

SECTION 09650 - RESILIENT FLOORING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes resilient sheet flooring; resilient tile flooring; resilient base; and resilient stair accessories.

1.2 RELATED SECTIONS

- A. Section 01230 - Alternates: Alternates affecting the work of this section.

1.3 REFERENCES

- A. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E648 - Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- C. ASTM E662 - Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- D. ASTM F1066 - Vinyl Composition Floor Tile.
- E. ASTM F1303 - Sheet Vinyl Floor Covering with Backing.
- F. ASTM F1861 - Thermoset Vulcanized Rubber.
- G. FS SS-T-312B - Tile, Floor: Asphalt, Rubber, Vinyl, and Vinyl Composition.
- H. FS SS-W-40A - Wall Base, Rubber and Vinyl Plastic.
- I. NFPA 253 (National Fire Protection Association) - Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

1.4 SUBMITTALS

- A. Section 01330 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Indicate seaming plan, custom patterns and inlay designs.
- C. Product Data: Submit data describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- D. Samples:
 - 1. Submit manufacturer's complete set of color samples for initial selection.
 - 2. Submit two samples, 4 x 4 inch in size illustrating color and pattern for each resilient flooring product specified.

1.5 CLOSEOUT SUBMITTALS

- A. Section 01700 - Execution Requirements: Closeout procedures.
- B. Operation and Maintenance Data: Submit maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing Work of this section with minimum three years experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 01600 - Product Requirements: Product storage and handling requirements.
- B. Protect roll materials from damage by storing on end.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Section 01600 - Product Requirements.
- B. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

- C. Store materials for not less than 48 hours prior to installation in area of installation at temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

1.9 EXTRA MATERIALS

- A. Section 01700 - Execution Requirements: Spare parts and maintenance products.
- B. Furnish 100 sq ft of flooring, 100 lineal feet of base, of each type and color specified.

PART 2 PRODUCTS

2.1 SHEET FLOORING

- A. Solid Vinyl Sheet (SVS-1):
 - 1. Thickness: .080 in.
 - 2. Width: 6 ft. 7 in.
 - 3. Base: Integral 4 in. cove base. Provide chamfer strip at corner.
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Suprema by Altro.
- B. Slip Resistant Sheet Vinyl (SRSV-1):
 - 1. Thickness: 2.0 mm.
 - 2. Width: 2.0 m.
 - 3. Joints: Heat weld.
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Polysafe Vogue Ultra Pur by Polyflor.
- C. Sheet Vinyl (SV-1):
 - 1. Thickness: 5 mm.
 - 2. Width: 12'.
 - 3. Warranty: 25 years.
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Sobella by Mannington.
- D. Sheet Vinyl (SV-2):
 - 1. Thickness: 2.0 mm.
 - 2. Width: 2.0 m.
 - 3. Seam: Vinyl weld rod, color to match flooring.
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Forest FX by Polyflor.
- E. Sheet Vinyl (SV-3):
 - 1. Thickness: 7.0 mm.
 - 2. Width: 6 feet.
 - 3. Seam: Weld Rod by Ecore
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Forest RX Ecore Commercial Flooring by Polyflor. (Doug Fulmer, 717-945-4010.)

2.2 TILE FLOORING

- A. Solid Vinyl Tile (SVT-1):
 - 1. Material: Solid vinyl plank.
 - 2. Size: 7.25 x 48 inches.
 - 3. Thickness: 5 mm
 - 4. Color: Refer to Section 09000 - Color Legend.
 - 5. Source: Procedo by Sylvana Flooring.
- B. Solid Vinyl Tile (SVT-2 and SVT-3):
 - 1. Material: solid vinyl plank.
 - 2. Size: 12 x 18 inches.
 - 3. Thickness: .120".
 - 4. Edge: Slight bevel.

5. Surface Texture: Pathway.
 6. Feature Strip: .100" with slight bevel; color as selected by Architect.
 7. Colors: Refer to Section 09000 - Color Legend.
 8. Source: Contour Series by Centiva.
- C. Solid Vinyl Tile (SVT-4): Not Used.
- D. Solid Vinyl Tile (SVT-5): Not Used.
- E. Solid Vinyl Tile (SVT-6 and SVT - 7):
1. Size: 12 inch x 18 inch plank.
 2. Thickness: 0.120 inch.
 3. Color: Refer to Section 09000 - color Legend.
 4. Source: Event Stone River Rock by Centiva.
- F. Vinyl Composition Tile (VCT-1 and VCT-2):
1. Size: 12 x 12 inches.
 2. Thickness: 0.125 inch
 3. Color: Refer to Section 09000 - Color Legend.
 4. Source: Designer Essentials by Mannington.

