

**SECTION 09 65 00
RESILIENT FLOORING**

PART 1 GENERAL

1.01 REFERENCES

A. The following is a list of standards which may be referenced in this section:

1. ASTM International (ASTM):
 - a. D412, Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
 - b. D2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
 - c. E648, Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source.
 - d. F1859, Standard Specification for Rubber Sheet Floor Covering without Backing.
 - e. G21, Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
2. National Fire Protection Association (NFPA): 253, Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source.

1.02 SUBMITTALS

A. Action Submittals:

1. Manufacturer's product data and installation instructions.
2. Shop Drawings: Include floor plans showing floor pattern, scaled design, color of various materials, and location of floor accessories.
3. Samples: Two 12-inch squares of sheet material for each type and color or pattern of resilient flooring.

B. Informational Submittals:

1. Operation and Maintenance Data:
 - a. As specified in Section 01 78 23, Operation and Maintenance Data.
 - b. List of recommended maintenance products, methods, and procedures.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in original containers at not less than 70 degrees F ambient temperature for not less than 24 hours immediately before installation.

1.04 ENVIRONMENTAL REQUIREMENTS

- A. Maintain ambient temperature in space to receive flooring between 70 degrees F and 90 degrees F for not less than 24 hours before and 48 hours after installation.
- B. Maintain minimum temperature of 55 degrees F after flooring is installed, except as specified above.

1.05 EXTRA MATERIALS

- A. Furnish additional floor covering materials from same production run as installed material.
 - 1. Quantity: Equivalent to 10 percent of installed materials.

1.06 SEQUENCING AND SCHEDULING

- A. Do not install floor coverings until concrete slab has cured for 60 days or until primer material in test patches cannot be scraped or peeled from the slab after drying 24 hours.

PART 2 PRODUCTS

2.01 MANUFACTURERS AND PRODUCTS

- A. Nora Flooring; Noraplan Unita.
- B. Or equal.

2.02 FLOOR COVERING MATERIALS

- A. General: Furnish materials uniform in thickness and size with edges cut accurately and square; uniform color with variations in variegated patterns kept to a minimum.
- B. Sheet Rubber (SRUB):
 - 1. Physical Characteristics:
 - a. Smooth, homogeneous, marbleized rubber sheet.
 - b. Thickness: 1/8 inch.
 - 2. Functional Characteristics: Superior slip resistance, suitable for application with hygienic requirements.

3. Performance Characteristics:
 - a. Rolling load limit (ASTM F2753): 450 pounds per square inch.
 - b. Slip Resistance in accordance with ASTM D2047.
 - c. Bacteria Resistance in accordance with ASTM E2180/ASTM G21.
 - d. Flammability in accordance with E648/NFPA 253.

2.03 RESILIENT BASE

- A. See Section 09 29 00, Gypsum Board.

2.04 ACCESSORIES

A. Trim:

1. Physical Characteristics: Furnish in lengths as long as practical to suit conditions of installation.
2. Functional Characteristics: None.
3. Performance Characteristics: None.

B. Reducers:

1. Manufacturers and Products:
 - a. Johnsonite; Reducer Series RRS.
 - b. Or equal.
2. Physical Characteristics: Standard rubber or vinyl floor reducer in thickness to suit abutting floor covering by 1-inch wide, tapered or beveled-edge strip.
3. Functional Characteristics: None.
4. Performance Characteristics: None.

C. Primer, Filler, and Adhesive:

1. Physical Characteristics:
 - a. Type and brands of adhesive as recommended by manufacturer of floor covering material for conditions of installation.
 - b. Primer and Crack Filler: Type and brand recommended by floor covering manufacturer.
2. Functional Characteristics: None.
3. Performance Characteristics: None.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrate for excessive moisture content and unevenness preventing execution and quality of resilient flooring as specified.

- B. Material Inspection: In accordance with manufacturer's installation requirements, visually inspect materials prior to installation. Do not install materials with visual defects.
- C. Correct defects before installation of resilient flooring.

3.02 PREPARATION

- A. Remove dirt, oil, grease, or other foreign matter from surfaces to receive floor covering materials.
- B. Fill cracks less than 1/16-inch wide and depression less than 1/8-inch deep with floor filler.
- C. Prime surfaces if recommended by floor covering manufacturer.

3.03 APPLICATION OF ADHESIVES

- A. Mix and apply adhesives in accordance with manufacturer's instructions.
- B. Provide safety precautions during mixing and applications as recommended by adhesive manufacturer.
- C. Apply uniformly over surfaces:
 - 1. Cover only amount of area that can be covered by flooring material within recommended working time of adhesive.
 - 2. Remove any adhesive that dries or films over.
 - 3. Do not soil walls, bases, or adjacent areas with adhesives.
 - 4. Promptly remove any spillage.
- D. Apply adhesives with notched trowel or other suitable tool.
- E. Clean trowel and rework notches as necessary to ensure proper application of adhesive.

3.04 INSTALLATION OF SHEET MATERIALS

- A. Cutting and Fitting:
 - 1. Cut sheet material in lengths and sizes required for minimum number of seams and for pattern match between adjacent abutting edges. Double-cut if required.
 - 2. Lay cut sheets flat and allow to acclimate to room temperature prior to installation.

B. Installation:

1. Apply adhesive to back of sheets and roll over floor surface.
2. Work out wrinkles and air pockets.
3. Roll material in two directions starting at center of sheet.
4. Butt edges of adjoining sheets.
5. Neatly and tightly seal joints with adhesive.
6. Weld seams where noted or scheduled.

3.05 INSTALLATION OF TRIM MATERIALS

- A. Provide reducers where floor covering terminates exposing edge of covering.
- B. Center reducer under door, where floor covering terminates at a door opening. Fit end edges to door frames and abutting surfaces and other edges to adjoining materials.
- C. Apply adhesives and bond securely to substrates in straight true lines. Meet visible and related features of building construction with a maximum deviation of 1/8 inch in 10 feet.

3.06 CLEANING AND PROTECTION

- A. Upon completion of the installation of floor covering and adjacent work, and after materials have set, clean surfaces with a neutral cleaner as recommended by manufacturer for type of floor covering material installed.
- B. Repair adjacent surfaces damaged by flooring installation.
- C. Wax Finishing:
 1. Provide wax, cleaner, or other finishing material as recommended by floor covering manufacturer for the particular type of flooring material.
 2. Apply one coat of nonslip wax or other finish as recommended by floor covering manufacturer; buff to a sheen.
 3. Do not wax radial rubber tile.
- D. Protect completed work from traffic and damage until Substantial Completion by covering with plastic sheet, kraft paper, or plywood panels.

3.07 INSTALLATION SCHEDULE

- A. Areas to receive resilient flooring, and pattern, are indicated in Interior Finish Schedule on the Drawings.

END OF SECTION

