

SECTION 09650 RESILIENT FLOORING

1.0 GENERAL

1.1 SUMMARY:

- A. Section Includes:
 - 1. Vinyl composition tile.
 - 2. Resilient Base.
- B. Related work specified elsewhere:
 - 1. 03350 concrete finishes.

1.2 REFERENCES:

- A. ASTM E 648-91a -- Standard Test Method Critical Radiant Flux of Floor-Covering Systems Using a Radiant Energy Source; 1991.
- B. ASTM E 662-83 -- Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials; 1983.
- C. FS SS-T-312B -- Tile, Floor: Asphalt, Rubber, Vinyl, and Vinyl Composition; 1974 (Amendment-1(YD) 1979 and Reapproved 1990).
- D. FS SS-W-40A -- Wall Base: Rubber, and Vinyl Plastic; 1966 (Amended 1970 and Corrected 1974).
- E. NFPA 252-1990 -- Standard Method for Critical Radiant Flux of Floor Covering Systems using a Radiant Heat Energy Source; National Fire Protection Association; 1990.

1.3 SUBMITTALS:

- A. Product data: Submit technical data from each manufacturer of resilient products required.
- B. Initial Samples: Submit manufacturer's standard color selection samples for resilient products required, including all available colors and patterns.
- C. Maintenance Procedures: Submit manufacturer's published instructions for care and cleaning of resilient flooring products specified.

1.4 QUALITY ASSURANCE:

- A. Manufacturer: For each type of product required, including adhesives, cleaning compounds, and other accessories, provide the same product by one manufacturer throughout the project.
- B. Fire Performance Ratings: Provide products which have been tested and certified to comply with the following requirements.

1. Critical radiant flux (CRF): ASTM E 648 or NFPA 253; minimum value as follows:
 - a. 0.45 watt per square centimeter.
2. Smoke density: ASTM E 662; maximum 450.

1.5 PROJECT CONDITIONS:

- A. Environmental Requirements: At least 48 hours prior to beginning work, move resilient flooring materials to areas of installation and maintain at minimum 70 degrees F until 48 hours after completing installation and at minimum 55 degrees F thereafter.
- B. Sequencing: Do not begin installation of resilient flooring products until painting has been completed for each area.
- C. Existing Conditions: Do not install resilient flooring on concrete substrates until testing has been conducted to assure that moisture levels are acceptable.

1.6 MAINTENANCE:

- A. Extra Materials: At time of completing installation, deliver stock of maintenance materials to the owner. Furnish products matching those actually installed, packaged for storage and clearly labeled.
 1. Resilient tile: 10 percent of each variety installed.
 2. Resilient base: 10 percent of each variety installed.

2.0 PRODUCTS

2.1 TILE FLOORING MATERIALS:

- A. Vinyl Composition Tile:
 1. Manufacturer: See schedule
 2. Pattern or style: See Schedule.
 - a. Size and gage: 12 inches by 12 inches, 1/8 inch thick.

2.2 RESILIENT BASE MATERIALS:

- A. Wall Base: FS SS-W-40, Type I, rubber:
 1. Manufacturers: Roppe Corporation.
 2. Height: 4 inches.
 3. Thickness: 1/8 inch.
 4. Style: Standard toe base.
 5. Corners: Performed or molded units matching base in color and finish.
 6. Finish: Dull, or matte.
 7. Color: As selected by the Architect from the manufacturers standard product line.

2.3 MISCELLANEOUS ACCESSORIES:

- A. Resilient Glue Down Carpet Edging Strips: Solid rubber edging, in tapered profile
 1. Products as manufactured by Roppe Rubber Corporation, or Mercer Flooring.
 2. Color: As selected by the architect from manufacturer's standard product line.

- B. Adhesive: Type recommended by manufacturer of resilient product for specific substrate conditions.
- C. Primer: Type recommended by manufacturer of resilient product for application to concrete substrates.
- D. Patching Compound: Latex leveling and patching compound acceptable to manufacturer of resilient flooring product.
- A. Reducer Strip: for carpet to vct applications.

3.0 EXECUTION

3.1 EXAMINATION:

- A. General: Inspect substrates and conditions of installation to verify that work may properly commence. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Concrete Substrates: Perform manufacturer's recommended moisture tests before beginning installation, to verify that concrete surfaces have cured sufficiently to allow adhesive bond to resilient flooring.

3.2 PREPARATION:

- A. Substrates: Fill minor depressions, cracks, and other irregularities with patching compound.
 1. Remove paint, curing compounds, and other materials that could interfere with adhesion of resilient products.
 2. Vacuum (not sweep) clean substrate immediately prior to beginning installation in each area.
 3. Apply primer to concrete substrates prior to application of adhesive, following manufacturer's printed instructions.

3.3 GENERAL INSTALLATION REQUIREMENTS:

- A. Comply with manufacturer's published recommendations for installation in each area, extending resilient flooring into spaces which are partially concealed. Cut and fit tightly to fixtures, pipes, and other obstructions, as well as walls and partitions.
- B. Tightly adhere resilient flooring to substrate with no open joints or cracks, and without raised or blistered areas. Spread adhesive evenly, so that final installation will be without telegraphed markings from adhesive or substrate.

3.4 TILE INSTALLATION:

- A. Layout: Unless a pattern is indicated on the drawings, establish center of each space and lay tile from center point, so tiles at each edge will be not less than $\frac{1}{2}$ tile and equal in width.
- B. Matching: In each space, use tiles from same production run, and lay tiles in same sequence as removed from cartons. Discard broken, chipped or otherwise damaged tiles.
 - 1. Lay tile with pattern in adjacent tiles oriented in opposite directions.
- C. Installation: Apply adhesive with notched trowel, following manufacturer's instructions. Install tile only after adhesive has developed sufficient tack, firmly butting tiles to achieve hairline joints. Roll each area of installation at regular intervals, to assure firm bonding of tiles to substrate.

3.5 RESILIENT BASE INSTALLATION:

- A. Apply base securely in locations indicated, using maximum lengths available to minimize joints. Adhere to substrate with full spread of adhesive, assuring continuous contact with vertical and horizontal surfaces. Provide preformed corner units at 90 degree intersections.
 - 1. At irregular vertical surfaces where top edge of resilient base does not make continuous contact, fill voids with manufacturer's recommended adhesive compound.

3.6 MISCELLANEOUS ACCESSORIES INSTALLATION:

- A. Resilient Edge Strips: At locations shown on drawings, or where otherwise required to protect edge of resilient flooring, install resilient edge strips securely with recommended adhesive, to achieve tightly butted joint.

3.7 CLEANING:

- A. Initial Cleaning: Remove excess and waste materials promptly, and sweep or vacuum clean resilient flooring as soon as installation has been completed in each area. After adhesive has had adequate time to set, mop each area with damp mop and mild detergent.
- B. Final Cleaning: Remove scuff marks, excess adhesive, and other foreign substances, using only cleaning products and techniques recommended by manufacturer of resilient products.

3.8 PROTECTION:

- A. Construction Period: Cover traffic routes across completed resilient flooring with plywood, hardboard, or other durable material to protect against damage from loaded dollies and other construction traffic.
- B. Final Protection: Cover resilient floor surface with nonstaining building paper until substantial completion in each area.

END OF SECTION 09650