

# No Fault SporTurf FG275 for Playgrounds

## Product Specification

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## ARTIFICIAL TURF SURFACING FOR PLAYGROUNDS 12' FALL HEIGHT SYSTEM

### PART 1 – GENERAL

#### 1.01 WORK INCLUDED

This work includes furnishing and installing the No Fault SporTurf Safety Surface. The surfacing manufacturer/installer shall be responsible for all labour, materials, tools, equipment to perform all work and services for the installation of the surface.

#### 1.02 DESCRIPTION OF SYSTEM & GENERAL CONDITIONS

No Fault SporTurf safety surface system is comprised of a rubber mulch impact layer covered with high quality synthetic grass backed with foam padding. The entire system shall be installed over a compacted stone base. No Fault SporTurf safety surface shall comply with all requirements set forth in the Americans with Disabilities Act (ADA) and the American Standard Testing Methods (ASTM and Consumer Products Safety Commission (CPSC) for Playground Safety Surfaces as detailed below.

#### 1.03 QUALITY ASSURANCE

##### A. Test Results

1. Impact Attenuation - ASTM F 1292: Surfacing within playground equipment use zones shall meet or exceed the performance requirements of CPSC, ASTM F 1292 and/or CSA Z614-98 that a surface yield both a peak deceleration of no more than 200 g's and a Head Injury Criteria (HIC) value of no more than 1,000 for a head-first fall from the highest accessible portion of play equipment being installed as shown on drawings. Manufactured Safety Surface: For surfaces manufactured for the purpose of playground safety surface, the impact attenuation performance shall be documented by a certificate of compliance provided by third party at owner or contractor's expense.
2. Accessibility of Surface Systems – ASTM F1951: All playground surfacing products must pass testing to ensure wheelchair access under and around playground equipment as required by the American Disabilities Act.
3. Product Weight – ASTM D5848:
  - a) Total product weight to meet or exceed 135 oz/y<sup>2</sup>
  - b) Face (Pile) Weight to meet or exceed 44 oz/y<sup>2</sup>
  - c) Backing Weight to meet or exceed 92 oz/y<sup>2</sup>
4. Tuft Bind – ASTM D1335: must meet or exceed 7 lbs/force
5. Grab Tear/Breaking Strength – ASTM D5034: must meet or exceed 200 lbs/force
6. Water Permeability – ASTM F1551: must meet or exceed 130 inches/hour
7. Flammability – ASTM D2859: must pass Pill Flammability Testing

##### B. Contractor Pre-Qualifications

1. All bidders must have a current Louisiana Contractor's License at or before the time of bid opening date.
2. All bidders must also submit Product Data Sheets on all materials.

##### C. Insurance Requirements

1. All bidders must carry minimum insurance of \$2,000,000 general liability; \$4,000,000 general aggregate and \$1,000,000 excess liability.

#### 1.04 SUBMITTALS

- A. One original hard copy of the submittal package will be supplied with additional copies on individual CD's. Upon request only hard copies shall be supplied.
- B. Manufacturer's descriptive data and installation instructions to include details showing depths of surface and sub-base materials, anchoring systems and edge details.
- C. A list of all materials and components to be installed, with applicable MSDS sheets.
- D. Test results to substantiate that the product meets or exceeds all ASTM & ADA requirements for each standard listed in Section 1.03 Quality Assurance. Test must be performed and certified by an independent laboratory.

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- E. Documentation of Contractor Pre-Qualification and Insurance Requirements as stated in Section 1.03 Quality Assurance.
- F. Statement signed by the Manufacturer of the synthetic safety surfacing attesting that all materials under this section shall be installed by the Manufacturer or its Certified Installers.
- G. Upon request, a sample specimen of safety surface proposed for this project.

### 1.05 DELIVERY, STORAGE and HANDLING:

Materials and equipment shall be delivered and/or stored in accordance with the Manufacturer's recommendations.

