



Synthetic Turf for Landscape Specification

PART 1 – GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, equipment, and tools necessary for the complete installation of synthetic grass 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 1.54 inch long. Turf fiber construction consisting of polyethylene monofilament and either texturized monofilament fibers tufted to a 2-layer stabilized woven polypropylene fabric (primary backing), with a non-urethane, 100% recyclable secondary backing (stitch binder) of DuraFlo. (XGrass® synthetic turf or equivalent).
 - b) Synthetic Grass Infill, consisting of anti-microbial acrylic coated round silica particles, designed to provide the look, feel, and performance of optimally maintained natural grass. SofFill™ 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

- A. Comply with Section 01 33 00, Submittals Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions and subsurface instructions. .
- C. Warranty: Submit manufacturer's standard 9 year warranty.

PART 2 – PRODUCTS

2.1 SYNTHETIC GRASS SURFACE

- A. Aggregate Base – Crushed angular hard stone, ¾" minus compactible stone (not clean). (Refer to Section 3.2-B)
- B. Synthetic grass: 1.75" XGrass® Synthetic Turf for Landscapes from XGrass, 3210 Howell Drive, Dalton, GA 30721 Phone (877) 881-8477 or approved equal.
 - a) Face Weight Minimum 50 oz/sy
 - b) Face Yarn Type: Polyethylene
 - c) Yarn Size 10800/7300
 - d) Pile Height: 1.75 inches
 - e) Color: Blend
 - f) Construction: Broadloom tufted
 - g) Tufting Gauge: 1/4"
 - h) Primary Backing: Stabilized dual layered woven polypropylene
 - i) Secondary Backing 10.0 oz. DuraFlo (non-urethane, 100% recyclable)
 - j) Total Product Weight 69.7 oz/sy
 - k) Finished Roll Width 180" untrimmed
 - l) Warranty: 9 year fade



- C. Synthetic Grass Infill : SofFill™ from XGrass, 210 Howell Drive, Dalton, GA 30721 :
Phone (877) 881-8477 or approved equal. Coating: Priority acrylic, iron oxide and chromium oxide.
 - a) Grain shape: Hardness: 7.0 Mohs
 - b) Curvature: .65
 - c) Specific Gravity: 2.65 g/cm³
 - d) Bulk Density: 100 lb/cu ft
 - e) Uniform coefficient 1.10 to 1.40
 - f) Effective Size .85 – 1.1 mm
 - g) Blend rate of 3 to 4 lb per square foot.
- E. Splicing Material: 1000 denier coated nylon (Cordura®) 12" wide minimum.
- F. 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. 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 (compatible).
- C. 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.
- D. Infill: Apply layers of synthetic grass 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 infill round quartz silica sand approximately 3 pounds per square foot.
- E. Anchoring/Edging: Edges of turf will be secured to ground with mechanical fasteners, stakes or edging.

