



## SPECIFICATIONS FOR PLAYGUARD PLAYGROUND SAFETY SURFACING

### SECTION 02792

#### Athletic and Recreational Surfacing

**These specifications were current at the time of publication but are subject to change at any time without notice. Please confirm the accuracy of these specifications with the manufacturer and/or distributor prior to installation.**

PlayGuard® playground safety tiles are uniquely designed to reduce the risk of seriously injury associated with falls from playground equipment. All PlayGuard products are compliant with guidelines established by the U.S. Consumer Product Safety Commission and American Society for Testing Materials and meet accessibility requirements of the Americans With Disabilities Act. E CORE International™ is also one of the few playground surfacing manufacturers to take its product through the rigorous process of becoming IPEMA™ certified.

### PART 1 GENERAL

#### 1.01 Description

The work specified in this section consists of the installation of PlayGuard tiles in accordance with these specifications, and in conformity with the dimensions and notes shown in the plans.

### PART 2 PRODUCTS

#### 2.01 Materials

- A. E CORE manufactures PlayGuard playground safety surfacing in traditional pigmented and PlayGuard Ultra that features a 3 mm top wear layer.
- B. Physical Specification: PlayGuard consists of a high-density, water permeable wear surface; tapered conical support legs and surface expansion joint; and perimeter adhesion (2-1/2" thickness) in order to maximize shock attenuation, installation ease and water drainage.
- C. Component Specification: PlayGuard is a factory-molded surface composed of high-quality SBR tire rubber and EPDM colored granules bound together by a wear and weather resistant polyurethane. The polyurethane binder is composed of MDI (dipenylmethanediisocyanate) isocyanate and polyether (polypropyleneglycol) polyols. TDI (toluene disocyanate) isocyanate or catalysts based on lead or mercury are not utilized. Rubber granules are blends of ground rubber particulates specially blended to enhance tile strength, durability and energy absorption characteristics.
- D. Product Data: PlayGuard tiles are manufactured to the following standards:

Characteristic	2 ½" Pigmented	3 ¾" Pigmented	2 ½" Ultra Tile	4 ¼" Ultra Tile
Dimensions (78°F)	24" x 24" (+/- 1/8)	24" x 24" (+/- 1/8)	24" x 24" (+/- 1/8)	24" x 24" (+/- 1/8)
Wear Surface Density	50 lbs./cu. ft. min.	50 lbs./cu. ft. min.	70 lbs./cu. ft. min.	70 lbs./cu. ft. min.
Coefficient of Thermal Expansion	0.0011 in/ft/°F	0.0011 in/ft/°F	0.0011 in/ft/°F	0.0011 in/ft/°F
Void Volume	42% min	50% min	42% min	42% min
Water Permeation Rate	0.045 cm/sec	0.045 cm/sec	0.034 cm/sec	0.034 cm/sec

Characteristic	Test Method	Pigmented Tile	Ultra Tile	
Critical Height	ASTM F1292	6 ft./8 ft.	6 ft./8 ft.	
Abrasion Testing	ASTM D3389	Less than 0.010" lost	Less than 0.010" lost	
Coefficient of Friction	ASTM D2047	0.8 min.	0.8 min.	
Flammability	ASTM D2859 (Burning Pill Test)	8 of 8 samples passed	8 of 8 samples passed	
Elongation at Break	ASTM D412, DIE C	50% min.	70% min.	
Tensile Strength	ASTM D412, DIE C	150 lb./in <sup>2</sup> min.	180 lb./in <sup>2</sup> min.	

## PART 3 EXECUTIONS

### 3.01 Installation

- A. PlayGuard playground surface tiles and accessories can be installed on concrete, asphalt or loose base surfaces with a protective fabric. For complete installation and maintenance information, please contact the manufacturer at 1-800-851-4746.



715 Fountain Ave., Lancaster, PA, 17601

Contact: Mike Shaak  
Toll Free: 1-800-851-4746  
Fax: 717-295-3414  
Web site: [www.playguardsurfacing.com](http://www.playguardsurfacing.com)