

Child's Play DOLA Spec. Surfacing Specifications

PART 1 General

The DOLA Spec. product is designed specifically for users applying for the DOLA Waste Tire Grant and the product has been engineered and tested to maximize performance criteria and the quantity of Colorado Waste Tire incorporated into the product.

This specification covers the performance requirements, submittals, materials, base preparation, layering, installation and guarantee of poured-in-place safety surfacing for the product manufactured using 100% Colorado Waste Tire. It also covers the Installer qualifications and design criteria of the product.

Performance Requirements

- 1.1 Child's Play safety surfaces installed within equipment use zones shall exceed the performance requirements for impact attenuation and Head Injury Criteria as per the requirements of U.S. Consumer Product Safety Commission (CPSC) (confirming a maximum deceleration of no more than 200 g's and a HIC value of no more than 1000 as per ASTM F-1292-99 method of testing):
 - 1.1.1 The impact attenuation performance shall be documented by a certificate of compliance and shall be performed on the finished surface using Triax 2000 non-destructive testing apparatus within 30 days of installation.
 - 1.1.2 Surfaces shall meet all requirements for accessibility including the American Disabilities Act Accessibility Guidelines.
 - 1.1.3 Provide documentation that shows the product has been submitted to Colorado Department of Human Services (CDHS) for their review and approval for use under playgrounds.

Submittals

- 1.2 The following shall be submitted:
 - 1.2.1 Manufacturers description of product; installation methods; base preparation and maintenance instructions.
 - 1.2.2 Detailed shop drawings of safety surfacing edging details, material thickness and base construction.
 - 1.2.3 Color chart of available colors.

Child's Play of Colorado, LLC

tel: 720-962-4592 • fax: 303-484-2091 • childsplaysurfaces@mac.com

- 1.2.4 Test results confirming product has been tested and is in compliance with ASTM F-1292-99. Any laboratory testing must also state that the product submitted for testing was manufactured using 100% Colorado Waste Tire materials only. Installers shall perform their own tests on waste tire products to ensure integrity and performance of finished product meets all standards and requirements as per CPS, ASTM and ADA.
- 1.2.5 Statement from the Manufacturer that the system to be installed shall only be performed by authorized and trained personnel.
- 1.2.6 Manufacturer qualifications as listed below.

PART 2 Materials

- 2.1 SBR rubber products shall be used for all layers of construction and must be certified as 100% Colorado waste tire. A Colorado Tires Certification form shall be provided by installer.
 - 2.1.1 Stabilization Layer - 1" granulated SBR waste tire product.
 - 2.1.2 Base Layer - 1/4" - granulated SBR crumb rubber.
 - 2.1.3 Wearing Course - 1-4mm SBR granulated crumb rubber.

Polyurethane binders shall be specially formulated for playground surfacing, shall contain no TDI, filler minerals such as plasticizers, catalysts, extenders or heavy metals. Weight of polyurethane shall be no less than 8.5 lbs/gal (1.02 Kg/l). Pigments shall contain no heavy metals and shall be 100% moisture free.

PART 3 Playground Surfacing

Base Preparation

- 3.1 Ensure that any and all contaminated material and wood fiber systems are removed and properly disposed of. Existing sand and pea gravel surfaces must be re-graded to proper elevations and compacted.

Surface Installation

- 3.2 Install safety surfacing in 3 layers using 100% Colorado Waste Tire.
 - 3.2.1 The first SBR layer shall be a granulated rubber of 1" size that will be installed to a thickness of 4" over the base. This first layer will assist in stabilizing the sand or pea gravel subgrade.

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- 3.2.2 The second SBR layer shall consist of 1/4" minus SBR rubber bound with a minimum amount of 15% polyurethane binder by weight. This layer shall be graded and compacted to a minimum thickness of 1-1/2".
- 3.2.3 The final SBR wearing course shall consist of 1-4mm granulated rubber and shall be thoroughly mixed on site with polyurethane binder to ensure 100% coverage of all particles. Binder content shall be minimum 25% by weight and mixture shall be poured in place by means of rakes and screed bars to a thickness of 1/2" and compacted to required density by use of hand trowels and rollers. Allow 24 hrs. to cure. High wear areas under swings and slides shall receive a 1" thick wearing course. All edges adjacent to concrete shall be sloped to provide a minimum of 1 1/2" vertical surface bonding area to concrete.

Manufacturer/Installer Qualifications

- 3.3 All Manufacturers/installers must have the following qualifications.
- 3.3.1 Produce test results and data that confirm proposed product has been designed and tested using 100% Colorado Waste Tire material in its construction.
- 3.3.2 Provide a list of at least 10 installations which have been performed within the last 5 years using 100% Colorado Waste Tire material.

Cleanup

- 3.4 Remove any spills or residue that may make contact with structure or surrounding curbs or sidewalks. On completion of work and the 24 hr. cure time, remove all protection provided for the same.