SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Resilient base.
2. Resilient stair accessories.
3. Resilient molding accessories.

B. Related Sections:

1. Division 09 Section "Resilient Tile Flooring" for resilient floor tiles.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples for Initial Selection: Where color is not already specified on Drawings.

C. Samples for Verification: For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches (300 mm) long, of each resilient product color, texture, and pattern required.

D. Product Schedule: For resilient products. Use same designations indicated on Drawings.

1.4 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C).

1.6 PROJECT CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive resilient products during the following time periods:

1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).

C. Install resilient products after other finishing operations, including painting, have been completed.

1.7 EXTRA MATERIALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, of each type, color, pattern, and size of resilient product installed.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Available manufacturers offering products that may be incorporated into the Work include:

1. Allstate Rubber Corp.; Stoler Industries.
2. Armstrong World Industries, Inc.
3. Burke Mercer Flooring Products; Division of Burke Industries, Inc.
4. Endure Rubber Flooring; Division of Burke Industries, Inc.
5. Estrie Products International; American Biltrite (Canada) Ltd.
6. Flexco, Inc.
7. Johnsonite, Inc.
8. Mondo Rubber International, Inc.

9. Musson, R.C. Rubber Co.
10. Nora Rubber Flooring; Freudenberg Building Systems, Inc.
11. PRF USA, Inc.
12. Roppe Corporation, USA
13. VPI, LLC; Floor Products Division.

2.2 RESILIENT BASE – B-1

A. Basis-of-Design: Subject to compliance with requirements, provide products by Johnsonite, Inc., or a comparable product by one of the above-listed manufacturers.

B. Resilient Base Standard: ASTM F 1861.

1. Material Requirement: Type TV (vinyl, thermoplastic).
2. Manufacturing Method: Group I (solid, homogeneous).
3. Style: Cove (base with toe).

C. Minimum Thickness: 0.125 inch (3.18 mm).

D. Height: 4 inches (102 mm).

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Preformed.

G. Inside Corners: Preformed.

H. Finish: Satin.

I. Colors and Patterns: As selected by Architect from manufacturer’s full range.

2.3 RESILIENT STAIR ACCESSORIES – RST-1.

A. Resilient Stair Treads:

1. Basis-of-Design Product: Subject to compliance with requirements, provide VIRH – SQ (Visually Impaired) Roundel Square Raised Disk Pattern Rubber Stair Treads by Johnsonite, Inc., or a comparable product for review and approval by Architect.

B. Resilient Stair Treads Standard: ASTM F 2169.

1. Material Requirement: Type TS (rubber, vulcanized thermoset).

2. Surface Design:

a. Class 2, Pattern: Raised-disc design.

3. Manufacturing Method: Group 2, tread with contrasting color for the visually impaired.

C. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.

D. Nosing Height: 2 inches (5.08 cm).

E. Thickness: 0.210 inch (5.33 mm) to 0.113 inch (2.87 mm), tapered.

F. Tread Insert: 2 inch (51 mm) wide contrasting solid rubber color insert for the visually impaired.

G. Size: Lengths and depths to fit each stair0 tread in one piece.

H. Risers: To be painted. Refer to Section 099123 “Interior Painting.”

I. Landings: Rubber Tile (RT-1) – Roundel Square Raised Disk Pattern in manufacturer’s 0.125 inch (3.2 mm) thick, 24 inch (61 cm) square rubber tiles.

a. Vinyl Stair Nosing: Top set with 2 inch co-extruded visually impaired strip for use at edge of landing abutting stair flight down.

J. Colors and Patterns: As scheduled on Drawings, or as selected by Architect from manufacturer’s full range.

2.4 RESILIENT MOLDING ACCESSORY

A. Basis-of-Design Product: Subject to compliance with requirements, provide products by Johnsonite, Inc**.**, or comparable products submitted for review and approval by Architect.

B. Description: Carpet edge for glue-down applications; Reducer strip for resilient tile floor covering; Joiner for resilient tile and carpet.

C. Material: Vinyl.

D. Profile and Dimensions: As indicated on Drawings and as follows:

1. Transitions between Resilient Floorings of Same or Different Thickness: Johsonite Types CTA-XX-N and CTA-XX-X.
2. Transitions between Resilient Flooring and Sealed Concrete and Thin-Set Flooring: Johnsonite RRS-XX-D; CTA-XX-PL
3. Transitions between Carpet and Resilient Flooring: Johnsonite CTA-XX-JL or CTA-XX-A.

E. Colors and Patterns: As selected by Architect from full range of manufacturer’s colors.

2.5 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

a. Cove Base Adhesives: Not more than 50 g/L.
b. Rubber Floor Adhesives: Not more than 60 g/L.

C. Floor Cleaner/Detergent: Provide pH nuetral liquid floor cleaning products as recommended by resilient stair tread manufacturer.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products

B. Concrete Substrates for Resilient Stair Treads and Accessories: Prepare according to ASTM F 710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

4. Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.

   a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.

   or

   b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have maximum 75 percent relative humidity level measurement.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install resilient products until they are same temperature as the space where they are to be installed.

   1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

G. Preformed Corners: Install preformed corners before installing straight pieces.

3.4 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Stair Accessories:

1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
2. Tightly adhere to substrates throughout length of each piece.
3. For treads installed as separate, equal-length units, install to produce a flush joint between units.

C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install specified transition strips at transition between resilient flooring and carpet or thin-set terrazzo; and between different types of resilient flooring. Install specified transition strips at edges of carpet and resilient floor coverings that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.

B. Perform the following operations immediately after completing resilient product installation:

1. Remove adhesive and other blemishes from exposed surfaces.
2. Sweep and vacuum surfaces thoroughly.
3. Damp-mop surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Neutral Cleaner/Detergent: Remove soil, visible adhesive, and surface blemishes from resilient stair treads using manufacturer’s recommended cleaning and conditioning solution mixed with water.

E. Cover resilient products until Substantial Completion.

END OF SECTION 096513