

*General Disclaimer*

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**I Part One - General**

**1.01 RELATED SECTIONS**

*Spec Note: List appropriate Sections for related work specific to project. Modify header/footer as applicable.*

- .A Section [02300]: Site Preparation.
- .B Section [02880]: Playground Equipment.

**1.02 REFERENCES**

- .A CSA A126.4, Rubber Floor Tile.
- .B BS 7188:1998.Resistance to Abrasive Wear.
- .C BS 7188:1998 Slip Resistance.
- .D BS 7188:1998.Ease of Ignition.
- .E BS 7188:1998 Resistance to Indentation.
- .F BS 7188:1998 Tensile Strength.
- .G BS 7188:1998 Elongation at Break
- .H ASTM F 1344-03, Standard Specification for Rubber Floor Tile.
- .I ASTM WK 463, Standard Specification for Resilient Sports Flooring.
- .J ASTM E648-03 Critical Radiant Heat Flux
- .K ASTM F1292-09 Impact Attenuation

**1.03 SUBMITTALS**

- .A Submit samples in accordance with Section [ ] - [ ].
- .B Submit duplicate 12 inch square sample pieces of sheet material.
- .C Submit Material Safety Data Sheets for installation adhesives, cleaners and sealers.
- .D Submit layout drawing of safety [tiles] [mats] to [Owner] [Consultant] [Engineer] for review prior to starting any work.

**1.04 CLOSEOUT SUBMITTALS**

- .A Provide maintenance data for safety tiles for incorporation into maintenance manual specified in Section [ ] – [ ].

**1.05 EXTRA MATERIALS**

- .A Provide extra materials of safety tiles and adhesives in accordance with Section [ ] – [ ].
- .B Provide [ ] sq ft, [ ] % of each [color], and [type] of safety tile required for project for maintenance use.
- .C Extra materials to be from same production run as installed materials.
- .D Clearly identify each type of safety tile and each container of adhesive.
- .E Deliver to [Owner] [Architect], upon completion of the work of this section.
- .F Store where directed by [Owner] [Engineer] [Consultant].

**1.06 DELIVERY, STORAGE AND HANDLING**

- .A Deliver safety tile materials undamaged with manufacturer's labels intact.
- .B Store safety tile materials in a protected area on site a minimum of 24 hours prior to installation.
- .C Store safety tile materials flat on pallets, blocked off ground.
- .D Prevent damage or contamination to safety tiles from water, moisture, freezing, excessive heat, direct sunlight and construction dust or dirt.
- .E Protect safety tiles from construction activities. Provide tarpaulins or plastic coverings blocked to allow ventilation and prevent contamination from dust or debris.

**1.07 ENVIRONMENTAL REQUIREMENTS**

- .A Store safety tile materials and accessories in a protected, clean, dry location at minimum 40°F temperature.

**1.08 WARRANTY**

- .A Supply manufacturer's 10 Year limited warranty against defects in materials or workmanship for PlayFall<sup>®</sup> from date of purchase.
- .B Supply manufacturer's standard limited warranty against wear exceeding ¼" per year when recommended installation and maintenance guidelines are followed.

