materials to job site in manufacturer's unopened containers clearly marked with manufacturer's name, brand, size, thickness, grade, color and pattern.
- B. Storage: Store materials per manufacturer's recommendations.
- C. Extra Stock: Provide five boxes of each type of resilient tile and 50 feet of each base color for Owner use.

PART 2 - PRODUCTS

1.5 VINYL COMPOSITION TILE (VCT)

- A. Manufacturer shall be equal to:
 1. Mannington: color and style as per finishes schedule (static load rating 125 psi).
 2. Armstrong World Industries: Equal to above
 3. Azrock – Equal to above
- B. Material: Tile shall be vinyl composition sized 12 inch by 12 inch by 1/8" inch thick, in accepted color. Tile shall meet ASTM F-1066 with color and pattern extending through the tile.
- C. Assembly: Fire Test Data:
 1. Flamespread to meet:
 - ASTM E-648 (Critical Radiant Flux at 0.45 with/cm² or more) - Class 1.

- ASTM E-84 - Class A (25 or less).
 - Underwriters Laboratory - CAN/ULC S102.2M88.
2. Smoke Developed: ASTM E-682:
 - (Smoke - 450 or less)
 - Smoke Developed 50 or less.
 3. Installation Over Existing Vinyl Asbestos Tile: Comply with the manufacturer's directions to prepare existing tile surface, fill imperfections and installation.

1.6 RESILIENT BASE

- A. Manufacturer shall be equal to:
 1. Roppe - Vinyl wall base in color as per finish schedule
 2. Armstrong World Industries Inc. - Vinyl wall base equal to above
 3. Johnsonite - Vinyl base equal to above
- B. Material:
 1. Size: Provide vinyl base 4" or to match base height in adjacent spaces and .080" gauge or as shown or scheduled.
 2. Cove Base: Provide cove base at resilient tile floor including base at casework and custom woodwork.
 3. Straight base shall be used at carpeted areas.
 4. Length: Provide base at the greatest lengths possible (minimum 4 foot lengths).
 5. Color as per finish schedule.
 6. Finish: Provide smooth matte finish on bases.
 7. Special Shapes: Provide premolded outside corners where available, and stop units and other shapes for continuous sanitary installation.
 8. ASTM F1861 Standard Specification for Resilient Wall Base

1.7 PRIMERS, ADHESIVES, VINYL EDGE STRIPS & ACCESSORIES

- A. Primer: When a curing, sealing, hardening, or parting compound has been used on concrete, follow the resilient flooring manufacturer's recommendation to insure adhesive compatibility.
- B. Cementitious Underlayment: As recommended by manufacturer to fill depressions and imperfections in concrete surface. Manufacturer shall be equal to:
 1. CMP Prepstar www.cmppsp.com
 2. Dramatic Surface Products DSP-502 www.dramaticsurfaceproducts.com
 3. Armstrong World Industries Inc. - S-180 latex modified underlayment.
 4. Boiardi - 102LC/940-6 underlayment.

5. Selby Battersby & Co. - Levelite.
 6. Tamms Industries Inc. - Tammstech Thin Patch.
- C. Adhesive for Flooring: Recommended by resilient flooring manufacturer and best suited for the purpose.
- D. Adhesive for Wall Base: Recommended by wall base manufacturer and best suited for the purpose, equal to Roppe #215 Cove Base Adhesive for Thermo Vinyl (TV) or Thermo Plastic (TP). Use Roppe #220 Cove Base Adhesive for Thermo Set (TS) Cove Base. Apply with a 1/8" square notched trowel.
- E. Edge Strips: Standard design, color and finish with beveled edge where not flush with adjacent floor.
1. Manufacturer shall be equal to:
 - a. Roppe
 - b. Armstrong World Industries Inc. – Equal to above
 - c. Johnsonite - Equal to above
 - d. Flexco - Equal to above.

PART 3 - EXECUTION

1.8 PREPARATION

- A. Acceptance: Prior to beginning resilient floor work, review surfaces for suitability. After acceptance, repairs to floor are under this scope of work. Test for moisture content at a rate of one test for each 500 sq. ft. where moisture is suspected at new construction and existing slabs on grade.
- B. Cleaning: Clean substrate to remove deleterious substances which would impair the work.
- C. Filling: Surface of a concrete subfloor should be dry, smooth, structurally sound, and free of depressions, scale, or foreign deposits. Fill cracks, holes and depressions, and remove roughness or protrusions by grinding. Use compounds for filling complying with resilient flooring manufacturer's recommendations.
- D. Priming, Sealing: Prime, seal or cover substrate as recommended by manufacturer of resilient flooring. Use materials complying with manufacturer's recommendations.
- E. Temperature Requirements: Maintain temperature in spaces receiving resilient tile flooring at 65 F., minimum at least 48 hours before, during, and 48 hours after installation; maintain a 55 F. minimum.

1.9 INSTALLATION

- A. Edge Strips: Install in continuous lengths at exposed edges of resilient flooring. Anchor strips solidly to substrate with recommended adhesive.
- B. Prime Coat: Apply primer to concrete surfaces if recommended by resilient flooring manufacturer.
- C. Adhesive: Apply to substrate with properly notched steel trowel. Follow manufacturer's recommendation for open time before applying resilient flooring.
- D. Extension: Extend resilient flooring into closets and off-sets, under movable equipment of the rooms and spaces shown or scheduled to receive resilient flooring.
- E. Tile Units:
 - 1. Layout: Lay tile units symmetrically about centerline of major room or space. Lay in a square, stack-bond (ashlar) pattern, unless otherwise shown. Adjust pattern so edge units are not less than one-half of tile width. Spaces and adjoining spaces shall have the grain running in the same direction.
 - 2. Installation: Fit tiles tightly so each unit is in contact with surrounding tiles and joints in proper alignment. Make neat tight joints where exposed edges abut other surfaces. Lay tile with grain running in one direction as directed.
- F. Wall Base: Secure base to surfaces with waterproof cement; make joint tight, keep top and bottom edges in firm contact to adjacent surfaces.

1.10 CLEANING & PROTECTION

- A. Cleaning & Waxing: Not more than 4 days before acceptance or occupancy by KCHC clean the resilient flooring and base. Wash thoroughly with a cleaner recommended by the flooring manufacturer, and in accordance with the flooring manufacturer's recommendations. Apply a good conditioner-sealer followed by a good commercial floor finish.
- B. Protection: Protect work from damage and from normal wear and tear throughout construction period so that it will be without indication of use or damage at the time of acceptance by KCHC using a product similar to Fortifiber Corp. Seekure finished floor protection or St. Regis Paper Co. Seekure or other means.

END OF SECTION 09 65 19