

## **RESILIENT FLOORING BID NO. 24-008 SPECIFICATIONS FOR THE ELMORE COUNTY BOARD OF EDUCATION**

### **1.1 DESCRIPTION OF WORK:**

A. Extent of resilient flooring and accessories is shown on drawings and in schedules, including in part, the following:

1. Luxury Vinyl Tile (LVT). 2. Rubber Floor Tile (RFT).
3. Rubber Base (RB).
4. Preparation at areas to receive resilient flooring, including substrate testing, any necessary cleaning, and leveling and/or patching.

### **1.2 QUALITY ASSURANCE:**

A. Manufacturer: Provide each type of resilient flooring and accessories as produced by a single manufacturer, including recommended primers, adhesives, sealants, and leveling compounds.

B. Fire Test Performance: Provide resilient flooring which complies with the following fire test performance criteria as determined by an independent testing laboratory acceptable to authorities having jurisdiction.

1. Critical Radiant Flux (CRF): Not less than the following rating per ASTM E 648. a. 0.45 watts per sq. cm.
2. Flame Spread: Not more than 75 per ASTM E 84. 3. Smoke Developed: Not more than 450 per ASTM E 84.

C. Flooring/Walkway Products: Products and installation, surfaces' co-efficient of friction (slipresistance), etc., under the work of this Section shall be in compliance with the more stringent of applicable provisions of the following:

1. Published U. S. Justice Department Regulations for the "Americans with Disabilities Act of 1990" (ADA; ADA-AG);
2. ADA/ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disability Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities", Published in the Federal Register July 23, 2004;
3. ANSI A117.1;
4. "Uniform Federal Accessibility Standards" (UFAS); 5. And revisions and amendments thereto.

D. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to flooring application including, but not limited to, the following:

1. Substrate conditions, including at least results of pH, moisture content and adhesion testing (and any required retesting).

### **1.3 SUBMITTALS:**

A. Product Data: Submit manufacturer's technical data and color selections for each type of resilient flooring and accessory, and installation instructions.

B. Maintenance Instructions: Submit 3 copies of manufacturer's recommended maintenance practices for each type of resilient flooring and accessory required.

C. Substrate Testing Reports: Indicating each location of tests and results. Furnish additional copies as necessary for Contractor to include in Close-out Documents.

### **1.4 PROJECT CONDITIONS:**

A. Maintain minimum temperature of 65OF (18OC) in spaces to receive resilient flooring for at least 48-hours prior to installation, during installation, and for not less than 48-hours after installation. Store resilient flooring materials in spaces where they will be installed for at least 48-hours before beginning installation. Subsequently, maintain minimum temperature of 55OF (13OC) in areas where work is completed.

B. Install resilient flooring and accessories after other finishing operations, including painting, have been completed. Do not install resilient flooring over concrete slabs until the latter have been cured and are sufficiently dry to achieve bond with adhesive as determined by resilient flooring manufacturer's recommended bond and moisture tests.

## **PART 2 - PRODUCTS**

### **2.1 ACCEPTABLE MANUFACTURERS:**

A. Manufacturer: Subject to compliance with requirements, provide products of one of the following:

1. Manufacturers of Luxury Vinyl Tile (LVT):
  - a. Armstrong World Industries, Inc.
  - b. Shaw Floors.
  - c. Mannington
  - d. Tarkett, Inc.
  - e. Patcraft (Basis of Design)
  - f. Carlisle - Ultimate RB
2. Manufacturers of Rubber Wall Base:
  - a. Burke Flooring Products Div., Burke Industries, Inc.

- b. Flexco Div., Textile Rubber Co.
- c. Johnson Rubber Co., Inc.
- d. R. C. Musson Rubber Co., Inc. e. Roppe Rubber Corp.

## **2.2 LUXURY VINYL TILE (LVT):**

- A. Provide color and patterns as indicated, or if not otherwise indicated, as selected by Architect from manufacturer's standards.
- B. Luxury Vinyl Tile (LVT):
  - 1. Basis of Design: Luxury Solid Vinyl Tile Flooring manufactured by Patcraft, Collection "Typography", Style "Typeface" or pre-approved equivalent.
  - 2. Provide a layered construction consisting of a tough, clear, vinyl wear layer protecting a high-fidelity print layer on a solid vinyl backing. Protected by a UV-cured polyurethane finish, the wear surface is embossed with different textures to enhance each of the printed visuals. Colors are insoluble in water and resistant to cleaning agents and light.
  - 3. Luxury Solid Vinyl Tile shall conform to the requirements of ASTM F 1700, 'Standard Specification for Solid Vinyl Tile', Class III, Type B - Embossed Surface.
  - 4. Sizes: 24" x 24" and 6" x 48"
  - 5. Thickness: 1/8 in.

