

**SECTION 09 65 00
RESILIENT FLOORING**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Resilient sheet and tile flooring
- B. Resilient base
- C. Resilient stair nosing, treads, risers and skirting

1.2 REFERENCES

- A. ASTM E84 - Standard Test Method for the Surface Burning Characteristics of Building Materials
- B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile
- C. ASTM F1344 - Standard Specification for Rubber Floor Tile
- D. RR-T-650E – Federal Specification, Treads, Metallic and Non-metallic, Skid Resistant
- E. FBC - Florida Building Code

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings: Indicate seaming plan, borders, and patterns.
- C. Product data: Provide data on specified products, describing physical and performance characteristics, sizes, patterns and colors available.
- D. Samples: Submit two samples minimum of 12" x 12" in size illustrating color and pattern for each floor material for each color specified.
- E. Submit two 12" long samples of base and stair material for each color specified.
- F. Provide manufacturer's installation instructions indicating procedures and perimeter conditions.

1.4 REGULATORY REQUIREMENTS

- A. Conform to ASTM E84 for flame/smoke rating requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products per the Manufacturer's recommendations and Warranty requirements.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Store the materials at least 3-days prior to installation in area of installation to achieve temperature stability.
- B. Maintain ambient temperature required by adhesive manufacturer at least 3-days prior to, during, and 24 hours after installation of materials.

1.7 MAINTENANCE DATA

- A. Submit under provisions of Section 01 77 00.
- B. Maintenance Date: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from one of the following:
 - 1. Armstrong Flooring
 - 2. Forbo Flooring
 - 3. LG Floors
 - 4. Approved Equal

2.2 MATERIALS - SHEET FLOORING

- A. Vinyl Sheet:
 - 1. Color and pattern through total thickness of 0.080"

2. Homogeneous, non-backed, through-grain vinyl granules with pattern and color uniformly distributed throughout entire thickness.
 3. Heat welded seams using welding rod produced by the manufacturer of the flooring.
 - B. Rubber Sheet: 100% rubber composition, color, and pattern through total thickness:
 1. Total Thickness: $\frac{1}{8}$ "
 2. Design: flat
 - C. Feature Strips: Of same material as sheet flooring.
 - D. All floor material in a room or space shall be from the same dye lot or run.
 - E. Provide and install color and pattern as selected by the Architect and Owner from manufacturer's standard colors and patterns.
- 2.3 MATERIALS - TILE FLOORING
- A. Vinyl Composition Tile (VCT): ASTM F1066; Class 2
 1. Thickness: $\frac{1}{8}$ "
 2. Design: marbled
 - B. Rubber Tile: ASTM F1344, Type II; Class B
 1. Thickness: $\frac{3}{16}$ "
 2. Design: flat
 - C. Pre-Finished Floor Tiles – select from one of the following:
 1. Armstrong Flooring – Natural Creations - LVT
 2. Forbo Flooring – Marmoleum Comp Tile - MCT
 3. LG Floors – Deco Stone - LVT
 - D. Feature Strips: Of same material as tile.
 - E. All tiles in a room or space shall be from the same dye lot or run.
 - F. Provide and install color and pattern as selected by the Architect and Owner from manufacturer's standard colors and patterns.
- 2.4 MATERIALS - STAIR COVERING
- A. Stair Treads: RR-T-650E, Composition A, Type II, full width, and depth of stair tread in 1-piece; return down edge of tread with tapered thickness.
 1. Material: rubber
 2. Thickness: $\frac{1}{4}$ "
 3. Pattern: raised
 4. Design: smooth nosing
 - B. Stair Risers: Maintain height and length in one piece:
 1. Sheet Material: rubber
 2. Thickness: $\frac{1}{8}$ "
 - C. Stair nosing $2\frac{3}{8}$ " horizontal return, $1\frac{3}{8}$ " return down edge of tread, full width of stair tread in 1-piece:
 1. Material: rubber
 2. Thickness: $\frac{3}{16}$ "
 3. Pattern: smooth
 - D. Stair Skirting: Maintain width sufficient to provide 2" above stair nose, measured perpendicular to stair slope:
 1. Sheet Material: rubber
 2. Thickness: $\frac{1}{8}$ "
 3. Pattern: smooth
 - E. All material in a room or space shall be from the same dye lot or run.
- 2.5 MATERIALS - BASE
- A. Base: Top set coved or toeless; formed external corners:

