

SECTION 096519 – RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid vinyl floor tile, a.k.a. Luxury Vinyl Tile (LVT).
2. Rubber floor tile.
3. Vinyl composition floor tile.

B. Related Sections:

1. Section 061600 – Sheathing.
2. Section 096513 – Resilient Base and Accessories.

C. Reference and Industry Standards

1. The following reference standards shall be applicable to this Section:
 - a. The current Enterprise Green Communities (EGC) Criteria, and the current New York City Overlay.
2. Industry Standards
 - ASTM (American Society for Testing and Material)
 - CDPH (California Department of Public Health)
 - FLOORSCORE®
 - LBC (Living Building Challenge) Red List
 - NALFA (North American Laminate Flooring Association)
 - NFPA (National Fire Protection Association)
 - SCAQMD (South Coast Air Quality Management District)

D. The current NYC Overlay of the current Enterprise Green Communities Criteria:

1. Mandatory Requirements: See the NYC Overlay of the EGC reference standard for full specification.
 - a. All projects must achieve compliance with the mandatory criteria measures that are applicable:
 - Criterion 6.4: Healthier Material Selection
 - Criterion 6.10: Construction Waste Management
2. Optional Project Requirements for Certification Points

- a. Additionally, rehab projects are required to achieve **55** optional points. Criteria with optional points related to this Specification Section include, but may not be limited to:

- Criterion 6.1: Ingredient Transparency for Material Health
- Criterion 6.2: Recycled Content and Ingredient Transparency
- Criterion 6.3: Chemical Hazard Optimization
- Criterion 6.4: Healthier Material Selection
- Criterion 6.5: Environmentally Responsible Material Selection
- Criterion 6.7: Regional Materials
- Criterion 6.10: Construction Waste Management

1.2 ACTION SUBMITTALS

- A. Environmental Product Declaration (EPD): For each type of product.
- B. Samples: For each exposed product and for each color and pattern specified.

1.3 INFORMATIONAL SUBMITTALS

- A. Documentation for compliance with Enterprise Green Communities criteria.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for floor tile installation.
- B. All flooring assemblies (adhesive, sealant, flooring product) shall be free from chemicals on the LBC Red List.
- C. No flexible PVC with phthalates may be installed, whether the phthalates were intentionally added or added via recycled content.

1.6 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive floor tile.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.

- E. Install floor tile after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For resilient floor tile, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
 - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
- B. Emission Requirements: New flooring must comply with CDPH emission requirements. Flexible PVC with phthalates are not allowed.
- C. Interior Adhesives and Sealants: Must have volatile organic compound (VOC) content less than or equal to the thresholds provided by the most recent version of SCAQMD Rule 1168.

2.2 SOLID VINYL FLOOR TILE (also known as Luxury Vinyl Tile)

- A. Tile Standard: ASTM F1700.
 - 1. Class: **[Class I, Monolithic Vinyl Tile] [Class II, Surface-Decorated Vinyl Tile] [Class III, Printed Film Vinyl Tile]**.
 - 2. Type: **[A, Smooth Surface] [B, Embossed Surface]**.
- B. Thickness: **[0.080 inch] [0.100 inch] [0.120 inch] [0.125 inch] <Insert dimension>**.
- C. Size: **[12 by 12 inches] [6" x 48"] <Insert dimensions>**.
- D. Colors: As selected by **[Design-Professional-of-Record] [Owner]** from manufacturer's full range.
- E. Pattern: As selected by **[Design-Professional-of-Record] [Owner]**.

2.3 RUBBER FLOOR TILE

- A. Tile Standard: ASTM F1344, **[Class I-A, Homogeneous Rubber Tile, solid color] [Class I-B, Homogeneous Rubber Tile, through mottled] [Class II-A, Laminated Rubber Tile, solid-color wear layer] [Class II-B, Laminated Rubber Tile, mottled wear layer]**.
- B. Hardness: **[Grade 1, minimum hardness of 85] [Grade 2, minimum hardness of 70] [Manufacturer's standard hardness]**, measured using Shore, Type A durometer according to ASTM D2240.
- C. Wearing Surface: **[Smooth] [Textured] [Molded pattern]**.
 - 1. Molded-Pattern Figure: **[Raised discs] [Raised squares] <Insert pattern>**.
- D. Thickness: **[0.125 inch] <Insert dimension>**.

- E. Size: **[12 by 12 inches] [24 by 24 inches] <Insert dimensions>**.
- F. Colors: As selected by **[Design-Professional-of-Record] [Owner]** from manufacturer's full range.
- G. Pattern: As selected by **[Design-Professional-of-Record] [Owner]**.

2.4 VINYL COMPOSITION FLOOR TILE

- A. Tile Standard: ASTM F1066, Class 3, surface pattern.
- B. Wearing Surface: **[Smooth] [Embossed]**.
- C. Thickness: **[0.125 inch] <Insert dimension>**.
- D. Size: 12 by 12 inches.
- E. Colors: As selected by **[Design-Professional-of-Record] [Owner]** from manufacturer's full range.
- F. Pattern: As selected by **[Design-Professional-of-Record] [Owner]**.

2.5 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, Portland-cement-based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.
- C. FloorScore® Compliance: Resilient tile flooring shall comply with requirements of FloorScore Standard for volatile organic compounds.
 - 1. All adhesives must comply with Rule 1168 of the South Coast Air Quality Management District.
 - a. Vinyl Composition Tile and Asphalt Tile Adhesives: Not more than 50 g/L.
 - b. Rubber Floor Adhesives: Not more than 60 g/L.
- D. Floor Polish: Provide protective, liquid floor-polish products recommended by floor tile manufacturer.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion .

- B. Access Flooring Panels: Remove protective film of oil or other coating using method recommended by access flooring manufacturer.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install floor tiles until materials are the same temperature as space where they are to be installed.
 - 1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

3.2 FLOOR TILE INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor tile.
- B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
 - 1. Lay tiles in pattern indicated.
- C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
 - 1. Lay tiles in pattern of colors and sizes indicated.
- D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
- G. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in installation areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
- H. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
- I. Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish.

1. Apply [**one**] [**two**] [**three**] <**Insert requirements**> coat(s).

END OF SECTION 096519