



## *Fiber Reinforced HD6 Root Zone for Turf Paving*

### *TURFGRIDS® Installation Specification for Fire Lanes*

#### **TECHNICAL SPECIFICATIONS**

##### **PART 1 – GENERAL**

###### **1.01 General Provisions**

The Conditions of the Contract and all Sections are hereby made a part of this section.

###### **1.02 Description of Work**

###### **A. Work Included:**

1. Provide and Install Geotextile Separation fabric, if required.  
(7 oz - 8 oz Non-Woven Geotextile )
2. Provide and Install Drainage Layer using Stone, Sand, or Geocomposite as per Geotechnical Engineer's recommendations and/or as shown on Project Drawings.
3. Provide and Install Sand Layer (8" to 16") conforming to the recommended specifications for Gradation.
4. Provide and Install Turfgrids® / Sportgrids® Synthetic Fibers as per manufacturers recommended installation guidelines as furnished under this section.
5. Provide and Install Natural Turf Surface by utilizing Seeding, Sprigging, or Sand-Based Sod.

###### **B. Related Work:**

1. Subgrade Preparation under Section XXX – Earthwork.
2. Subsurface Drainage Materials – Section XXX – Subsurface Drainage, when needed.
3. Irrigation Installation – Section XXX – Irrigation, when needed.

## Quality Assurance

- A. Follow Section XXX requirements.
- B. Installation procedures should be conducted by skilled and qualified work force with satisfactory record of performance on related projects.

### 1.03 Submittals

- A. Submit manufacturer's Product Data and Installation Guidelines.
- B. Submit representative sample of Turfgrids Product and Literature for review.
- C. Submit representative sample of separation Geotextile for review, if needed.
- D. Submit material certificates and/or Gradation analyses of all base and sub-base materials.

### 1.04 Delivery, Storage and Handling

- A. Protect all materials from damage during delivery.
- B. Store and Handle materials according to manufacturer's recommendations.

### 1.05 Project Conditions:

- A. Review Installation procedures and coordinate Geotextile Separation work with other work affected. Generally, the geotextile separation fabric will be placed immediately following the approval of suitable sub-grade preparation.
- B. Review installation procedures and coordinate Turfgrids® work with other work affected. Generally, the Turfgrids® will be placed immediately following the approval of Sub-Grade or Base Course, if required.
- C. Cold Weather:
  - 1. Do not use frozen materials or materials mixed or coated with ice or frost.
  - 2. Do not build on frozen work or saturated sub-grade or sub-base materials.
  - 3. Ambient temperatures do not adversely affect Turfgrids®.
- D. Protect partially completed paving sections from construction equipment throughout the construction process. Construction traffic should not be allowed to travel on Turf Paving until the Root System has matured (generally 2 to 4 weeks).

## PART 2 – PRODUCTS

### 2.01 Availability

- A. Turfgrids® :

Manufacturer: Fiber Reinforced Soils, LLC  
PO Box 80198  
Baton Rouge, LA 70898  
866-FIBERS1 (866-342-3771)  
225-757-9136 (O)  
225-752-7975 (F)  
www.fibersoils.com

B. Geotextile / Geocomposite

Distributor:

**Contact product Manufacturer / Distributor for related product information.**

**2.02 Materials for Sand Base / Root Zone Mix :**

- A. **Sand Materials:** Shall be as Specified by Geotechnical Engineer.
- B. **Grass:** Use species resistant to wear by traffic. Turf Paving Applications require the greatest wear resistant species possible, which is commonly obtained only by Seeding, Sprigging, or Sand-Based Sod.
1. Sod: Use Sand-Based Sod from a reputable local source. Species should be wear resistant, disease free and in good physical condition.
  2. Seed / Sprigs: Use Seeds or Sprigs from reputable and certified sources, of the preferred species for local environment. Species should be of wear resistant type.
- C. **Fertilizer:** A starter fertilizer recommended by local grass supplier should be utilized to promote rapid germination and root development.

**PART 3 – EXECUTION**

**3.01 Sub-Grade Inspection:**

- A. Examine the sub-grade condition. Make sure that all debris and un-suitable material has been removed. Check the grade of the sub-grade and make sure subsurface drainage requirements have been met.
- B. Installation of the sub-base constitutes acceptance of the sub-grade and responsibility for satisfactory performance. If satisfactory conditions are not met, contact the project engineer for resolution.

**3.02 Sub-Grade Preparation:**

1. If required. A Geotextile Separation Fabric to be placed over prepared Sub-Grade according to Specifiers recommendations.
2. If required, place crushed stone sub-base over separation fabric and/or prepared Sub-Grade in 6 inch lifts, to grades shown on plans. The crushed stone sub-base lifts shall not exceed 6 inches. Each lift shall be compacted to a minimum 95% standard proctor (ASTM D-698).

### **3.03 Fiber Reinforced Sand:**

- A. Place 8" to 12" of Specified Sand in 4-Inch Lifts to Specified Grade as noted on Plans.
- B. Spread Fertilizer and Soil Amendments at the specified Addition Rate over the Sand Profile.
- C. Spread / Mix Fertilizer and Soil Amendments with Initial Pass (First Pass) of Rotary Mixer ( RotaDairon, Blecavator, or Equivalent).
- D. Spread Turfgrids at an Application Rate of 1 LB / 8 SF to Specified Soil Profile. Turfgrids spread in specified area using Drop Spreader, Top Dresser, Modified StrawBlower, or Hand Spreading Application. Some Hand Raking may be required to obtain uniform coverage at specified addition rate.
- E. Mix Turfgrids to 6" Depth with Rotary Mixer until uniform Fiber / Sand Composite is obtained. Typically 2 Passes at Right Angles with recommended Rotary Mixer. Equipment recommendations include Rotodairon, Blecavator, or Colari.
- F. Compact Fiber Reinforced Sand to a minimum 95% Standard Proctor (ASTM D-698) or as Specified by Designer.

### **3.04 Installation of Turf Surface**

- A. Install Turf Surface using Seeds, Sprigs, or Sand-Based Reinforced Sod as specified.

### **3.05 Site Cleaning**

- A. Practice safe construction by cleaning during installation procedures and upon completion of work. All excess materials, debris and equipment shall be removed from the site. Repair any damage to adjacent areas that occurs during construction.

### **End of Section**