

ARCHITECTURAL GUIDE SPECIFICATIONS

MANNINGTON LINEAR STAIR TREADS

Section 09 65 13.23 – Resilient Stair Treads

[Thermoplastic Rubber – Type TP] and [Thermoplastic Vinyl – Type TV]

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SECTION 09 65 13.23
RESILIENT STAIR TREADS

PART 1 GENERAL

1.01 THIS SECTION INCLUDES

- A. Flooring and accessories as shown on the drawings and schedules and as indicated by the requirements of this section.

1.02 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract (including General and Supplementary Conditions and Division 1 sections) apply to the work of this section.
- B. ASTM D2240 Standard Test Method for Rubber Property – Durometer Hardness
- C. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
- D. ASTM-2169 “Standard Specification Resilient Stair Treads”.

1.03 RELATED SECTIONS

- A. Other Division 9 sections for floor finishes related to this section but not the work of this section.
- B. Division 3 Concrete; not the work of this section.
- C. Division 6 Wood and Plastics; not the work of this section.
- D. Division 7 Thermal and Moisture Protection; not the work of this section.

1.04 QUALITY ASSURANCE AND REGULATORY REQUIREMENTS

- A. Select an installer who is competent in the installation of Mannington Rubber/Vinyl Stair Treads with acrylic adhesive.
- B. If required, provide rubber/vinyl stair treads and accessories supplied by one manufacturer, including leveling and patching compounds, and adhesives.
- C. If required, provide rubber/vinyl stair treads material to meet the following fire test performance criteria as tested by a recognized independent testing laboratory:
 - a. ASTM E 648 Critical Radiant Flux of 0.45 watts per sq. cm. or greater, Class I.
 - b. ASTM E 662 (Smoke Generation) Maximum Specific Optical Density of 450 or less.

1.05 SUBMITTALS

- A. Submit shop drawings, seaming plan, coving details, and manufacturer's technical data, installation and maintenance instructions ("Mannington's Stair Tread Installation Instructions,") for flooring and accessories.
- B. Submit the manufacturer's standard samples showing the required colors for rubber tile flooring and applicable accessories.
- C. If required, submit the manufacturer's certification that the rubber/vinyl flooring has been tested by an independent laboratory and complies with the required fire tests.

1.06 ENVIRONMENTAL CONDITIONS

- A. Deliver materials in good condition to the jobsite in the manufacturer's original unopened containers that bear the name and brand of the manufacturer, project identification, and shipping and handling instructions.
- B. Store materials in a clean, dry, enclosed space off the ground, and protected from the weather and from extremes of heat and cold. Protect adhesives from freezing. Store

rubber/vinyl stair treads, adhesives and accessories in the spaces where they will be installed for at least 48 hours before beginning installation.

- C. Maintain a minimum temperature in the spaces to receive the rubber/vinyl stair treads and accessories of 65°F (18°C) and a maximum temperature of 85°F (29°C) for at least 48 hours before, during, and for not less than 48 hours after installation. Thereafter, maintain a minimum temperature of 55°F (13°C) in areas where work is completed. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.
- D. Install rubber/vinyl stair treads and accessories after the other finishing operations, including painting, have been completed. Close spaces to traffic during the installation of the flooring. Do not install flooring over concrete slabs until they are sufficiently dry to achieve a bond with the adhesive, in accordance with the manufacturer's recommended bond and moisture tests.

PART 2 PRODUCTS

2.01 STAIR TREAD MATERIALS

A. Linear Commercial 250 Rubber or Vinyl Stair Treads

- 1. Manufacturer/Product: Mannington Commercial; Commercial 250 Vinyl Stair Tread.
- 2. Product Description: [Rubber Type TP] or [Vinyl Type TV] with standard integral nosing.
 - A. Thickness: 1/4 inch (6.35 mm) tapering to 1/8 inch (3.175 mm).
 - B. Lengths: [3' (914.4 mm)], [3 1/2' (1066.8 mm)], [4' (1219.2 mm)], [6' (1828.8 mm)], [8' (2438.4 mm)], [12' (3657.6 mm)].
 - C. Depth: 12" (304.800 mm).
 - D. Nose: [Rubber Type TP] or [Vinyl Type TV] with profile of [Square, 1 5/8" (41. m)] [Round 1 1/2" (38.1 m)].
 - E. Color: Selection from manufacturer's standard array.