1. Material: Rubber
 2. Height: 4"
 3. Thickness: $\frac{1}{8}$ " thick
 4. Length: Roll
- B. Base Accessories: Pre-molded end stops of same material, size and color as base.
- C. All base material in a room or space shall be from the same dye lot or run.
- D. Apply base with adhesive and in compliance with manufacturer's requirements.
- 2.6 ACCESSORIES
- A. Sub-floor Filler: Portland cement-based latex underlayment; type recommended by the flooring manufacturer.
- B. Primers and Adhesives: Provide waterproof; types recommended by flooring manufacturer.
- C. Edge Strips: Flooring material.
- D. Sealer and Wax: Types recommended by flooring manufacturer.
1. Sealer and wax applied shall meet or exceed the ADAAG slip resistance coefficient of 0.6 on static surfaces and 0.8 on ramps, submit documentation to the Architect and Owner.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify concrete floors are dry to moisture content required by the flooring manufacturer and exhibit negative alkalinity, carbonization, or dusting, follow Manufacturer's instructions.
- B. Verify floor and lower wall surfaces are free of substances that may impair adhesion of new adhesive and finish materials.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- B. Prohibit traffic in the space until any added filler properly cures.
- C. Scrape all and any materials and debris from concrete surface before installing any finish floor tile or sheets goods.
- D. Vacuum clean substrate

3.3 INSTALLATION - SHEET FLOORING

- A. Install in accordance with manufacturers' instructions.
- B. Spread only enough adhesive to permit installation of materials before initial set.
- C. Set flooring in place; press with heavy roller to attain full adhesion.
- D. Lay flooring with joints and seams in accordance with seaming plan.
- E. Install sheet flooring parallel to length of room.
1. Provide minimum of $\frac{1}{3}$ full roll width.
 2. Double cut sheet; provide continuously heat-welded seal.
- F. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
- G. Install edge strips at any unprotected exposed edge and where flooring terminates.
- H. Scribe flooring to walls, columns, cabinets, and other appurtenances to produce tight joints.
- I. Install flooring in pan type floor access covers and maintain floor pattern.
- J. At movable partitions, install flooring under partitions without interrupting floor pattern.
- K. Install feature strips, edge strips and floor markings where indicated and fit joints tightly.

3.4 INSTALLATION - TILE FLOORING

- A. Install in accordance with manufacturer's instructions.
- B. Mix tile from container to ensure shade variations are consistent in tile placement.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Set flooring in place; press with heavy roller to attain full adhesion.

- E. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
 - 1. Install tile to selected pattern, allow minimum 1/2 full size tile width at room or area perimeter.
 - F. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
 - G. Install resilient edge strips at any unprotected exposed edges and where flooring terminates.
 - H. Scribe flooring to walls, columns, cabinets, and other appurtenances to produce tight joints.
 - I. Install flooring in pan type floor access covers and maintain floor patterns.
 - J. At movable partitions, install flooring under partitions without interrupting floor pattern.
 - K. Install feature strips, edge strips and floor markings where indicated and fit joints tightly.
- 3.5 INSTALLATION - BASE
- A. Fit joints tight and vertical maintaining minimum measurement of 18" between joints.
 - B. Field mitered internal or exterior corners are acceptable provided workmanship produces results comparable to using premolded corner pieces.
 - C. Install base on solid backing and bond tight to wall and floor surfaces.
 - 1. Provide solid non-water absorbent material.
 - D. Scribe and fit to doorframes and other interruptions.
- 3.6 INSTALLATION - STAIR COVERING
- A. Install stair nosing, stair treads, and stair risers in one piece for full width and depth of tread.
 - B. Install stair skirting configured tight to stair and stringer profile.
 - C. Adhere over entire surface. Fit accurately and securely.
- 3.7 CLEANING
- A. Clean work under provisions of section 01 77 00.
 - B. Remove excess adhesive from floor, base, and wall surfaces without damage.
 - C. Clean, seal and wax floor and base surfaces in accordance with manufacturer's instructions, apply a minimum of 2-coats of acrylic polish at installation.
 - 1. Apply; prior to final acceptance, 6 additional coats of polish max no more than 4-coats in any 1-application).
 - 2. If installing pre-finished flooring, do not apply wax/polish.
- 3.8 PROTECTION OF FINISHED WORK
- A. Protect finished work under provisions of Section 01 50 00.
 - B. Prohibit traffic on floor finish for 48 hours after installation.

END OF SECTION