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### **Product Guide Specification**

**Specifier Notes:** This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all Specifier notes when editing this section.

### **SECTION 02792**

#### **PLAYGROUND SYNTHETIC TURF SURFACING**

**Specifier Notes:** This section covers Rubberecycles "GENESIS®" turf resilient, tile and turf, Hybrid playground safety surfacing. Consult Rubberecycle for assistance in editing this section for the specific application.

## **PART 1 GENERAL**

### **1.01 SUMMARY**

- A. Section Includes: Interlocking tile and synthetic turf, playground safety surfacing: GENESIS Turf.

### **1.2 RELATED SECTIONS**

**Specifier Notes:** Edit the following list of related sections as required. List other sections with work directly related to this section.

Include the section number and title of the following two Division 2 sections, if they are referenced in this section.

- A. Section 02\_\_\_\_\_ - \_\_\_\_\_ : Granular aggregate subsurface.
- B. Section 02\_\_\_\_\_ - \_\_\_\_\_ : Asphalt subsurface.
- C. Section 02791 - Playground Surfacing Tiles.
- D. Section 02880 - Play Field Equipment and Structures: Playground equipment.
- E. Section 03300 - Cast-in-Place Concrete: Concrete subsurface.

### **1.3 REFERENCES**

**Specifier Notes:** List standards referenced in this section, complete with designations and titles. This article may be omitted when specifying manufacturer's proprietary products and recommended installation.

- A. ASTM F 1292 - Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- B. ASTM F1951- Standard Specification for Determination of Accessibility of surface Systems Under and Around Playground Equipment.
- C. US Consumer Product Safety Commission (CPSC) Handbook for Playground Safety.

### **1.4 SUBMITTALS**

- A. Submit listed submittals in accordance with conditions of the contract and Division 1 submittal procedures section.
- B. Product Data: Submit manufacturer's product data
- C. Verification Samples: Submit manufacturer's samples of GENESIS Turf playground surfacing of at least 8 inches by 8 inches.
- D. Test Reports: Submit test reports from qualified independent testing agency indicating results

of the following tests:

1. Impact Attenuation: ASTM F 1292
2. Wheelchair Accessibility: ASTM F 1951

E. Certificate of Compliance:

1. Submit manufacturer's certificate of compliance indicating materials comply with specified requirements.
2. Submit certificate of qualifications of the playground surfacing installer

F. Manufacturer's Project References:

1. Submit list of successfully completed projects.
2. Include project name, location, and name of owner's representative.

G. Installer's Project References:

1. Submit list of successfully completed projects.
2. Include project name, location, and name of owner's representative.

H. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.

I. Warranty: Submit manufacturer's standard warranty.

## 1.5 QUALITY ASSURANCE

A. Installer's Qualifications:

1. Utilize an installer with successful experience in installation of turf playground safety surfacing of similar type to that specified.
2. Employ persons trained for installation of turf playground safety surfacing.
3. Approved by manufacturer.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened containers with original product identification labels.

C. Storage and Protection:

1. Store materials in accordance with manufacturer's instructions.
2. Store materials in a dry area at a minimum temperature of 50 degrees F (10 degrees C) for a minimum of 72 hours before installation.

D. Handling: Protect materials during handling and installation from harmful environmental conditions.

## 1.7 PROJECT CONDITIONS

A. Material Temperature: Ensure material temperature is a minimum of 50 degrees F (10 degrees C) at time of installation.

B. Air Temperature: Install surfacing when ambient temperature is a minimum of 40 degrees F (4 degrees C) and a maximum of 90 degrees F (32 degrees C) for a minimum of 24 hours before,

during, and after installation.

## **1.8 WARRANTY**

- A. Project Warranty: Refer to conditions of the contract for project warranty provisions.
- B. Manufacturers Warranty: Submit manufacturers standard warranty document.
- C. Materials and Workmanship: GENESIS playground surfacing shall be warranted for defects in materials and workmanship for 8 years from date of completed installation.
- D. Performance: GENESIS playground surfacing shall be warranted to meet drop height performance requirements of ASTM F 1292 for 8 years from date of completed installation.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURER**

- A. Rubbercycle LLC., 1985 Rutgers University Blvd, Lakewood, NJ 08701. Toll Free (888) 436-6846. Phone (732) 363-0600. Fax (732) 370-4247. Website [www.rubbermulch.com](http://www.rubbermulch.com). E-mail [info@rubbermulch.com](mailto:info@rubbermulch.com).

