

No Fault PlaySafe 50 for Multi-Purpose

Product Specification

By No Fault Sport Group, LLC

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ARTIFICIAL TURF for MULTI-PURPOSE & HIGH-USE RECREATIONAL

PART 1 – GENERAL

AREAS

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications apply to this section.

1.2 DESCRIPTION OF WORK

- A. Provide all materials, labor, equipment and services required to accomplish related work in accordance with the drawings and specifications. The turf system shall be specifically designed, manufactured and installed for high use recreational areas. The turf system shall be IPEMA Certified and 100% wheelchair accessible (ASTM F 1951) in the field. The turf system shall drain up to 130 inches per hour (ASTM F 1551), excluding the crushed stone base. The turf system shall consist of, but not necessarily be limited to, the following:
 - 1. Synthetic turf consisting of nominal one and a half inch (1.5”) long polyethylene fibers with thatch that is tufted into a single, dimensionally stable, three component primary backing with a secondary backing consisting of a minimum of 17 ounces of urethane per square yard.
 - 2. Synthetic turf infill that is designed to cool the turf up to 30-50 degrees more than other turf applications as well as prolong the life of the turf fibers shall be used. A combination of two (2) pounds of HydroChill sand and one (1) pound of clean silica sand per square foot shall be mixed and installed via power broom-in at the jobsite.
- B. Work included in this Section includes leveling the existing area for shape and slope to create positive drainage to the area prior to installation of the synthetic turf in areas shown on Drawings.

PART 2 - PRODUCTS

2.1 SYNTHETIC TURF for Recreational Areas

- A. Sub-Base:

Aggregate base shall be crushed angular hard stone, ¾” minus compactible stone (not clean). Additional stone information can be found in section 3.2-B of this specification.
- C. Synthetic Turf:

Synthetic turf shall be specifically designed for high use recreational areas and shall be No Fault Play Safe 50 (#GB043) or Architect approved equal and shall include no less than the qualifications listed below:

 - 1. Fiber Type: Polyethylene Slit Tape
 - 2. Fiber Mass: 8000 denier

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3. Thatch: 6 ply TXT, 7300 denier
 4. Tufted Pile Height: 1.50 inches
 5. Color: Olive with Olive thatch
 6. Tufting Gauge: ¼”
 7. Primary Backing: 7 oz./yd2 (Stabilized dual layered woven polypropylene)
 8. Secondary Backing: 17 oz./yd2 (100% Urethane)
 9. Tufted Face Weight: 50 oz. /yd2 (ASTM D 418).
 10. Total Product Weight: 74 oz./yd2 (ASTM D 418)
 11. Finished Roll Width: 15 feet
 12. Finished Roll Length: Up to 100 feet (standard)
 13. Warranty: 5 year wear, 10-year fade
- D. Synthetic Turf Infill shall include HydroChill™ with Bac-Shield or Architect approved equal and shall include no less than the qualifications listed below:
1. Color: Light Brown/Buff
 2. Anti-Microbial
 3. Non-toxic
 4. Grain shape: Hardness: 6-8 Mohs
 5. Krumbein Roundness: 0.8
 6. Krumbein Sphericity: 0.8
 7. Specific Gravity: 2.65 lb. per cf
 8. Bulk Density: 97.4 lb./ft3
 9. Mesh Size: 16/30
 10. Porosity: 10-15%
 11. Acid Solubility: < 2.0%
 12. Turbidity (FTU): <250
 13. Temperature Stability Fahrenheit: 1400
 14. Angle of Repose: +-30 degrees
 15. Dust: Negligible

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NOTE: HydroChill sand shall be mixed with clean silica sand at the jobsite as follows: Two (2) pounds of HydroChill and one (1) pound of clean silica per square foot. Both shall be installed with drop spreader and power broom.

NOTE: Irrigation (sprinklers) can be set to water the synthetic turf surface (after hours) once every 3.5 days during the summer months.

- E. Splicing Material (seaming tape):
Splicing material shall be Kingsport BV-Holland® 12” wide minimum, spun-bonded polyester or Architect approved equal.

- F. Adhesive:
Adhesive shall be Nordot 34G or Architect approved equal.

PART 3 - EXECUTION

3.1 GROUND PREPARATION

- A. General:
The ground area to receive synthetic turf safety surface is indicated on the Drawings.

- B. Leveling and Site Preparation:
All organic material and organic debris to be removed. Soil to be graded level and stabilized (compacted). Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers.

3.2 BASE AND SYNTHETIC TURF CONSTRUCTION

- A. General:
The area to be smooth and graded to allow proper drainage. Refer to grading plan. The overall grade of the playground is not to exceed 3%.

- B. Compacted Aggregate Base:
Place 4 inches of aggregate base as leveling layer compacted to 90% of max density per AASHTO T99. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be ¾” minus (compactable).

- C. Synthetic Turf:
Place turf and cut to fit configuration as shown on Drawings. Splice seams. All seams must be attached with splicing film/fabric and adhesive as approved by the manufacturer for this type of installation of their product.

- D. Infill:
Apply layers of synthetic turf infill evenly with a spreader and broom the turf fibers with stiff bristle broom to stand fibers up and allow infill to settle into the bottom. Broom in two (2) pounds of HydroChill sand and one (1) pound of clean silica per square foot.

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E. Anchoring/Edging:

Edges of turf will be secured to ground or concrete curb with mechanical fasteners, stakes or edging.

PART 4 – WARRANTY

4.1 WARRANTY

No Fault PlaySafe 50 Turf for Recreational Use shall be guaranteed against defects in workmanship and materials for a period of no less than ten (10) years or as specified and agreed upon per contract.