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PRODUCT GUIDE SPECIFICATION

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all Specifier Notes when editing this section.

SECTION 07761

DURASTRONG® RUBBER PAVING TILES

Specifier Notes: This section covers sofSURFACES' duraSTRONG resilient, interlocking pavers used for architectural rooftop applications, ballast, patios, walkways and decks etc. Consult sofSURFACES for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Resilient, interlocking, architectural rubber paving tiles.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

Include the section number and title of the following two Division 7 section. Delete, if paving tiles will be installed over an existing roof.

- A. Section 07_____ – _____ Roofing.
- B. Section 07720 – Rubber Paving Tile Accessories.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards but is merely a listing of those used.

- A. ASTM C 67 – Standard Test Method Methods for Sampling and Testing Brick and Structural Clay Tile.
- B. ASTM D 395 – Standard Test Methods for Rubber Property—Compression Set.
- C. ASTM D 412 – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension.
- D. ASTM D 573 – Standard Test Method for Rubber-Deterioration in an Air Oven.
- E. ASTM D 624 – Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- F. ASTM D 1667 – Standard Specification for Flexible Cellular Materials, Vinyl Chloride Polymers and Copolymers (Closed-Cell Foam).

- G. ASTM D 2047 – Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as measured by the James Machine.
- H. ASTM D 2859 – Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.

Specifier Notes: Include ASTM E 108 when specifying duraSTRONG Premium Series Rubber Paving Tiles.
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- I. ASTM E 108 – Standard Test Methods for Fire Tests of Roof Coverings.
- J. ASTM E 303 – Standard Test Method for Measuring Surface Frictional Properties using the British Pendulum Tester.

1.4 SUBMITTALS

- A. Comply with Section 01330 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Samples: Submit manufacturer's sample of 1 full tile.
- D. Certificate of Compliance: Submit manufacturer's certificate of compliance indicating materials comply with specified requirements.
- E. Manufacturer's Project References:
 - 1. Submit list of successfully completed projects.
 - 2. Include project name and location, name of architect, and type and quantity of duraSTRONG Rubber Paving Tiles furnished.
- F. Installer's Project References:
 - 1. Submit list of successfully completed projects.
 - 2. Include project name and location, name of architect, and type and quantity of rubber paving tiles installed.
- G. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.
- H. Warranty: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer shall meet a minimum of 1 of the following 2 requirements:
 - 1. Continuously engaged in manufacturing of rubber paving tiles of similar type to that specified, with a minimum of 10 years successful experience.
 - 2. Furnished a minimum of 1,000,000 square feet of rubber paving tiles of similar type to that specified.
- B. Installer's Qualifications:
 - 1. Successful experience in installation of rubber paving tiles of similar type to that specified, with a minimum of 10 projects completed within the last five years.
 - 2. Employ persons trained for installation of rubber paving tiles.
 - 3. Approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
 - 1. Store materials in accordance with manufacturer's instructions.
 - 2. duraSTRONG Rubber Paving Tiles:
 - a. Store paving tiles in a dry area at a minimum temperature of 50°F (10°C) for a minimum of 72 hours before installation.
 - b. Protect rubber paving tiles from direct sunlight before installation.
 - 3. Adhesive: Store adhesive in a dry area at a minimum temperature of 50°F (10°C).
- C. Handling: Protect materials during handling and installation to prevent damage.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Tile Temperature: Ensure surface temperature of rubber paving tiles is a minimum of 40 °F (4°C) at time of installation.

- B. Air Temperature: Ensure air temperature is a minimum of 40°F (4°C) for a minimum of 24 hours before and during installation.

1.8 WARRANTY

- A. Materials: duraSTRONG Rubber Paving Tiles shall be warranted for defects in material and workmanship for a limited lifetime of the surface from the date of completed installation.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. sofSURFACES Inc., 4393 Discovery Line, Petrolia, ON Canada N0N 1R0.
Toll Free (800) 263-2363. Phone (519) 882-8799. Fax (519) 882-2697
Website: www.sofSURFACES.com/durastrong. E-mail info@sofSURFACES.com.