2.3 RESILIENT BASE

- A. Manufacturers:
1. Johnsonite Corp.
 2. Substitutions: Refer to Section 01600.
- B. Rubber Base (RB-1):
1. Material: Rubber.
 2. Height: 5.25 inch.
 3. Thickness: 0.375 inch.
 4. Color: Refer to Section 09000 - Color Legend.
 5. Source: "Millwork" Wall Base, Inflection, MW-XX-G by Johnsonite.
- C. Rubber Base (RB-2):
1. Material: Rubber.
 2. Height: 4.25 inch.
 3. Thickness: 0.25 inch.
 4. Color: Refer to Section 09000 - Color Legend.
 5. Source: "Millwork" Wall Base, Reveal, MW-XX-F by Johnsonite.
- D. Rubber Base (RB-3):
1. Material: Rubber.
 2. Height: 4 inch, with toe.
 3. Thickness: 1/8 inch.
 4. Color: Refer to Section 09000 - Color Legend.
 5. Length: 120 ft coils.
 6. Source: Traditional Wall Base by Johnsonite.
- E. Rubber Base (RB-4):
1. Material: Rubber.
 2. Height: 4 inch.
 3. Thickness: 3/8 inch.
 4. Color: Refer to Section 09000 - Color Legend.
 5. Source: "Masquerade" Wall Base, Viewpoint, MW-XX-V by Johnsonite.
- F. Corner Guard (CG-1): Refer to Section 10260 - Wall Protection.

2.4 STAIR COVERING

- A. Manufacturer:
1. Johnsonite.
 2. Substitutions: Refer to Section 01600.
- B. Rubber Stair Treads (RST-1):

1. Type: Rubber 0.210 to 0.153 inch tapered 13 inch tread depth with 7 inch integral riser.
2. Nose: Square nose configuration, 2 inch wide with contrasting color grit tape insert.
3. Color: Refer to Section 09000 - Color Legend.
4. Source: VIRTR-SQ (Visually Impaired) Roundel Square Raised Disk Pattern Rubber Stair Treads with integrated Riser by Johnsonite.

2.5 ACCESSORIES

- A. Subfloor Filler: Premix latex type recommended by adhesive material manufacturer.
- B. Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.
- C. Moldings and Transition Strips: Rubber, color as selected, profile as required for flooring encountered.
- D. Sheet Flooring Welding Rod: Solid bead produced by manufacturer of flooring for heat welding seams.
- E. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01300 - Administrative Requirements: Verification of existing conditions before starting Work.
- B. Subfloor Moisture Conditions: Perform calcium chloride moisture test in accordance with CRI 104, 6.2.1, with subfloor temperatures not less than 55 deg. F. Moisture emission shall not exceed 3lb/1000 sq. ft. for 24 hr. period.
- C. Verify floor and lower wall surfaces are free of substances capable of impairing adhesion of new adhesive and finish materials.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- B. Prohibit traffic until filler is cured.
- C. Clean substrate.
- D. Apply primer as required to prevent "bleed-thru" or interference with adhesion by substances that cannot be removed.

3.3 INSTALLATION - SHEET FLOORING

- A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns carefully at seams.
- B. Double cut sheet; provide heat welded seams or butt joints as required.
- C. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.
- D. Install coved base as detailed on drawings, using coved base filler as backing at floor to wall junction. Extend sheet flooring in wet areas or as scheduled vertically to height indicated.
- E. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- F. Install heat welding rods where required in accordance with manufacturer's printed instructions.

3.4 INSTALLATION - TILE FLOORING

- A. Mix tile from container to ensure shade variations are consistent when tile is placed.

- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
- C. Install tile to basket weave pattern unless noted otherwise. Allow minimum 1/2 full size tile width at room or area perimeter.
- D. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- E. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.
- F. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.

3.5 INSTALLATION - BASE

- A. Fit joints tightly and make vertical. Maintain min. dimension of 36 in. between joints.
- B. Miter internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold.
- C. Install base on solid backing. Bond tightly to wall and floor surfaces.
- D. Scribe and fit to door frames and other interruptions.

3.6 INSTALLATION - STAIR COVERINGS

- A. Install stair treads, in one piece for full width and depth of tread.
- B. Install stringers configured tightly to stair profile.
- C. Adhere over entire surface. Fit accurately and securely.

3.7 CLEANING AND PROTECTION

- A. Section 01700 - Execution Requirements: Final cleaning and protection.
- B. Remove excess adhesive from floor, base, and wall surfaces without damage.
- C. Clean, seal, and maintain resilient flooring products.
- D. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION