

## SECTION 09650 - RESILIENT FLOORING

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Work Included: Provide products in accordance with the Contract Documents. The Contract Documents are as defined in the "Agreement". The "General Conditions Governing All Contracts" shall apply to all work under the Contract. The Work of this Section shall include but not be limited to the following:
1. Vinyl composition tile.
  2. Rubber wall base.
  3. Miscellaneous accessories.
- B. Related Sections:
1. Section 09260 - Gypsum Drywall Systems.

#### 1.02 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Firm with not less than 3 years of production experience, whose published literature clearly indicates general compliance of products with requirements of this section.
- B. Installer Qualifications: Engage an experienced firm that has recently completed Resilient Flooring installations similar in cost, material, design and extent to that indicated by this section and whose work has resulted in construction with a record of successful in-service performance.
- C. Single Source Responsibility: Provide resilient flooring produced by a single manufacturer for each type required, including adhesives.
- D. Fire Test Performance: Provide resilient flooring which complies with the following performance criteria, as determined by an independent testing laboratory acceptable to authorities having jurisdiction.
1. Critical Radiant Flux (CRF): Not less than 0.45 watts per sq. cm. per ASTM E 648.
  2. Smoke Density: Not more than 450 as per ASTM E 662.

#### 1.03 SUBMITTALS

- A. Product Data, Samples and Maintenance Data: Submit all information necessary for evaluating, furnishing and installing this work. Submit fire test data.
1. Certification by tile manufacturer that products supplied for tile installation comply with local regulations controlling use of volatile organic compounds (VOC's).
- B. Samples for Initial Selection: Submit manufacturer's standard colors in the form of actual sections of resilient flooring, including accessories, showing full range of colors and patterns.

C. Samples for Verification: Submit the following samples of each type, color, and pattern of resilient flooring required, showing full-range of color and pattern variations.

1. Two 12" x 12" samples of the VCT.
2. 12" long sections of resilient flooring accessories.
3. Other materials as requested.

D. Maintenance Instructions: Submit manufacturer's recommended practices for maintaining each type of resilient flooring required.

#### 1.04 PROJECT CONDITIONS

A. Maintain minimum temperature of 65 deg. F in spaces to receive resilient flooring. Store resilient flooring materials in spaces where they will be installed for at least 48 hours before installation.

B. Install resilient flooring and accessories after other finishing operations, including painting, have been completed.

#### 1.05 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with appropriate labels.

1. Extra Stock: Deliver the following extra stock to Resident Engineer where directed.
  - a. Resilient Tile Flooring: Furnish quantity of each type of material equal to 10 percent of amount installed, for each color and type of tile flooring; but not less than one sealed carton of each.

#### 1.06 EXTENDED WARRANTIES

A. General: Provide warranties to repair or replace materials or workmanship for a period of not less than 2 years after date of Substantial Completion.

### PART 2 - PRODUCTS

#### 2.01 MATERIALS

A. General: Refer to Drawings, for finish schedules indicating the resilient flooring and accessories selected, and for their locations.

#### 2.02 VINYL COMPOSITION TILES

A. Vinyl Composition Tile General: FS SS-T-312B, Type IV; 12" x 12" x 1/8", composition 1 - asbestos-free.

B. Manufacturers: Subject to compliance with requirements, provide vinyl composition tiles as manufactured by the following manufacturers or approved equal:

1. Armstrong World Industries.
2. Azrock.

3. Kentile Floors, Inc.
4. Or Approved Equal.

- C. Product: Armstrong Premium Excelon Crown Texture or approved equal, colors to be confirmed (Pewter and Silk).

## 2.03 ACCESSORIES

- A. Wall Base: Provide wall base trim complying with ASTM F 1861, FS SS-W-40, Type I or II, height as indicated and other requirements specified in the Finish Schedule.

1. Manufacturer: Subject to compliance with requirements provide resilient base as manufactured by the following, or approved equal:

- a. Roppe Corp.
- b. Johnsonite, Inc.
- c. Mercer Products Co., Inc.
- d. Or Approved Equal.

2. Products: Provide Series P123 Charcoal as manufactured by Roppe or approved equal. Height 4" or 6" to match existing or as scheduled.

- B. Resilient Edge Strips: Provide 1/8" thick, composition, tapered edge, not less than 1" wide, unless otherwise indicated by Architect.

