

SECTION 096519 - RESILIENT TILE AND STRIP FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Vinyl composition floor tile (VCT).
 - 2. Vinyl composition strip flooring (LVT).
- B. Related Sections:
 - 1. Division 09 Section "Resilient Base and Accessories" for resilient base, reducer strips, and other accessories installed with resilient floor tile coverings.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of floor tile and strip flooring indicated.
- C. Samples for Verification: Full-size units of each color and pattern of floor tile required.
 - 1. For heat-welding bead, manufacturer's standard-size Samples of each color required.
- D. Product Schedule: For floor tile and strip flooring.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of floor tile and strip flooring product to include in maintenance manuals.

1.6 MATERIALS MAINTENANCE SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Flooring Products: Furnish 1 box for every (50) fifty boxes or fraction thereof, of each type, color, and pattern of floor tile and strip flooring installed.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs workers for this Project who are competent in techniques required by manufacturer for flooring products and installations indicated.
- B. Fire-Test-Response Characteristics: Provide products identical to those tested for fire exposure performance and behavior by test method indicated and acceptable to the authorities having jurisdiction.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store flooring products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store flooring products on flat surfaces.

1.9 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 65 deg F or more than 85 deg F in spaces to receive floor tile and strip flooring products during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 65 deg F or more than 85 deg F.
- C. Close spaces to traffic during floor product installation.
- D. Close spaces to traffic for 48 hours after floor product installation.
- E. Install floor products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Low-Emitting Materials: Flooring system shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.2 VINYL COMPOSITION STRIP FLOORING (LVT)

- A. Products: As selected by the Owner and subject to compliance with requirements available products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Konecto Strip Flooring
 - 2. Floor folio: Enviro Quiet series (Reference Product).
 - 3. Mannington Mills Commercial
 - 4. Armstrong World Industries, Inc.
 - 5. Congoleum Corp.
 - 6. Tarkett, Inc.
- B. Tile Standard: ASTM F 1700 – 99 with backing in units.
 - 1. Class: Class II, surface-decorated vinyl tile.
 - 2. Type: Type A, wood grain textured surface.
- C. Thickness: 0.080 inch (2.0 mm minimum).
- D. Size: 6” x 48” strip – manufacturer’s standard.
- E. Colors and Patterns: As selected by the Owner from full range of industry colors.

2.3 VINYL COMPOSITION FLOOR TILE (VCT)

- A. Products: As selected by the Owner and subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Armstrong World Industries, Inc.; - Standard Excelon Multi-Color (Reference Product)
 - 2. Congoleum Corporation.
 - 3. Mannington Mills, Inc.
 - 4. Tarkett, Inc.
- B. Tile Standard: ASTM F 1066, Class 3, surface-pattern tile.
- C. Wearing Surface: Smooth.
- D. Thickness: 0.125 inch (3.2 mm).

- E. Size: 12 by 12 inches (305 by 305 mm).
- F. Colors and Patterns: As selected by the Owner from full range of industry colors.

2.4 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient floor product manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.
 - 1. Adhesives shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - a. VCT and VP Adhesives: Not more than 50 g/L.
 - 2. Adhesives shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- C. Metal Edge Strips; Extruded aluminum with mill finish of height required to protect exposed edges of resilient flooring products and in maximum available lengths to minimize running joints.
- D. Transition strips; Manufacturer's standard accessory products for VP edge and direction transitions in the same finish color, texture and grain as the selected VP product.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient floor products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient flooring products.

- B. Concrete Substrates: Prepare according to ASTM F 710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
 - 4. Moisture Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install floor products until they are same temperature as space where they are to be installed.
 - 1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
- E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 FLOOR PRODUCT INSTALLATION

- A. Comply with manufacturer's written instructions for installing floor product.
- B. Lay out flooring from center marks established with principal walls, discounting minor offsets, so product 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 flooring products square with room axis unless otherwise indicated.
- C. Match flooring products for color and pattern by selecting products from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed products.
 - 1. Lay VCT with grain direction alternating in adjacent tiles (basket-weave pattern).
- D. Scribe, cut, and fit floor products according to manufacturer's written instructions and to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor products into toe spaces, door reveals, closets, and similar openings. Extend floor products 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 products as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.

- G. Install floor products on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in finished floor areas. Maintain overall continuity of color and pattern between pieces of floor product installed on covers and adjoining tiles. Tightly adhere product edges to substrates that abut covers and to cover perimeters.
- H. Adhere floor products to flooring substrates according to manufacturer's written instruction and 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.

3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of floor products.
- B. Perform the following operations immediately after completing floor product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
 - 3. Damp-mop surfaces to remove marks and soil.
- C. Protect floor products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor tile surfaces following manufacturer's written instructions and before applying liquid floor polish acceptable to floor product manufacturer.
- E. Joint Sealant: Apply sealant to floor product installed perimeter and around columns, at door frames, and at other joints and penetrations.
- F. Cover floor products until Substantial Completion.

END OF SECTION 096519