Specifier Notes: If a local representative is to be the key contact for questions and/or pricing their name and contact information should be included here.

2.2 DURASTRONG RUBBER PAVING TILES

- A. Tiles: duraSTRONG Rubber Paving Tiles

Specifier Notes: Specify Plus or Premium Series of duraSTRONG Rubber Paving Tiles. Specify Plus series solid colors for general applications where custom color is not a primary design requirement. Specify Premium series when increased color stability or a wider range in color options and specific fire ratings are desired. Consult sofSURFACES for assistance in determining a required series.

1. Series: [Plus] [Premium 10% Color, 35% Color, 70% Color and 95% Color EPDM Skin Series Blends]
2. Description: Resilient, interlocking, architectural rubber paving and ballast tiles.
3. Material: Compression-molded, recycled rubber and binding agents.
4. Tile Locking: U-shaped male and female locking mechanism on all 4 sides of the tile (patented KROSLOCK Tile Locking System) to support tile-to-tile adhesion while ensuring tiles are held in place.
5. Top Edges: Chamfered.
6. Tile Sides: Proprietary edge-cut (glue channel) system for maximum seam adhesion.

7. Wear Layer: Plus Series is compression molded to obtain optimum density and durability. Premium series features an EPDM blended skin for maximum color performance and wear durability.

Specifier Notes: Specify Plus Series or Premium Series Rubber Playground Tiles.

- a. Plus Series: Combination of elongated SBR rubber and granulated crumb rubber. Pigmentation used to achieve color. Minimum 0.375 inch thick.
 - b. Premium Series: Laminated EPDM Virgin rubber granules. Minimum 0.125" (3 mm) thick.
8. Manufactured Size:

Plus Series: 24 1/2" X 24 1/2" +/- 1/8".
Installed Size: 24" X 24" or (24" Centers).

Premium Series Blends: 24 3/8" X 24 3/8" +/- 1/8".
Installed Size: 24.125" X 24.125" (24.125" Centers).

Specifier Notes: Specify thickness of the playground safety surfacing tiles based on the critical fall height (CFH). Consult sofSURFACES for assistance in determining required thickness.

9. Thickness: [2.00"] or [4.00"]

Specifier Notes: Specify minimum weight of each tile based on Plus or Premium Series and required thickness.

10. Minimum Weight Each Tile:

- a. Plus Series Solid Colors: [Midnight Black] [Terracotta] [Turf Green] [Ocean Blue] [Saddle Brown] [Slate Gray]:
 - 1) 2.00" Thickness: 24.60 pounds.
 - 2) 4.00" Thickness: 33.81 pounds.
- b. Premium Skin Series Color Blends (all blends):
 - 10% Color: [Black] [Blue] [Red] [Yellow] [Green] [Light Gray] [Medium Gray]
 - 35% Color: [Pewter] [Ivory] [Pumpkin Spice] [Sapphire] [Shamrock] [Lava]

70% Color: [Smoke] [Aquamarine] [Forest Green] [Red Rock]
95% Color: [Sedona] [Sierra Brown] [Tuscan Red] [Denim] [Safari] [Graphite]
[Sangria] [Emerald Green] [Azure]

- 1) 2.00" Thickness: 25.05 pounds.
- 2) 4.00" Thickness: 32.45 pounds.

11. Colors:

Specifier Notes: Specify colors for Plus or Premium Series rubber paving tiles. Any combination of colors within a series, can be used to create a unique appearance. Plus Series Solid colors may not be combined with Premium Series color blends. Custom color blends are available upon request. Consult sofSURFACES for pricing, availability and lead times.

- a. Plus Series: [Midnight Black] [Terracotta] [Turf Green] [Ocean Blue] [Saddle Brown] [Slate Gray] [As indicated on the Drawings].

