

8. Sample policy must be provided at time of bid to prove that policy is in force. A letter from an agent or a sample Certificate of Insurance will not be acceptable.

C. The artificial grass system must maintain a G-max of less than 200 for the life of the Warranty as per ASTM F1936.

1.8 MAINTENANCE SERVICE

- A. Train the Owner's facility maintenance staff in the use of the turf manufacturer's recommended maintenance equipment.
- B. Manufacturer must provide maintenance guidelines and a maintenance video to the facility maintenance staff.

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PART 2 PRODUCTS

2.1 MATERIALS

- A. Synthetic turf Athletic Surfacing Systems:  
 Manufacturer: FieldTurf USA Inc or approved equal  
 175 N. Industrial Blvd  
 Calhoun, GA 30701  
 P: 800-724-2969  
 Application: Multiuse practice field.  
 Type: Monofilament Synthetic Turf Model: FieldTurf Revolution 360 CoolPlay
- B. Or approved equal.

2.2 MATERIALS AND PRODUCTS

- A. Artificial grass system materials shall consist of the following:  
 Carpet made of "spined and/or ridged" monofilament polyethylene fibers tufted into a fibrous, non-perforated, porous backing.  
 Infill: Controlled mixture of graded sand and cryogenic rubber crumb that partially covers the carpet. A top infill layer of granulated cork is mandatory.  
 Glue, thread, paint, seaming fabric and other materials used to install and mark the artificial grass monofilament.
- B. The installed artificial grass monofilament shall have the following properties:

| Standard   | Property                   | Specification     |
|------------|----------------------------|-------------------|
| ASTM D1577 | Fiber Denier               | 10,800            |
|            | HALS UV Stabilizer         | 10,000ppm         |
|            | Inner Face Support Ridges  | ≥6                |
|            | Outer Face Support Ridges  | ≥10               |
| ASTM D5823 | Pile Height                | 2 ¼ inch          |
| ASTM D5793 | Stitch Gauge               | ¾ inch            |
| ASTM D5848 | Pile Weight                | 40oz/square yard  |
| ASTM D5848 | Primary Backing            | 7+oz/square yard  |
| ASTM D5848 | Secondary Backing          | 14+oz/square yard |
| ASTM D5848 | Total Weight               | 61+oz/square yard |
| ASTM D1335 | Tuft Bind (Without Infill) | 8+ lbs            |

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|            |                              |                    |
|------------|------------------------------|--------------------|
| ASTM D5034 | Grab Tear (Width)            | 200 lbs/force      |
| ASTM D5034 | Grab Tear (Length)           | 200 lbs/force      |
| ASTM D4491 | Carpet Permeability          | >40 inches/hour    |
| ASTM F1936 | Impact Attenuation (Gmax)    | <200               |
|            | Infill Material Depth        | 1.5 inches         |
|            | Sand Infill Component        | 6.2lbs/square foot |
|            | SBR Rubber Infill Component  | 1.8lbs/square foot |
|            | Extruded Composite Component | 0.6lbs/square foot |
|            | Total Product Weight         | 1264oz/square yard |

- C. Carpet: spined and/or ridged monofilament fibers tufted into a primary backing with a secondary backing.
- D. Carpet Rolls 15 foot wide rolls.  
Rolls long enough to go from field sideline to sideline.  
Where the playing field is for football, the perimeter white line tufted into the individual sideline rolls.
- E. Backing:  
Primary backing: a double-layered polypropylene fabric  
Secondary backing: an application of porous, heat-activated urethane to permanently lock the fiber tufts in place.  
Perforated (with punched holes), backed carpet are unacceptable.
- F. Fiber 10,800 denier, low friction, and UV-resistant fiber measuring not less than 2 ¼ inch high.  
Systems with less than a 2 ¼ inch fibers are unacceptable.
- G. Infill materials approved by the manufacturer.  
Infill a resilient layered granular system, comprising selected and graded sand and cryogenically hammer-milled SBR rubber crumb with a top layer of granulated cork.  
Artificial Grass products without cryogenically processed SBR rubber and a top layer of granulated cork will not be acceptable.  
The sand component of the infill must represent a minimum of 51% or more of the total infill, by weight.  
Granulated cork must be pre-washed by the cork supplier before arrival at the field(s).  
Granulated cork must have a bulk density of 0.19 g/cm<sup>3</sup> +/- 15%.
- H. The sand infill must comply within the following characteristics:
  - 1. Average Particle size between 20 and 30 mesh [calculated based on summing the midpoint of sieve pan fractions times the % retained on given screen fractions]
  - 2. Average Particle shape > 0.4 on the Krumbein scale
  - 3. Particle structure predominantly single grain