1. Model and Colors: As selected by Architect from manufactures standard edge strip selection.
2. Provide edge strips of longest lengths commercially available by edge strip manufacturer.

- C. Adhesives (Cements): Waterproof, stabilized type as recommended by flooring manufacturer to suit material and substrate conditions.

- D. Leveling and Patching Compound: Polymer reinforced cement based formulation as recommended by flooring manufacturer equal to the following:

1. Levelex by L&M Construction Chemicals, Inc.
2. K-55 by Ardex, Inc.
3. Skimcrete by Burke Co.
4. Or Approved Equal.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine subfloor surfaces to determine that they are smooth and free from cracks, holes, ridges, coatings preventing adhesive bond, and other defects impairing performance or appearance.
- B. Perform bond and moisture tests on concrete subfloors to determine if surfaces are sufficiently dry and suitable.

### 3.02 PREPARATION

- A. Prepare concrete subfloor surfaces as follows:
  - 1. Use leveling and patching compound for filling small cracks, holes and depressions in subfloors. Also use to build up floor thickness at intersections with adjoining floor finishes. Install in strict accordance with the manufacturer's requirements.
  - 2. Remove coatings from subfloor surfaces that would prevent adhesive bond, including paint, oils, waxes and sealers.
- B. Broom clean or vacuum surfaces to be covered, and inspect subfloor.
- C. Apply primer, if recommended by flooring manufacturer, in compliance with manufacturer's directions.

### 3.03 INSTALLATION

- A. Install resilient flooring using method indicated in strict compliance with manufacturer's printed instructions. Extend resilient flooring into toe spaces, door reveals, and into closets and similar openings. Install resilient base continuous along entire wall lengths, with a minimum of joints between lengths of base.
- B. Scribe, cut and fit resilient flooring to permanent fixtures, built-in furniture and cabinets, pipes, outlets and permanent columns, walls and partitions.
- C. Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other non-permanent marking device.
- D. Install resilient flooring on flush covers and similar items occurring within finished floor areas to remain concealed. Maintain overall continuity of color and pattern with pieces of flooring installed on these covers. Tightly cement edges to perimeter of floor around covers and to covers.
- E. Tightly cement resilient flooring to subbase without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections. Hand roll flooring at perimeter of each covered area to assure adhesion.

### 3.04 INSTALLATION OF TILE FLOORS

- A. Lay tile square to room axis. Cut tile neatly around all fixtures.
- B. Match tiles for color by using tile from cartons in same sequence as manufactured and packaged if so numbered. Damaged or defective tiles are not acceptable.
- C. All tiles shall be laid in the same direction.
- D. Layout: As indicated on Drawings.

### 3.05 RESILIENT ACCESSORY INSTALLATION

- A. General: Install resilient accessories according to manufacturer's written installation instructions.

- B. Apply resilient wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required. Apply transition edge strip to comply with the following as well as manufactures recommendation.
  - 1. Install resilient accessories in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
  - 2. Tightly adhere resilient accessories to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
  - 3. Do not stretch resilient accessories during installation.
  - 4. Install premolded outside and inside corners before installing straight pieces.
  - 5. Place resilient accessories so they are butted to adjacent materials and bond to substrates with adhesive. Install reducer strips at edges of flooring that would otherwise be exposed.

### 3.06 CLEANING AND PROTECTION

- A. Perform following operations after installation of resilient flooring:
  - 1. Sweep or vacuum floor thoroughly.
  - 2. Do not wash floor until time period recommended by resilient flooring manufacturer has elapsed to allow resilient flooring to become well-sealed in adhesive.
  - 3. Damp-mop floor to remove marks and excessive soil.
  - 4. Remove any excess adhesive or other surfaces blemishes, using cleaner as recommended by resilient flooring manufacturer.
- B. Protect flooring against damage during construction period to comply with resilient flooring manufacturer's directions.
  - 1. Apply protective floor polish to resilient flooring surfaces free from soil, excess adhesive or surfaces blemishes. Use commercially available product acceptable to resilient flooring manufacturer.
  - 2. Protect resilient flooring against damage for initial period following installation by covering with plywood or hardboard. Use dollies to move materials across floors.
  - 3. Cover resilient flooring with undyed, untreated building paper until inspection for Substantial Completion.

END OF SECTION