## **2.2 ACCESSORIES:**

- A. Rubber Wall Base (RB): Provide rubber base complying with FS SS-W-40, with matching end stops and preformed or molded corner units, and as follows:
  - 1. Wall Base: ASTM F 1861.
  - 2. Type (Material Requirement): TS (rubber, vulcanized thermoset) or TP (rubber, thermoplastic).
  - 3. Group (Manufacturing Method): I (solid).
  - 4. Style: Cove (with top-set toe).
  - 5. Minimum Thickness: 0.125 inch (3.2 mm).
  - 6. Height: Height: 4", unless indicated otherwise on the Drawings.
  - 7. Lengths: Cut lengths 48 inches (1219 mm) long, or coils in manufacturer's standard length.
  - 8. Outside Corners: Premolded.
  - 9. Inside Corners: Premolded.
  - 10. Surface: Smooth.

11. Color: As indicated on the Drawings, or if not indicated, as selected by Architect from manufacturer's full line of products available at Bid date.

B. Resilient Edge Strips: 1/8" thick, homogeneous vinyl or rubber composition, tapered or bullnose edge, as selected for condition at adjoining other floor surface material and a flush or "tapered" transition, color to match flooring, or as selected by Architect from standard colors available; not less than 1" wide.

1. Locate below door (if in closed position) and similarly at cased openings, at continuous VCT and at every edge of VCT, except as indicated below.

2. Omit accent strip at doorways where carpet strip, marble threshold, aluminum or other threshold is scheduled, indicated, or otherwise required.

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

D. Concrete Slab Primer: Non-staining type as recommended by flooring manufacturer.

E. Leveling and Patching Compounds: Latex type as recommended by flooring manufacturer.

### **PART 3 - EXECUTION**

#### **3.1 INSPECTION:**

A. Require Installer to inspect subfloor surfaces to determine that they are satisfactory. A satisfactory subfloor surface is defined as one that is 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 in accordance with flooring manufacturer's and adhesive manufacturer's current written instructions and recommendations, to determine if surfaces are sufficiently cured and dry as well as to ascertain presence of curing compounds.

C. Do not allow resilient flooring work to proceed until subfloor surfaces are satisfactory.

#### **3.2 PREPARATION:**

A. Prepare subfloor surfaces as follows:

1. Use leveling and patching compounds as recommended by resilient flooring manufacturer for filling small cracks, holes and depressions in subfloors.

2. Broom clean or vacuum surfaces to be covered, and inspect subfloor.

B. Apply concrete slab primer, if recommended by flooring manufacturer, prior to application of adhesive. Apply in compliance with manufacturer's directions.

#### **3.3 INSTALLATION - GENERAL:**

A. Install resilient flooring using method indicated in strict compliance with manufacturer's current printed instructions and recommendations. Extend resilient flooring into toe spaces, door reveals, and into closets and similar openings.

1. Install resilient edge strips as resilient flooring work progresses.

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 covers for telephone and electrical ducts, and similar items occurring within finished floor areas, if any. 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 resilient flooring at perimeter of each covered area to assure adhesion.

#### **3.4 INSTALLATION OF TILE FLOORS:**

A. Lay tile from center marks established with principal walls, discounting minor offsets, so that tile at opposite edges of room area of equal width. Adjust as necessary to avoid use of cut widths less than 1/2 tile at room perimeters. Lay tile square to room axis, unless otherwise shown.

B. Match tiles for color and pattern by using tile from cartons in same sequence as manufactured and packaged if so numbered. Cut tile neatly around all fixtures. Broken, cracked, chipped, or deformed tiles are not acceptable.

1. Lay tile with grain, if any, running in one direction, as indicated, or if not indicated, as requested by Contractor from and then as directed by Architect.

C. Adhere tile flooring to substrates using full spread of adhesive applied in compliance with flooring manufacturer's directions.

D. When requested by Architect, provide borders and patterns using patterned tile selected from the tile specified herein.

#### **3.5 INSTALLATION OF ACCESSORIES:**

A. Apply wall base to walls, columns, pilasters, casework and other permanent fixtures in rooms or areas where base is required. Install base in lengths as long as practicable, with preformed corner units, or fabricated from base materials with mitered or coped inside corners. Tightly bond base to substrate throughout length of each piece, with continuous contact at horizontal and vertical surfaces.

1. On masonry surfaces, or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.

B. Place resilient edge strips tightly butted to flooring and secure with adhesive. Install edging strips at edges of flooring which would otherwise be exposed, and as indicated above under "Part 2 - Products."

### **3.6 CLEANING AND PROTECTION:**

A. Perform following operations immediately upon completion 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 being careful to remove black marks and excessive soil.
4. Remove any excess adhesive or other surface blemishes, using appropriate cleaner recommended by resilient flooring manufacturers.

B. Advise Contractor on appropriate protection of flooring against damage during construction period and to comply with resilient flooring manufacturer's current written directions and recommendations.

1. Apply protective floor polish to resilient flooring surfaces free from soil, excess adhesive or surface blemishes. Apply 2 coats of Hillyard Seal 341 under the observation of the owner.
2. Protect resilient flooring against damage from rolling loads for initial period following installation by covering with plywood or hardboard. Use dollies to move stationary equipment or furnishings across floors.
3. Cover resilient flooring with undyed, untreated building paper until inspection for substantial completion.

END OF RESILIENT FLOORING