

SECTION 09 65 16

RESILIENT SHEET FLOORING

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Sheet vinyl flooring.
- B. Edging strips.
- C. Base.
- D. Underlayment and floor patch.
- E. Adhesives and primers.

1.02 MEASUREMENT AND PAYMENT

- A. General: Resilient sheet flooring and base will not be measured separately for payment but will be paid for as part of the Contract lump sum price for Architectural Work.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
 - 2. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
 - 3. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
 - 4. ASTM F1861 Standard Specification for Resilient Wall Base
 - 5. ASTM F1303 Standard Specification for Sheet Vinyl Floor Covering with Backing
- B. Resilient Floor Covering Institute (RFCI):
 - 1. RFCI Installation
- C. National Sanitation Foundation (NSF)/American National Standards Institute (ANSI)
 - 1. NSF/ANSI 332 Sustainability Assessment for Resilient Floor Coverings

- D. California Code of Regulations (CCR)
 - 1. Title 24, Part 11, California Green Building Standards Code (CalGreen)
- E. National Fire Protection Association
 - 1. NFPA 101 Life Safety Code

1.04 SUBMITTALS

- A. General: Refer to Section 01 33 00, Submittal Procedures, and Section 01 33 23, Shop Drawings, Product Data, and Samples, for submittal requirements and procedures. Adhere to CalGreen Section 5.504.4.6.1 documentation requirements.
- B. Samples: Submit samples of sheet vinyl flooring, edge trim, resilient base, and accessories. Sheet vinyl flooring and base require approval of the Engineer before they may be purchased for this Work.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Sheet Vinyl Flooring: ASTM F1303, Type II, Grade 1. Sheet vinyl flooring shall meet the following requirements:
 - 1. Flame Spread: 25 maximum, according to NFPA 101, Section 10.2.3.4.1, when tested in accordance with ASTM E84.
 - 2. Smoke Developed: 450 maximum when tested in accordance with ASTM E662.
 - 3. Critical Radiant Flux: 0.45 minimum when tested in accordance with ASTM E648.
 - 4. Gage: 0.080 inch minimum.
 - 5. Color and Pattern: As indicated, or as selected by the Engineer from manufacturer's standards.
 - 6. Low Emitting Material: Adhere to CalGreen Section 5.504.4.6.
 - 7. Sustainability: NSF/ANSI 332
- B. Edging Strips: Molded vinyl, one-and-one-half inch by one-eighth inch thick, with exposed edge one-fourth rounded, in color as selected by the Engineer from manufacturer's standards.
- C. Base: ASTM F1861, topset cove, solid vinyl or rubber.
 - 1. Size: Four-inches high, unless otherwise indicated.

- 2. Color: As indicated, or as selected by the Engineer from manufacturer's standards.
- D. Underlayment and Floor Patch: Floor patch and leveling compound or underlayment shall be products manufactured for the purpose as recommended by the manufacturer of the resilient flooring furnished.
- E. Adhesives and Primers: Products specified or recommended by the manufacturer of the particular resilient flooring and base furnished.

PART 3 – EXECUTION

3.01 INSPECTION AND PREPARATION OF SURFACES

- A. Inspection of Substrate Surfaces: Before starting the installation of resilient flooring and base, examine all surfaces on which the finish flooring and base are to be applied. Examination includes bond, moisture, and alkali testing of concrete subfloors. Any defective surfaces or conditions preventing proper execution of the work shall be corrected as required.
- B. Cleaning and Preparation of Substrate Surfaces: Subsurfaces and backing surfaces shall be dry, clean of dust, paint spots, grease, and bond breaking or curing compounds. Subsurfaces shall also be free from roughness and sharp edges to prevent protrusions and bulges after resilient material is laid or applied. Fill all joints, cracks, and depressions in concrete slabs with specified floor patch and underlayment material. Grind down ridges and high spots flush and smooth with surrounding surfaces.
- C. Beginning Work: Installation shall not begin until the work of other trades in the area, including painting, has been completed.
- D. Responsibility: Nothing specified herein shall be construed as relieving the Contractor of any responsibility for the quality of the finished installation. Surfaces on which resilient flooring and base are to be applied shall be level and in proper condition in every respect for an acceptable installation and long life without defects.

3.02 INSTALLATION

- A. Installation Standards: Comply with RFCI Installation and ASTM F1861, as appropriate.
- B. Installation Requirements: Keep materials at a temperature of 70 degrees Fahrenheit or higher for at least 48 hours before using, and maintain 70 degrees Fahrenheit or higher room temperatures at least three days before, during, and after application of materials. Apply materials in accordance with the sheet vinyl manufacturer's installation instructions. Materials shall be installed only by skilled and experienced applicators authorized and approved by the manufacturer.

- C. Sheet Vinyl Flooring:
1. Installation System: Sheet vinyl flooring shall be installed in accordance with the sheet vinyl flooring manufacturer's instructions.
 2. Application of Adhesive: Apply specified adhesive with a notched steel trowel to ensure an even bed of adhesive. Cross-trowel to achieve an even thickness.
 3. Sheet Vinyl Layout: Layout vinyl sheet to ensure minimum number of seams. Only "perfects" shall be used so that cross seams shall be kept to absolute minimum. Lay sheets firmly against adjacent sheets to minimize joints. Neatly scribe around pipes, fixtures, and equipment to form tight, hairline joints free of gaps.
 4. Sheet vinyl at Permanent Cabinets: Sheet vinyl flooring is not required under fixed cabinets having covered fronts and integral bottoms and which are permanently anchored to the structure.
 5. Edging Strips: Install edging strips wherever sheet vinyl terminates at an opening or where there is an unprotected edge. Top of strips shall be flush with top of sheet vinyl flooring.
- D. Complete resilient flooring installation before applying base. Install base on all walls as indicated and on fronts, toe spaces, and finished backs and ends of cabinets with adhesive recommended by manufacturer of base. Apply adhesive to both wall and base and press firmly into place. Maintain top edge at true horizontal line. Toe of coved base shall contact floor for entire length. Closely butt end joints, top edge, and faces flush. Remove excess adhesive.

3.03 CLEANING, SEALING, AND PROTECTION

- A. Traffic: Until floors are well seated at least 72 hours at a maintained temperature of not less than 70 degrees Fahrenheit, traffic shall be kept to an absolute minimum, and fixtures, equipment, trucks, and similar equipment or vehicles shall not be permitted to travel over floors.
- B. Cleaning and Sealing: Just before turning finished spaces over to the Engineer, and not before, clean resilient flooring and base thoroughly in accordance with the flooring manufacturer's recommendations. After cleaning, apply one coat of approved non-skid finish to floors and polish with a mechanical buffer.
- C. Protection: Install clean plywood or board walks over clean, non-staining building paper where any traffic from other trades must pass over completed resilient floors. Maintain protection until acceptance by the District and Contract substantial completion.

END OF SECTION 09 65 16