



SECTION 02791

Athletic and Recreational Bonded Surfaces

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.

PART 1 GENERAL

1.01 Work Included

- A. This work includes furnishing and installing the Child Safe a bonded single density rubber pour surface.

1.02 Description of System and General Conditions

- A. CSP shall be a recycled bounded rubber mulch hand trowel surface installed over the specified base. The surfacing manufacturer shall be responsible for all labor, materials, tools, equipment and services for the installation of the surface. The surface shall be stable and slip resistant to comply with all requirements set forth in the Americans with Disabilities Act.

1.03 Quality Assurance

- A. Test Results
 - a. Impact Attenuation - ASTM F1292: Impact attenuation test results shall meet or exceed Consumer Product Safety Commission Guidelines for impact attenuation (G-max and Head Injury Criteria H.I.C.)
 - b. Accessibility of Surface Systems – ASTM F1951-99: All playground surfacing products must pass testing to ensure wheelchair access under and around playground equipment as required by the American Disabilities Act.
 - c. Flammability - ASTM D2859: Product shall pass flammability
 - d. Permeability - Shall permit a minimum of 8" of rainfall per hour.
 - e. Tensile Strength - ASTM D412-87 and Tear Resistance - ASTM D624-86
 - f. Total recovered materials content (RMC) 100%
- B. Contractor Pre-Qualifications
 - a. A list of at least twenty (20) of these projects five (5) years old.
- C. Insurance Requirements
 - a. All bidders must carry minimum insurance of \$1,000,000 general liability; \$1,000,000 product liability with excess liability.

1.04 Bonded Materials

- A. Bonded Rubber Mulch shall be a No 5 or 3/8 crumb per system design.
- B. Polyurethane binder

1.05 Submittals

- A. Alternate product must be submitted 10 days prior to bid date with submittals.

1.06 Warranty

- A. Child Safe safety surface shall be warranted for labor and materials for period of no less than (3) years. Written warranty must be submitted by the surface manufacturer.

1.07 Approved Manufacturer/Installer, Child Safe Products 1-800-730-0064

- A. Any product or surfacing manufacturer not meeting prior approval requirements of this section shall not be approved.

PART 2 PRODUCTS

2.01 Materials

- A. Polyurethane Primer and Binder - 100% Single Component Polyurethane (MDI) based binder.
- B. SBR rubber No 5 or 3/8" crumb per design.

PART 3 PROCEDURES

3.01 Base Requirements

- A. The base shall have the specific minimum slope (2%) and shall vary no more than 1/8" when measured in any direction with a 10' foot straight edge. Asphalt base shall be allowed to cure a minimum of fourteen (14) days and new concrete shall be allowed to cure a minimum of seven (7) days prior to commencement of surfacing. A compacted stone base will not require cure time but will be subject to planarity tolerance specification. Surface Manufacturer shall supply and install geo-textile fabric cloth on compacted stone if selected for the base. Base shall be sloped to drain as indicated on plans.

NOTE: Stone base must be properly treated with herbicides (by others) prior to arrival of surface installation crew. Minimum of 2" of surface (total depth) is required for stability.

3.02 Preparation

- A. Scheduling – Child Safe shall be installed following installation of play equipment. The temperature should be 40 degrees and rising during installation of surface.
- B. Cleaning - The entire subsurface shall be clean, dry and free from any loose material.

3.03 Installation

- A. Thickness - Total depth of the surface shall be determined to meet the critical fall requirement of the equipment. The architect or owner's representative should contact the equipment manufacturer to determine exact fall height requirements
- B. Bonded Rubber - Must be composed of recycled rubber and be free of foreign matter.
- C. Bonded rubber shall be consistent with No 5 sieve size or 3/8" crumb per CSP design.
- D. Edges – Bonded Rubber edges shall be flush with sidewalk or containment boarder as shown on plan detail(s).

3.04 Protection

- A. Surface installation crew shall be responsible for the protection of Child Safe surface during the installation process. Owner or general contractor shall be responsible for the protection of the surface during the curing period upon completion of the installation.

PART 4 COLORS

4.01 The color of Child Safe will be as indicated on plans.

- A. Standard Color Black – Other colors may be indicated on plans by owner or owner's representative.

NOTICE: These specifications are merely guides for use by Landscape Architects, engineers, contractors. It is hoped that these specifications will be of particular value to those who do not have detail knowledge of synthetic safety flooring and that it will aid in maintaining high construction standards. CSP, its agents and employees do not warrant the specifications as proper under all conditions.

FOR OTHER SPECIFICATIONS OR COLORS

**PLEASE CONTACT:
Child Safe Products 1-800-730-0064**