### 1.06 PROJECT SITE CONDITIONS:

- A. Synthetic turf safety surfacing shall be installed on a dry subsurface at temperatures recommended by the manufacturer.
- B. The manufacturer's installation manager shall reserve the right to control the project schedule installation based on such factor without penalty to No Fault Sport Group, LLC.
- C. Safety surfacing shall be installed after the playground equipment is installed unless otherwise noted.

### 1.07 WARRANTY:

Surfacing shall be guaranteed against defects in material, including fade or fail (as distinguished from a change in texture) or have a pile height decrease to 50% of pile height as result of UV degradation, for a period of no less than eight (8) years or as specified and agreed upon per contract. If No Fault provides installation, a one (1) year warranty on workmanship will be included.

## PART 2 – PRODUCTS

**No Fault SporTurf FG 275 for Playgrounds** shall consist of rubber mulch and synthetic grass meeting the requirements of this specification and sold exclusively by No Fault Sport Group, LLC (866-637-7678 [www.nofault.com](http://www.nofault.com)).

**NOTE** – Other products will be allowed only if prior approved as per Section 2.02 Product Substitutions & Approved Equals

### 2.01 MATERIALS

- A. Rubber Mulch
  1. 100% post consumer recycled rubber nugget material derived from recycled tires.
  2. Loose material must not have unwanted characteristics of whole tire recycling, including steel or fabric.
  3. The loose fill rubber must consist of rubber particles ranging in size from 3/8" to 2".
  4. Rubber shall be organically color blended and tested for color retention.
  5. Colors: Standard Color chosen by the architect or owner during the submittal process, unless otherwise stated in specification or on plans.
- B. Synthetic Turf
  1. Fiber: Monofilament-Polyethylene Fiber & Monofilament Nylon
  2. Yarn Size: 10,000 Denier Monofilament PE and 4,200 Denier 8 Ply Monofilament Spring-Set Nylon
  3. Color: Verde
  4. Gauge: 3/8"
  5. Stitch Rate: 16 Stitches per 3 inches + 1/2
  6. Pile Height: 30mm – 1" PE ± 1/2

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7. Face Weight: 45.21 ounce/square yard
  8. Primary Back: 11 ounce composite back
  9. Secondary Back: 5mm foam pad with polyester fiber cover
  10. Width: 12 Foot
  11. Shipping Weight: 9 pounds per linear foot
  12. The entire system shall be resistant to weather, insects, rot, mildew, fungus growth and should be non-toxic. Weed growth from stray seeds are considered a local occurrence.
  13. The materials used in the turf system shall be selected and/or treated to resist UV deterioration and shall be warranted against degradation.
- C. Adhesive shall be waterproof, solvent-rubber based and specifically formulated for the permanent installation of artificial turfs as supplied by No Fault Sport Group, or approved equal.
- D. Seaming Tape shall be Nylon/Poly 12 inch as supplied by No Fault Sport Group, or approved equal.

## 2.02 PRODUCT SUBSTITUTIONS & APPROVED EQUALS

- A. All product substitutions must be submitted for preapproval at least fourteen (14) days prior to bid opening date. A complete submittal package, as outlined in Section 1.03 Submittals, must be provided before a substitute product will be considered for preapproval. If the product submitted for preapproval cannot meet all requirements of the submittal package, it will not be considered.
- B. Once all products submitted for substitution have been reviewed, a list of the approved substitutes will be circulated and made available to bidders.
- C. All products approved for substitution must be manufactured and installed by a Louisiana company with a current Louisiana Contractor's License, at or before the bid opening date.

