



Nylon Green Synthetic Turf Putting Green Specification

PART 1 – GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, equipment, and tools necessary for the complete installation of a synthetic putting green surface. The system shall consist of, but not necessarily be limited to, the following:
 - a) Synthetic grass consisting of fibers that are a minimum of ½" inch long. Turf fiber construction consisting of nylon fibers tufted into a 2-layer stabilized woven polypropylene fabric (primary backing), with a secondary backing of Duraflo (Polypropylene hot-melt adhesive married to a PP geotextile fabric). (XGrass® Nylon Putting Green synthetic turf or equivalent).
 - b) Fringe Turf shall consist of XGrass® Nylon Fringe turf or equivalent.
 - c) Synthetic Grass can be infilled with 40-60 sieve Silica sand which designed to provide the look, feel, and performance of optimally maintained natural grass greens. Unimin 3060 or equivalent.

1.2 RELATED SECTIONS

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

- A. Section 02 00 00 – Existing Conditions
- B. Section 31 23 00 – Excavation and Fill
- C. Section 32 11 23 - Aggregate Base Courses

1.3 SUBMITTALS

- B. Comply with Section 01 33 00, Submittals Procedures.
- C. Product Data: Submit manufacturer's product data, including installation instructions and subsurface instructions. .
- D. Warranty: Submit manufacturer's standard 10 year limited warranty.

1.4 QUALITY ASSURANCE

- E. Comply with Section 01 43 00, Quality Assurance.
- F. Installer Qualifications: The turf contractor shall specialize in installing the products specified in this section. The contractor shall be certified in writing, by the turf manufacturer, as competent in the installation of the specified synthetic turf material specified, including proper installation of the infill mixture.

PART 2 – PRODUCTS

2.1 SYNTHETIC GRASS SURFACE

- G. Two Layer Aggregate Base – Crushed angular hard stone. 1" minus compactible stone as coarse base. ¼" minus compactible stone as levelling base. (Refer to Section 3.2-B & C).
- H. Synthetic grass: .50" Nylon Putting Green synthetic turf from XGrass®, 210 Howell Drive, Dalton, GA 30721 : Phone (877) 881-8477 or approved equal.



- I. Nylon Putting Green
 - a) Face Weight 40 oz/sy
 - b) Face Yarn Type: Nylon
 - c) Yarn Size 6600 denier
 - d) Pile Height: .43 inches
 - e) Color: Turf Green
 - f) Construction: Broadloom tufted
 - g) Tufting Gauge: 3/16"
 - h) Primary Backing: Stabilized dual layered woven polypropylene, 7.0 oz/sq yd
 - i) Secondary Backing 10.7 oz. DuraFlo scrim with PP adhesive
 - j) Total Product Weight 58 oz/sy
 - k) Finished Roll Width 180" untrimmed
 - l) Warranty: 10 year fade

- J. Nylon Fringe
 - a) Face Weight 55 oz/sy
 - b) Face Yarn Type: Nylon
 - c) Yarn Size 8800 denier
 - d) Pile Height: 1.25 inches
 - e) Color: Turf Green
 - f) Construction: Broadloom tufted
 - g) Tufting Gauge: 3/16"
 - h) Primary Backing: Stabilized dual layered woven polypropylene, 7.0 oz/sq yd
 - i) Secondary Backing 20 oz. Urethane scrapecoat
 - j) Total Product Weight 82 oz/sy
 - k) Finished Roll Width 180" untrimmed
 - l) Warranty: 10 year fade

- K. Premixed black and green and colored top dressing (optional)
 - a) Application rate $\frac{3}{4}$ to 1 pound per square foot

- L. Splicing Material: 1000 denier coated nylon (Cordura®) 12" wide minimum.
- M. Adhesive: Synthetic Turf Adhesive (from XGrass)

PART 3 – EXECUTION

3.1 GROUND PREPARATION

- A. General: The ground area to receive synthetic grass 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 GRASS CONSTRUCTION

- A. General: The area to be smooth and graded to allow proper drainage. Refer to grading plan.
- B. Coarse Base: Place a 4-6 inch coarse aggregate base compacted to 90% - 95% of max density per AASHTO T99 over prepared substrate. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be 3/4" minus (compactible).
- C. Leveling Base: Place a $\frac{3}{4}$ " - 2" fine aggregate base as leveling layer directly over the coarse base. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers. Aggregate size should be $\frac{1}{4}$ " minus (compactible).



- D. Putting Cups: Install putting cups after leveling base is completed using Cup Mounting Sleeve from XGrass (as shown on Drawings).
- E. Synthetic Grass: 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.
- F. Infill: Apply layers of synthetic grass infill evenly with a drop-spreader and broom the turf fibers with stiff bristle broom to allow infill to settle into the bottom. Broom in infill of 30-60 silica sand approximately 2 pounds per square foot.
- G. Anchoring/Edging: Edges of turf will be secured to ground with mechanical fasteners, stakes or edging.
- H. Top Dressing: The Top Dressing application is optional, but recommended for enhanced appearance. Apply a thin layer of top-dressing with a drop spreader. Lightly brush the top-dressing to fill in areas that need additional sand and be sure to cover the silica layer and to give a richer appearance. Repeat the process until the top-dressing is within 1/8" to 1/4" from turf fiber tips.
- I. Rolling and Maintenance: To provide a smooth putting surface and to settle and 'lock-in' the sand infill, the green should be rolled with a smooth drum roller (300-2000 lbs) until desired speed and smoothness are achieved. In order to maintain softness, the putting green should be brushed, top-dressed, and rolled 1 to 4 times a year for residential installations. More frequent maintenance may be required in high traffic areas such as driving ranges, golf courses, or other commercial applications.