B. Linear Commercial 210 Vinyl Stair Tread

- 1. Manufacturer/Product: Mannington Commercial; Commercial 210 Vinyl Stair Tread.
- 2. Product/Description: Solid [Vinyl Type TV] with standard integral nosing.
 - A. Thickness: .210" (5.3 mm) tapering to 1/8 inch (3.175 mm).
 - B. Lengths: [3' (914.4 mm)], [3 1/2' (1066.8 mm)], [4' (1219.2 mm)], [6' (1828.8 mm)], [8' (2438.4 mm)], [12' (3657.6 mm)].
 - C. Depth: 12" (304.8 mm).
 - D. Nose: [Vinyl Type TV] with profile of [Square] 1 1/2" (38.1 mm).
 - E. Color: Selection from manufacturer's standard array.

C. Linear Commercial 150 Vinyl Stair Tread

- 1. Manufacturer/Product: Mannington Commercial; Commercial 150 Vinyl Stair Tread.
- 2. Product/Description: [Vinyl Type TV] with standard integral nosing.
 - A. Thickness: .150" (3.810 mm) tapering to 1/8" (3.175 mm).
 - B. Lengths: [3' (914.4 mm)], [3 1/2' (1066.8 mm)], [4' (1219.2 mm)], [6' (1828.8 mm)], [8' (2438.4 mm)], [12' (3657.6 mm)].
 - C. Depth: 12" (304.8 mm).
 - D. Nose: [Vinyl Type TV] with profile of [Square] or [Round]: 1 1/2" (38.100 mm).
 - E. Color: Selection from manufacturer's standard array.

D. Linear Rubber and Vinyl Visually Impaired Abrasive Strip Safety Stair Treads

1. Manufacturer/Products: Mannington Commercial; Visually Impaired Abrasive Strip Safety Tread
2. Products/Description: [(Rubber (Type - TP)), (Vinyl (Type - TV))] stair tread with highly visible, full 2 inch abrasive strip in contrasting or non-contrasting colors.
 - A. Thickness: 1/4" (6.350 mm) tapering to 1/8" (3.175 mm).
 - B. Lengths: [36" (914.400 mm)], [42" (1066.800 mm)], [48" (1219.200 mm)], [72" (1828.800 mm)], [96" (2438.400 mm)], [144" (3657.600 mm)].
 - C. Depth: 12 " (304.800 mm).
 - D. Nose: Square 1 5/8 " (41.275 mm)].
 - E. Tread Color: Selection from manufacturer's standard array.
 - F. Abrasive Strip Color:[Gray], [Yellow], [White], [Orange], [Red], [Brick], [Brown], [Black] [Hazard Black/Yellow]. Selection from manufacturer's standard array.
(Note: Coordinate contrasting colors when required to meet regulations).

2.03 ADHESIVES

- A. Provide Mannington Nose Filler as required [MR-715 Solvent-Free Epoxy Nose Filler] under the nosing. Provide [Mannington MR-911] for installation of the stair tread.

2.04 ACCESSORIES

- A. For patching, smoothing, and leveling monolithic subfloors (concrete, terrazzo, quarry tile, ceramic tile, and certain metals), provide Mannington [MVP-2023 Cement-Based Underlayment].
- B. For sealing joints between the top of wall base or integral cove cap and irregular wall surfaces such as masonry, provide plastic filler applied according to the manufacturer's recommendations.
- C. Provide transition/reducing strips tapered to meet abutting materials.
- D. Provide threshold of thickness and width as shown on the drawings.
- E. Provide resilient edge strips of width shown on the drawings, of equal gauge to the flooring, homogeneous vinyl or rubber composition, tapered or bullnose edge, with color to match or contrast with the flooring, or as selected by the Architect from standard colors available.