## PART 3 – EXECUTION

### 3.01 SUB-BASE REQUIRMENTS

- A. Owner or owner's representative shall provide sub-surface in accordance with Manufacturer's recommendation for the project location and application.
- B. All sub-bases shall be approved by Owner or Owner's Representative & the turf contractor prior to installation of the safety surface system.
- C. The foundation should have a slope of one to two degrees in all directions north, south, east, and west from the high point of the field. Select the style that will not erode with this steep degree.
- D. Install first layer of Filter Fabric over entire excavated area per No Fault's recommendations.
- E. Install 2" x 4" treated wood nailer boards around the perimeter of the area. See specific Edge Details for additional information pertaining to the installation of the perimeter nailer boards.
- F. Install Compacted Stone per No Fault SporTurf Base Requirements.
- G. Install second layer of Filter Fabric over compacted stone base.

### 3.02 PREPARATION

- A. Scheduling – No Fault SporTurf system shall be installed after other sub-contractors are complete; the area is free from pedestrian traffic; and under the conditions as outlined in Section 1.06 Project Site Conditions.
- B. Installation of the synthetic turf system shall not begin until compacted stone base has been approved by Owner or Architect.

### 3.03 INSTALLATION

- A. Rubber Mulch Impact Layer
  1. Empty boxes of rubber mulch into designated use zone areas.

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2. Rubber shall be raked level and compacted using a 100 pound roller.
  3. Spot measurements shall be done by installer to assure that the minimum uniform depth for each equipment use zone area is achieved.
  4. Minimum uniform depth throughout the playground equipment use zone of each area shall be as required to meet the applicable critical fall height requirements of that area or as specified by owner or architect.
- B. Synthetic Turf
1. Roll out turf and turn it over.
  2. Stretch and place turf in rows per the following:
    - a) Turf rolls shall begin with the longest perpendicular cross-field distance
    - b) All rows should be installed in the same direction (either West to East or North to South).
    - c) Line up seams so that they are level and touching.
    - d) All visible wrinkles shall be stretched out before seaming.
    - e) Place weight (anything over 30 pounds) every 5-10 feet.
  3. Make necessary cuts, using a carpet knife, to fit turf around equipment post and exposed drains. Cuts around equipment post must be treated as seams and glued as described below.
  4. Turf shall be joined at all seams and cuts as follows:
    - a) Pull back turf at seams and insert seaming tape equally under the seam.
    - b) Pour and trowel glue on seaming tape
    - c) Allow glue to set and then place both edges of turf equally on the seaming tape.
    - d) Free any yarn fabric that is trapped or glued between the seams.
    - e) Pull seams together.
    - f) Roll all seams with a 100 lb roller to ensure proper adhesion.
  5. Stretch turf and secure perimeter edges to the nailer boards using nails or staples.
    - a) Care should be taken to ensure the turf is properly stretched during this process. Tools such as a carpet stretcher, gripper, seam puller, or knee kicker are often helpful, but not required.
    - b) Nails or staples should be either stainless or galvanized steel, and at least 1½” long with a narrow flat head.
    - c) Nails or staples should be placed every 1 to 2 inches around the perimeter.

### 3.04 PROTECTION

- A. The synthetic turf safety surface shall be allowed to fully cure in accordance with Manufacturer’s instructions. The surface shall be protected by the owner from all traffic during the curing period of 48 to 72 hours after surface installation is complete, or as instructed by the manufacturer.
- B. Surface installation crew shall be responsible for the protection of turf only during the installation process. Owner or general contractor shall be responsible for protection of the turf during the crew’s off hours and the curing period.

### 3.05 CLEAN UP

- A. Manufacturer’s installers shall not leave adhesive on adjacent surface or play equipment. Spills of excess adhesive shall be promptly cleaned.
- B. Manufacturer’s installers shall properly dispose of all material and packing waste before leaving the job site.
- C. Owner or contractor shall be responsible for supplying a dumpster at job site for all manufacturers’ waste.

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**FOR INDIVIDUAL PROJECT SPECIFICATIONS OR OTHER INFORMATION INCLUDING FALL HEIGHT  
REQUIREMENTS PLEASE CONTACT**

**NO FAULT SPORT GROUP**

**866-637-7678 (toll free)**

**[WWW.NOFAULT.COM](http://WWW.NOFAULT.COM)**