**Note:** *Warranty void if tiles are installed using a full-spread adhesive application.*

**II Part Two - Products**

**2.01 MATERIALS**

*Spec Note: Select appropriate product(s) and/or options listed in brackets*

**.A Rubber Safety Tile System:**

- .1 Tile Composition: 100% recycled SBR truck tire rubber buffings and granules in non-toxic polyurethane binder. Two layer formation with higher density upper layer and lower density lower layer. Standard colors produced with pigment additive in binder.
- .2 Pad Composition: 100% post industrial cross-linked closed cell polyurethane physically bonded with a PET geotextile laminated to the foam.
- .3 Size:  
Tile: 2 ft x 2 ft tiles with 1 ft x 1 ft cross-hatch surface pattern.  
Pad: 4 ft x 4 ft pad
- .4 Color:  
Standard - Basic Series: [black], [terra cotta], [green].
- .5 Thickness:  
Single Tile: [1.75 in] or [2.5 in]  
Pad: [1.5 in]
- .6 Weight:  
1.75 in. tile [~20 lbs] or [~5 lbs/sqft]  
2.5 in. tile [~26 lbs] or [~6.5 lbs/sqft]  
1.5 in. pad [~.85 lbs/sqft]
- .7 Interlock Pins: PVC pins, 5/8 in. diameter x 3 in. lengths.
- .8 Material Properties:
  - .1 BS 7188:1998. Resistance to Abrasive Wear. Good
  - .2 BS 7188:1998 Slip Resistance. Good
  - .3 BS 7188:1998. Ease of Ignition. Low radius
  - .4 BS 7188:1998 Resistance to Indentation. No cracking or splitting
  - .5 BS 7188:1998 Tensile Strength. 0.88
  - .6 BS 7188:1998 Elongation at Break 174
  - .7 ASTM E648-03 Critical Radiant Heat Flux .08
  - .8 Impact Attenuation: ASTM F1292-09  
4 ft fall ht., 1.75 in. (45mm) tile  
6 ft fall ht., 2.5 in. (65mm) tile  
8 ft fall ht., 3.5 in. (85mm) [1.75" tile + 1.5" Pad]  
10 ft fall ht., 4 in. (105mm) [2.5" tile + 1.5" Pad]  
12 ft fall ht., 5.5 in. (140mm) tile: [2.5" tile + (2) 1.5" Pad]  
14 ft fall ht., 7 in (178mm) tile: [2.5" tile + (3) 1.5" Pad]
- .8 Acceptable product: PlayFall<sup>®</sup> and PlayPad as manufactured for North West Rubber 33850 Industrial Avenue, Abbotsford, BC. Canada V2S 7T9 Phone 1-800-663-8724 Fax 1-604-859-2009 E-mail [sales@northwestrubber.com](mailto:sales@northwestrubber.com)

**2.02 ACCESSORIES**

- .A Beveled Edge Ramps for transitions from grade to top surface of tile.
  - .1 40 in. x 8 in. x 1.75 to .25 in.
  - .2 40 in. x 9 in. x 2.5 to .25 in.
  - .3 40 in. x 10 in. x 3 to .25 in.
  - .4 40 in. x 10 in. x 3.25 to .25 in.
  - .5 40 in. x 10 in. x 4.00 to .25 in.
- .B Adhesive: Manufacturer's proprietary products.
  - .1 PlayFall PF825 Edge Adhesive
  - .2 PlayFall/SportFloor 2 part Adhesive for perimeter base to tile detail.
- .C Geotextile Landscape Fabric: Heavy duty landscape fabric permeable bearer cloth.

**III Part 3 - Execution**

**3.01 SITE VERIFICATION OF CONDITIONS**

- .A Examine site areas to be covered and report any deficiencies to the Contractor. Do not proceed with installation until substrates and site preparations comply with manufacturer's requirements for installation.
- .B Ensure substrate is sloped a minimum of 2% for drainage and either a mechanical or a natural rain water collection system is in place.
- .C Inspect safety tiles and accessories to ensure proper quantity and integrity of materials.
- .D Refer to manufacturer's written installation manual for preparation and installation details.

*Spec Note: Select appropriate substrate preparation recommendations as listed by safety tile manufacturer and include in appropriate Site Preparation Section(s). Refer to Geotechnical Investigation Report for project site and follow recommendations for excavation and sub-base preparation.*

**3.02 PREPARATION**

- .A Ensure [concrete] [compacted granular surface] is complete, clean, dry and inspected by [Owner] [Architect].
- .B Ensure all play structure equipment installations are complete.

*Spec Note: Select appropriate substrate*

- .C Hard Surface Base:
  - .1 Ensure substrate is clean, dry and free of all loose materials, oils, or previous floor finishes that would prevent secure bonding of adhesive.
  - .2 Level all bumps, protrusions, cracks or uneven surfaces before installing safety tiles.
  - .3 Ensure new concrete substrates are thoroughly cured a minimum of 28 days, have acceptable moisture content and are not subject to hydrostatic water pressure.]

.D Compacted Granular Base:

- .1 Ensure grass, ground cover, soils and organic materials and/or fills are removed to a minimum of 4 inches below bottom finished elevation of safety tiles.
- .2 Place and level clean, free draining granular sand and gravel and compact to a minimum 95% Proctor Standard.
- .3 Place geotextile landscape fabric over entire site. Overlap edges and ends minimum 12 inches and secure joints by taping.]

**3.03 INSTALLATION**

*Refer to Manufacturer's printed Installation Manual for detailed installation instructions.*

**3.04 PROTECTION AND CLEAN UP**

- .A Protect new tile installation from traffic until adhesive has cured.
- .B Clean off excess adhesive from tiles immediately using a damp cloth.
- .C Scrape off dried adhesive with a utility knife and rub with cloth containing mineral spirits.
- .D Sweep off or vacuum finished surface and keep clean until acceptance.

**END OF SECTION**