

SECTION 09622

RUBBER RECREATIONAL AND ATHLETIC FLOORING

PART GENERAL

SECTION INCLUDES

Rubber Recreational and Athletic Flooring.

RELATED SECTIONS

Section 03300 - Cast-In-Place Concrete.

Section 06100 - Rough Carpentry.

REFERENCES

ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers--Tension.

ASTM D 624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.

ASTM D 746 - Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact.

ASTM D 2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.

ASTM D 2240 - Standard Test Method for Rubber Property--Durometer Hardness.

ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

MIL-M-15562 - Dielectric Strength.

NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's descriptive literature for specified flooring tiles; include documentation of conformance to specified requirements.

Shop Drawings: Dimensioned plans, to scale, indicating layout of flooring tiles in areas to receive them.

Selection Samples: Two sets of color chips representing manufacturer's full range of available flooring tile colors.

Verification Samples: Two samples, minimum size 6 inches (152 mm) square, representing actual color and finish of flooring tiles to be installed.

Quality Assurance Submittals: Manufacturer's printed installation instructions; include product storage requirements.

Closeout Submittals:

Manufacturer's recommendations for cleaning and maintaining flooring.

Warranty documents specified in WARRANTY Article of PART 1 of this section.

QUALITY ASSURANCE

Qualifications:

Manufacturer: Minimum five (5) years documented experience producing flooring similar to those specified in this section.

Installer: Minimum three (3) years documented experience installing flooring similar to those specified in this section.

DELIVERY, STORAGE, AND HANDLING

Store flooring tile in manufacturer's unopened packaging until installation.

Maintain storage area conditions for flooring tile in accordance with manufacturer's instructions until installation.

Do not store flooring tile outside.

Do not store unprotected flooring tile under fluorescent lighting for period longer than 30 calendar days; cover flooring tile with dark color polyethylene sheeting, or other light-protective covering.

PROJECT CONDITIONS

Field Measurements: When project conditions permit, take field measurements of areas to receive flooring tile; note discrepancies on submitted shop drawings.

WARRANTY

Manufacturer's Warranty: Manufacturer's standard warranty against defects in products.

MAINTENANCE

Extra Materials: Supply extra floor tiles, in quantities to equal 5 percent of installed tile for each type tile specified, for Owner's maintenance stock.

PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: Pawling Corporation, Standard Products Division; Borden Lane, P.O. Box 200, Wassaic NY 12592; ASD. Tel. (800) 431-3456 (U.S. and Canada) or (914) 373-9300; Fax. (800) 451-2200 (U.S. and Canada) or (914) 373-8712; E-mail address sales@pawling.com

Substitutions: Not permitted.

RUBBER RECREATIONAL AND ATHLETIC FLOORING

Characteristics:

Specific gravity: 1.47 +/-0.03.

Tensile strength, when tested in accordance with ASTM D 412: 650 pounds per square inch (4.48 Mpa).

Hardness, when tested in accordance with ASTM D 2240: Durometer Shore A 55 +/-5.

Elongation, when tested in accordance with ASTM D 412: 550 percent.

Tear resistance, when tested in accordance with ASTM D 624: 75 pounds per square inch (0.51 Mpa).

Temperature stability range, when tested in

accordance with ASTM D 746: -30 degrees F (-34.4 degrees C) to 120 degrees F (48.8 degrees C).
Shrinkage, after 7 days at 212 degrees F (100 degrees C): 2 percent.
Dielectric strength, in accordance with MIL-M-15562: 37,000 volts.
Conductivity: Non-conductive.

Flooring: Pro-Tek Hid-N-Lok(R) II, Style HL-150.
Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.
Size: 24 inches (609.6 mm) square.
Thickness: 3/8 inches (9.5 mm).
Weight: 11 pounds (4.9 kg), each tile.
Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.
Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.
Surface: Polished top surface; (4) 12-inch (304.8 mm) squares per tile.
Color: _____; solid color throughout full tile thickness.
Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

Flooring: Pro-Tek Hid-N-Lok(R) II, Style HL-100.
Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.
Size: 24 inches (609.6 mm) square.
Thickness: 9/16 inches (14.2 mm).
Weight: 16 pounds (7.2 kg), each tile.
Static coefficient of friction, when tested in accordance with ASTM D 2047: Dry 0.84; Wet 0.90.
Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.
Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.
Surface: Sand-blasted soft-etch textured surface; (16) 5 1/2-inch (39.7 mm) raised squares per tile.
Color: _____; solid color throughout full tile thickness.
Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

Flooring: Pro-Tek Gymtile(TM)/Flip-It(TM), Style FL-100.
Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.
Size: 24 inches (609.6 mm) square.
Thickness: 9/16 inches (14.2 mm).
Weight: 16 pounds (7.2 kg), each tile.
Static coefficient of friction, when tested in accordance with ASTM D 2047: Dry 0.84; Wet 0.90.
Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.
Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.
Surface: Etched surface.
Color: _____; solid color throughout full tile thickness.
Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

Flooring: Pro-Lok I(TM), Style PL-100.
Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.
Size: 24 inches (609.6 mm) square.
Thickness: 7/16 inches (11.1 mm).
Weight: 10 pounds (4.5 kg), each tile.
Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.
Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.
Top surface: Textured raised discs of alternating sizes.
Bottom surface: Knob and groove design with air flow slots for increased air movement, speeding evaporation.
Color: _____; solid color throughout full tile thickness.
Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

Flooring: Aerobic Tile - Traction Top, Style PL-200.
Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.
Size: 24 inches (609.6 mm) square.
Thickness: 9/16 inches (14.2 mm).
Weight: 14 pounds (6.3 kg), each tile.

Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.

Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.

Top surface: Raised-nub traction surface, slip-resistant.

Bottom surface: Knob design, aerating and impact-cushioning.

Color: _____; solid color throughout full tile thickness.

Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

Flooring: Aerobic Tile - Polish Top, Style PL-300.

Composition: Virgin SBR rubber; compositions using reclaimed or reprocessed rubber not permitted.

Size: 24 inches (609.6 mm) square.

Thickness: 3/8 inches (9.5 mm).

Weight: 10 pounds (4.5 kg), each tile.

Flammability, when tested in accordance with NFPA 253 and ASTM E 648: Critical Radiant Flux 0.44 watts/cm², Class II.

Tile-to-tile interlock: Hidden interlock feature, which hides interlocks beneath tile surface; five (5) interlocks per side.

Top surface: Polished top; four (4) 12-inch (304.8 mm) squares per tile.

Bottom surface: Knob design, aerating and impact-cushioning.

Color: _____; solid color throughout full tile thickness.

Color: Custom color matching Architect's sample; solid color throughout full tile thickness.

PART EXECUTION

EXAMINATION

Verify that sub-floors to receive flooring are level to within flooring manufacturer's requirements, and without large cracks, depressions, or indentations.

Installer's Examination:

Have installer of this section examine conditions under which construction activities of this section

are to be performed, then submit written notification if such conditions are unacceptable.

Transmit two copies of installer's report to Architect within 24 hours of receipt.

Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.

Beginning construction activities of this section indicates installer's acceptance of conditions.

PREPARATION

Remove dust, debris, moisture, and powder accumulations from surfaces to receive flooring.

INSTALLATION

Install flooring, without adhesives, in accordance with shop drawings and manufacturer's instructions.

PROTECTION

Protect installed products of this section from damage to function or finish by subsequent construction activities.

Repair minor damage to finishes in accordance with manufacturer' recommendations.

Replace products having damage to function, and products having damage to finishes which cannot be repaired to Architect's acceptance.

END OF SECTION