### **2.2 GENESIS SYNTHETIC PLAYGROUND SURFACING**

- A. Interlocking Tile/Turf Hybrid Surfacing: "GENESIS".
  - 1. Description: Four-component, playground surfacing consisting of an interlocking vulcanized rubber tray impact attenuating layer, filled with a loose SBR rubber granule ballast layer and a decorative, synthetic turf top layer in-filled with sand ballast.
  - 2. Compliance: Meet or exceed CPSC guidelines for impact attenuation.
  - 3. Tray system: Vulcanized interlocking rubber tray engineered with 81 hollow cavities.
    - a. Weight: 30 pounds
    - b. Size: 36 inches X 36 inches
    - c. Thickness: 3 inches
  - 4. Ballast Course: Rubber infill Shall consist of clean, processed SBR tire rubber only.
    - a. Thickness: 3 inches
    - b. Size Distribution: 4 mesh-10 mesh (+/- 2%)
    - c. Fiber Content: Maximum 2% by weight. Embedded fiber only
  - 5. Decorative wear course: Synthetic Turf
    - a. Yarn Type: PE & PP
    - b. Yarn Structure: Monofilament
    - c. Pile Height: 1.75"
    - d. Face Weight: 80 oz total weight 105 oz
    - e. Stitches per m2: 17,300
  - 6. Total System Thickness: 4.25 inches
- B. Test Results (In field – post installation) at 8 feet:
  - 1. Impact Attenuation, ASTM F 1292:

- a. Gmax: Less than 150.
- b. Head Injury Criteria (HIC): Less than 500.

### **PART 3 EXECUTION**

**Specifiers Notes: Specify actions required to determine that conditions are acceptable to receive products of the section.**

#### **3.1 EXAMINATION**

- A. Site Verification of Conditions: Verify that substrate conditions are suitable for installation of GENESIS surfacing.
- B. Verify that the appropriate sub-grade elevation has been established for the particular safety surface being installed.
- C. Verify that the subsurface has been installed per the architectural, site or equipment plans including accessibility and use zones. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

#### **3.2 PREPARATION**

- A. Prepare subsurface in accordance with manufacturer's instructions and recommendations

**Specifier Notes: Specify subsurface of compacted stone, concrete, or asphalt.**

**Due to the porosity of GENESIS playground surfacing, it is important that a proper subsurface drainage system be constructed.**

**Include the following sentence when a compacted stone subsurface is required. Include the section number of the Division 2 section specifying the granular aggregate subsurface preparation.**

- C. Compacted Stone:
  - 1. Compacted, stone subsurface shall be as specified in Section 02\_\_\_\_\_.
  - 2. Tolerance of stone sub-base shall be within 3/8 inch (10 mm) in 10 feet
  - 3. Verify that aggregate sub-base has been fully compacted in 2 inch watered lifts to 95 percent SPD.

**Specifier Notes: Include the following paragraph when a concrete subsurface is required.**

- C. Concrete Subsurface:
  - 1. Concrete subsurface shall be as specified in Section 03300.
  - 2. Apply light broom finish.
  - 3. Ensure concrete is sound with no cracks or loose material.
  - 4. Ensure concrete is a minimum of 7 days old.
  - 5. Ensure that all concrete curing compounds and any other contaminants have been removed
  - 6. Surface shall be dry and clean

**Specifier Notes:** Include the following paragraph when an asphalt subsurface is required.

- D. Asphalt Subsurface:
  - 1. Asphalt subsurface shall be as specified in Section 02\_\_\_\_\_ .
  - 2. Ensure asphalt is sound with no cracks or loose material.
  - 3. Ensure asphalt has cured for a minimum of 7 days

### **3.3 INSTALLATION**

- A. Do not proceed with installation until all applicable site work, including substrate preparation, playground equipment installation and other relevant work has been completed.
- B. Install GENESIS playground safety surfacing in accordance with manufacturer's instructions at locations indicated on the Drawings.
- C. Ensure prepared subsurface is dry and clean.
- D. Secure edges in accordance with manufacturer's edge detail instructions and as indicated on the Drawings.

### **3.5 FIELD QUALITY CONTROL**

- A. Post Installation Safety Testing: ASTM F 1292 Field Test Method
  - 1. Provide testing of playground safety surfacing system within 30 days of installation. Contractor shall give the Architect and the owner 48 hours previous notice.
  - 2. Conduct testing by competent persons trained in the use of test equipment
  - 3. Determine compliance with ASTM 1292-09 unless otherwise specified in this section.
  - 4. Provide written report of findings to Owner and Landscape Architect, with photographs.

### **3.4 CLEANING**

- A. Clean playground safety surfacing in accordance with manufacturer's instructions.

### **3.5 PROTECTION**

- B. Protect completed playground safety surfacing from damage during construction and curing.

**END OF SECTION**