- b. Premium Skin Series:

10% Color: [Black] [Blue] [Red] [Yellow] [Green] [Light Gray] [Medium Gray]
35% Color: [Pewter] [Ivory] [Pumpkin Spice] [Sapphire] [Shamrock] [Lava]
70% Color: [Smoke] [Aquamarine] [Forest Green] [Red Rock]
95% Color: [Sedona] [Sierra Brown] [Tuscan Red] [Denim] [Safari] [Graphite]
[Sangria] [Emerald Green] [Azure] [Other/Custom: _____] [As indicated on the Drawings].

B. Test Results:

Specifier Notes: Specify test results for Plus or Premium Skin Series rubber paving tiles.

1. Freeze Thaw, ASTM C 67: No deterioration.
2. Rubber Deterioration/Air Oven, ASTM D 573: No deterioration.
3. Slip Resistance:
 - a. ASTM E 303:
 - 1) Dry: 51 minimum.
 - 2) Wet: 44 minimum.
 - b. ASTM D 2047:
 - 1) Plus: 0.533.
 - 2) Premium: 0.601.

Specifier Notes: Specify test results for Plus or Premium Skin Series playground surfacing tiles.

4. Tensile Strength, ASTM D 412:

- a. Plus Series: 0.661 Mpa
 - b. Premium Series: 331 psi
- 5. Elongation at Break, ASTM D 412:
 - a. Plus Series: 68.5 percent.
 - b. Premium Series: 119%
- 6. Tear Strength, ASTM D 624:
 - a. Plus Series: 2.2 kNm
 - b. Premium Series: 16.3 kNm
- 7. Flammability:
 - a. Burning Pill, ASTM D 2859: Pass.
- 8. Density, ASTM D 3676:
 - a. Plus Series: 817 kg/m³.
 - b. Premium Series: 859 kg/m³
- 9. Taber Abrasion, Wear index, ASTM C 501:
 - a. Plus Series: 205
 - b. Premium Series: 167

2.3 ACCESSORIES

- A. Corners:
 - 1. Prefabricated outside and inside corners.
 - 2. Material: Same as rubber paving tiles.
- B. Ramps:
 - 1. Prefabricated Ramps: "sofRAMP".
 - 2. Prefabricated ADA-Compliant Ramps: "sofRAMP ADA".
 - 3. Material: Same as rubber paving tiles.
- C. Adhesive:
 - 1. Approved and furnished by manufacturer.
 - 2. Single-component, 100% solids, polyurethane.
 - 3. Waterproof and supplied in tube format.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive rubber paving tiles. Notify architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 PREPARATION

Specifier Notes: Due to the porosity of duraSTRONG rubber paving tiles, it is critical that a proper drainage system be in place.

- A. Prepare subsurface in accordance with manufacturer's instructions to ensure proper slope, support and drainage for rubber paving tiles.

Specifier Notes: Include the section number of the following Division 7 section for new membrane roofing. Delete the following sentence if roof pavers will be installed over an existing roof.

- B. Sub-surface shall be as specified in Section 07_____.
- C. Ensure existing sub-surface is clean and sound with no cracks or loose material.

3.3 INSTALLATION

- A. Install rubber paving tiles in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Apply adhesive in accordance with manufacturer's instructions for tile-to-tile installation.
- C. Cut rubber paving tiles to fit around fixed obstacles.
- D. Install additional rubber paving tiles securement at perimeter in accordance with manufacturer's instructions.

3.4 CLEANING

- A. Remove adhesive spills from rubber paving tiles in accordance with manufacturer's instructions.
- B. Clean rubber paving tiles in accordance with manufacturer's instructions.

3.5 PROTECTION

- A. Protect completed tiles from damage during construction.
- B. Protect rubber paving tiles from foot traffic for a minimum of 12 hours after installation.

END OF SECTION