



## **Play Safe Playground Safety Surface**

### **DEFINITION**

- A. Play Safe combines recycled passenger car tires (SBR rubber), and an MDI single part aromatic urethane binder, providing a strong, extremely permeable, playground safety surface. Available Critical fall heights; 5'- 8', 8'-12', 12'-15'

### **PRODUCT TESTING:**

C0 Shock Attenuation (ASTM 1292) - All Fall Heights

- Gmax: Less than 200
- Head Injury Criteria: Less than 1000

D0 Flammability (ASTM D2859): Pass.

E0 Binding Agent - Test Sample (ASTM D412) 200 micron films @ 68 degrees F

- Tensile Strength: 6,000-7,000 psi
- Elongation: 400-500 %

G0 Water Permeability (ASTM C1701): 1,700+ in/hr

H0 SLIP Resistance (ADA) ASTM D2047: .73 Dry

### **PRODUCT COMPONENTS**

- A. Surface Rubber: Recycled passenger tires ground to 1/8"-1/4" nominal with wire remnants removed. Held together with a binding agent.
- B. Base Material: Loose recycled passenger tires ground to 1/2" nominal with wire remnants removed. Spread and tamp to the desired critical fall thickness. No binding agent is required for the base layer.
- C. Binding agent: urethane liquid prepolymer based upon Diphenylmethane Diisocyanate.
- D. Mix Design: Component mix ratio is dependent on color proportion and will be provided at time of order.

### **INSTALLER QUALIFICATIONS**

- A. Play Safe installer shall be required to be familiar with installation procedures and to have attended the Manufacturer installation training program.
- B. Play Safe installers shall employ no less than two Manufacturer-Trained Play Safe technicians on staff who directly oversee and perform the installations during all Play Safe placement.

## **Play Safe Playground Safety Surface**

### **PROJECT CONDITIONS**

- A. Protect stored rubber from moisture by covering with sheet plastic if stored outdoors.
- B. Binder to be stored within a temperature range of 45 to 80 degrees F.
- C. Avoid placing Play Safe if rain, snow, or frost.
- D. Base aggregate shall be a clean #57 stone.

### **EXECUTION**

- A. Prepare subgrade as specified in the contract documents or as directed by the engineer.
- B. Place Clean #57 Coarse Aggregate and compact to a recommended thickness of 3" or as directed by the engineer.
- B. Place and tamp Base Material to the thickness required for the desired critical fall height (1.5" – 8' Fall, 3" – 12' Fall, 4.5" – 15' Fall)
- C. Mix, place, and finish Surface Rubber to a thickness of 1.5" or as directed by the engineer.
- D. Apply liquid urethane bonding agent to face of mating surfaces when adhesion is desired

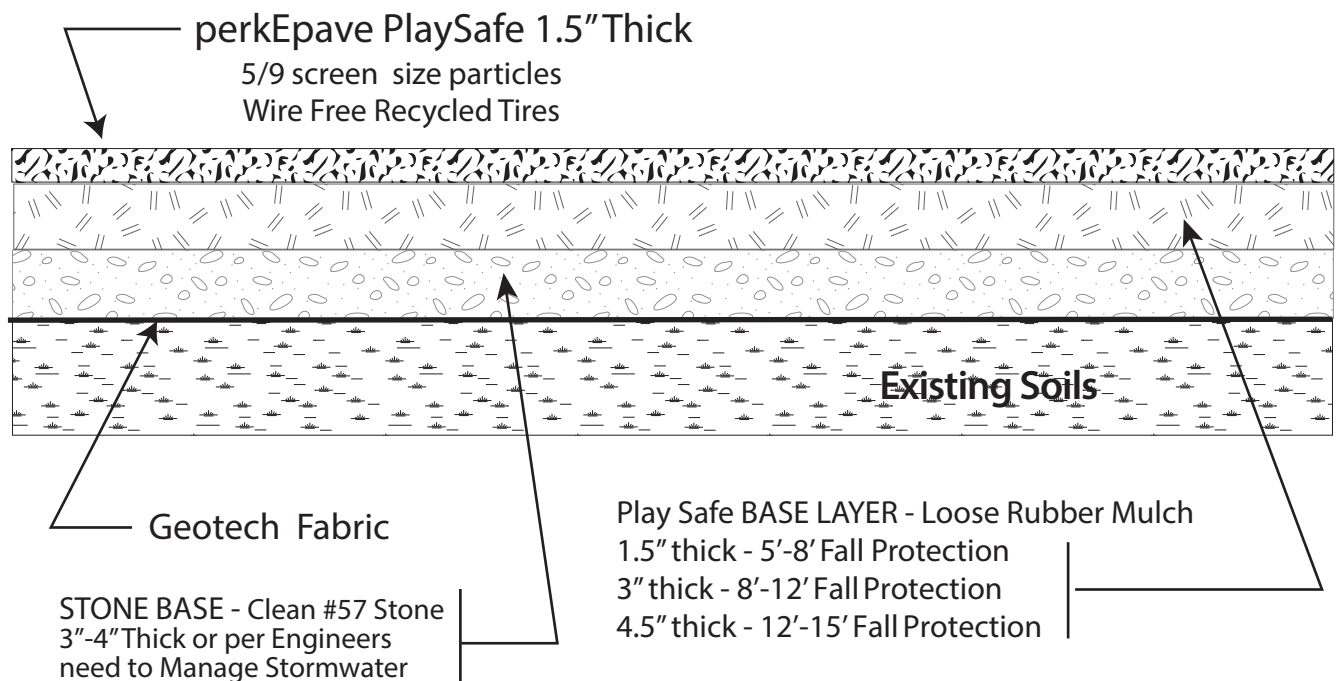
### **CURING**

- A. Play Safe is moisture cured by the humidity in the air with an average time of 24 hours. Play Safe may be put into service after 48 hours when installed within the temperature range of 45-90 degrees F.

### **HOT- AND COLD-WEATHER CONSTRUCTION**

- A. No special procedures are necessary if temperatures are between 45-90 degrees Fahrenheit.
- B. Installation may proceed when temperatures during the installation period are above 35 degrees F and reach temperatures above 45 degrees F. Uncured installations shall not be permitted to fall below freezing.

## PlaySafe - Standard Detail




## PlaySafe over Loose Rubber Mulch

### NOTE:

perkEpave Play Safe has been tested to the requirements of ASTM F1292 Standard Specification for Impact Attenuation of Surfacing Materials.

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 ECO friendly porous paving made with recycled tires		Trails, Paths, Sidewalks, Tree Surrounds, Erosion Control, Trench Drains	
<a href="http://www.perkepave.com">www.perkepave.com</a>			
drw TEC	scale NTS	date 5/15/24	rev 0