

Child's Play Rainbow Turf - Rubber Buffering Surfacing Specifications

PART 1 General

This specification covers the performance requirements, submittals, materials, base preparation, layering and installation and guarantee of poured-in-place safety surfacing.

Performance Requirements

- 1.1 The Safety Surface System shall have been manufactured by name within the United States for minimum of ten (10) years.
- 1.2 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 method of testing).
- 1.3 The impact attenuation performance shall be documented by a certificate of compliance and shall be performed using Triax 2000 non-destructive testing apparatus within 30 days of installation.
- 1.4 Child's Play safety surface shall meet all requirements for accessibility including the American Disabilities Act Accessibility Guidelines (9ADAAG) 28 DFR Part 36 as well as compliance with the Uniform Federal Accessibility Standards (UFS) FED-STD-795 and the Architectural and Engineer Instructions (9AEI) Design Criteria.

Submittals

- 1.5 The following shall be submitted:
 - 1.5.1 Manufacturers description of product, installation methods, base preparation and maintenance instructions.
 - 1.5.2 Detailed shop drawings of safety surfacing edging details, material thickness and base construction.
 - 1.5.3 Color chart showing available colors.
 - 1.5.4 MSDS sheets for materials used to construct the same.
 - 1.5.5 Test results confirming product has been tested and in compliance with ASTM F-1292.

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- 1.5.6 Statement from the manufacturer that the system to be installed shall only be performed by authorized and trained personnel.
- 1.5.7 Statement from manufacturer that the binders used in the system have been specifically designed for playground surfacing.
- 1.5.8 A Certificate of Insurance for general and liability of no less than \$1,000,000.
- 1.5.9 Sample of the surface system minimum size being 3" x 3".

PART 2 Material Testing

- 2.1 The impact attenuation performance shall be documented by a certificate of compliance and shall be performed using Triax 2000 non-destructive testing apparatus within 30 days of installation.

PART 3 Warranty

- 3.1 Provide a written warranty stating that work executed under this Section will be free from defects of materials and workmanship for a period of three years from date of Substantial Completion, and that material breakdown and unraveling will be remedied on written notice at no additional cost to the Owner. Warranty shall include removal and replacement of materials as required to repair safety surfacing, at no cost to the Owner.

PART 4 MATERIALS

General

- 4.1 All material components of the safety surfacing shall be obtained from the same source. Binder type by name must be verified by customer prior to field installation. No substitutions.
- 4.2 Base Construction: ensure that any and all contaminated material and wood fiber systems are removed and properly disposed of. Construct new base or recycle existing materials as per Child's Play specifications to provide a stable firm base on which to install safety surface system.
- 4.3 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.

- 4.4 Rubber: Mandatory use of an engineered 100% recycled rubber buffing raw material, organically color blended, and is delivered and manufactured strictly from rubber buffing material reclaimed from tire recapping facilities versus that of whole tire recycling operators who produce a ground up chip or granule. The loose-fill must not carry any unwanted characteristics of whole tire recycling, including steel or fabric. The loose-fill shall consist of rubber particles ranging in size from 3/8" to 2". Rubber buffing must be organically colored and tested successfully for a ten-year color retention. A tri-color blend of color is to be proportionately mixed to blend in with the natural environment of public play parks.

PART 5 Playground Surfacing

- 5.1 Mixture of binder and rubber will be determined by the system, which is specified. Verify with manufacturer for specific detailing.
- 5.1.1 Safety Surfacing shall be installed in the presence of a factory trained service representative to ensure the highest quality installation.
- 5.1.2 Installation of Safety Surfacing shall be over bituminous concrete sub-base as per manufacturer's instructions and as detailed. The safety surfacing in itself shall not create new hazards; hence all installations shall be done as carefully as possible in a neat and workmanlike manner.

Installation

- 5.2 Safety Surface shall be installed to thicknesses indicated on the drawings. Minimum thicknesses indicated on the drawings are based on the performance standards of Play Space Services / Rainbow Turf Products.
- 5.2.1 The use of minimum base executed within Rainbow Turf Products (playground safety surfacing system is solely for the purpose of setting a performance standard. It does not indicate a proprietary item, nor does it preclude products of other manufactures so long as the requirements of these specifications and all other applicable provisions of the contract documents are met.
- 5.2.2 Thicknesses of safety surfacing must meet all safety requirements and codes for fall heights of specified play equipment.

Cleaning & Protection

- 5.3 Clean, repair or replace work of trades soiled or damaged by safety surface installation work.
- 5.4 The General Contractor shall be responsible for protection of finished surfaces until completion of construction and sign off.

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