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## 096543 - Linoleum Floor Coverings

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## **SECTION 09 6543 - LINOLEUM FLOOR COVERINGS**

### 1.1 SUMMARY

- A. The University prefers to use regional materials within a 500 mile radius of the campus.
- B. Section Includes:
  - 1. Linoleum floor tile and sheet flooring.

### 1.2 SUBMITTALS

- A. LEED Submittals:
  - 1. Product Data for Credit MR 6.0: For linoleum flooring, including printed statement of costs for each rapidly renewable material.
  - 2. Product Data for Credit EQ 4.1: For adhesives, including printed statement of VOC content.
  - 3. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content.
    - a. Include statement indicating costs for each product having recycled content.

### 1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
  - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

### 1.4 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Floor Tile: Furnish 1 box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.
  - 2. Sheet Flooring: Furnish not less than 10 linear feet (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, in roll form and in full roll width for each color, pattern, and type of sheet flooring installed.

### 1.5 MANUFACTURERS

- A. Products:

1. Armstrong World Industries, Inc.
2. Forbo Flooring, Inc.
3. Tarkett Inc.
4. Marmoleum.

#### 1.6 LINOLEUM FLOOR COVERING

- A. Floor Tile: ASTM F 2195, Type I, linoleum floor tile with fibrous backing.
  1. Nominal Floor Tile Size: 12 by 12 inches (300 by 300 mm), 18 by 18 inches (460 by 460 mm), 20 by 20 inches (500 by 500 mm), or 24 by 24 inches (600 by 600 mm).
- B. Sheet Flooring: ASTM F 2034, Type I, linoleum sheet with backing.
  1. Roll Size: In manufacturer's standard length by not less than 78 inches (1980 mm) wide.
- C. Thickness: 0.10 inch (2.5 mm).

#### 1.7 INSTALLATION MATERIALS

- A. Adhesives: Water-resistant type recommended by manufacturer to suit products and substrate conditions indicated.
  1. Use adhesives that have a VOC content of not more than 50 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. Floor Polish: Provide protective liquid floor polish products as recommended by manufacturer and approved by the University.

#### 1.8 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of floor coverings.
- 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 floor covering 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 and as follows. Proceed with installation only after substrates pass testing.

- a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
- b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have maximum 75 percent relative humidity level measurement.

#### 1.9 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of floor coverings.
- B. Perform the following operations immediately after completing floor covering 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 coverings 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 coverings before applying liquid floor polish.
  1. Apply in accordance with University's written instructions.
- E. After allowing drying room film (yellow film caused by linseed oil oxidation) to disappear, cover floor coverings until Substantial Completion.

END OF SECTION 09 6543