PART 3 EXECUTION -These guidelines do not supersede Mannington's Installation Instructions.

3.01 INSPECTION

- A. Examine subfloors prior to installation to determine that surfaces are smooth and free from cracks, holes, ridges, and other defects that might prevent adhesive bond or impair durability or appearance of the flooring material.
- B. Inspect subfloors prior to installation to determine that surfaces are free from curing, sealing, parting and hardening compounds; residual adhesives; adhesive removers; and other foreign materials that might prevent adhesive bond. Visually inspect for evidence of moisture, alkaline salts, carbonation, dusting, mold, or mildew.
- C. Report conditions contrary to contract requirements that would prevent a proper installation. Do not proceed with the installation until unsatisfactory conditions have been corrected.
- D. Failure to call attention to defects or imperfections will be construed as acceptance and approval of the subfloor. Installation indicates acceptance of substrates with regard to conditions existing at the time of installation.

3.02 PREPARATION

- A. Smooth concrete surfaces, removing rough areas, projections, ridges, and bumps, and filling low spots, control or construction joints, and other defects with Mannington [MVP-2023 Cement-Based Underlayment] as recommended by the flooring manufacturer.
- B. Remove paint, varnish, oils, release agents, sealers, and waxes. Remove residual adhesives as

recommended by the flooring manufacturer. Remove curing and hardening compounds not compatible with the adhesives used, as indicated by a bond test or by the compound manufacturer's recommendations for flooring. Avoid organic solvents.

- C. Vacuum or broom-clean surfaces to be covered immediately before the application of flooring. Make subfloor free from dust, dirt, grease, and all foreign materials.

3.03 INSTALLATION OF FLOORING

- A. Install flooring in strict accordance with the "Mannington Rubber Stair Tread Installation Instructions".
- B. Install flooring wall to wall before the installation of floor-set cabinets, casework, furniture, equipment, movable partitions, etc. Extend flooring into toe spaces, door recesses, closets, and similar openings as shown on the drawings.
- C. If required, install flooring on pan-type floor access covers. Maintain continuity of color and pattern within pieces of flooring installed on these covers. Adhere flooring to the subfloor around covers and to covers.
- D. Scribe, cut, and fit to permanent fixtures, columns, walls, partitions, pipes, outlets, and built-in furniture and cabinets.
- E. Install flooring with adhesives, tools, and procedures in strict accordance with the manufacturer's written instructions. Observe the recommended adhesive trowel notching, open times, and working times.

3.04 INSTALLATION OF ACCESSORIES

- A. Apply top set wall base to walls, columns, casework, and other permanent fixtures in areas where top-set base is required. Install base in lengths as long as practical, with inside corners fabricated from base materials that are mitered or coped. Tightly bond base to vertical substrate with continuous contact at horizontal and vertical surfaces.
- B. Fill voids with plastic filler along the top edge of the resilient wall base or integral cove cap on masonry surfaces or other similar irregular substrates.
- C. Place resilient edge strips tightly butted to flooring, and secure with adhesive recommended by the edge strip manufacturer. Install edge strips at edges of flooring that would otherwise be exposed.
- D. Apply [butt-type] [overlap] edge strips where shown on the drawings, [before] [after] flooring installation. Secure units to the substrate, complying with the edge strip manufacturer's recommendations.

3.05 CLEANING AND PROTECTION

- A. Perform initial maintenance according to the latest edition of the manufacturer's maintenance and warranty literature. Protect installed flooring as recommended by the flooring manufacturer against damage from rolling loads, other trades, or the placement of fixtures and furnishings.