

TREMIRON

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SPECIFICATIONS FOR CONCRETE TURFBLOCK

2014

PART 1 - GENERAL

1.1 Conformity - Conform to the requirements of the general conditions of the Contract.

1.2 Related Work in Other Sections of These Specifications.

- A. Preparation of the sub-base.
- B. Supply and place base course materials.
- C. Grass seeding and installation of topsoil in Turfblock.

1.3 Work Included.

- A. Supply and place sand bedding course.
- B. Supply and install interlocking concrete Turfblock in quantity, shape, thickness, and color as specified.
- C. Supply and place all accessory items as required by the contract.

1.4 Product Handling.

- A. Turfblock shall be delivered and unloaded at jobsite with or without pallets and bound in such a manner that no damage occurs to the product during handling, hauling, and unloading.

PART 2 - MATERIALS

2.1 Interlocking Concrete Turfblock.

A. Turfblock shall be manufactured by:

2885 St. Clair Street Jacksonville, FL 32254 866.358.5900 or 904.359.5900 Fax 904.359.5901	11321 NW 112th Court Medley, FL 33178 800.567.1480 or 305.825.9000 Fax 305.823.6614	3144 Highway 17 NE Arcadia, FL 34266 877.490.0990 or 863.491.0990 Fax 863.491.8990
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- B. Turfblock thickness shall be 3-1/8" (80mm)
- C. Turfblock color shall be Grey
- D. Turfblock shall be 23-5/8" x 15-3/4" with void area comprising 40% of total unit surface.

2.1.1

Cementitious Materials.

Portland cements shall conform to ASTM Specifications C-150.

2.1.2

Aggregates.

Aggregates shall conform to ASTM Specifications C-33 for Normal Weight Concrete Aggregate (no expand shale or lightweight aggregates) except that grading requirements shall necessarily apply.

2.1.3

Other Constitutes.

Coloring pigments, air-intraining agents, integral water repellents, finely ground silica, etc. shall conform to ASTM standards where applicable, or shall be previously established as suitable for use in concrete.

2.1.4

Physical Requirements.

- A. **Compressive Strength** – At the time of delivery to the work site, the average compressive strength shall not be less than 5,200 psi, with no individual unit strength less than 4,680 psi, with testing procedures in accordance with ASTM Standard C-140.
- B. **Absorption** - The average shall not be greater than five percent (5%) with no individual unit absorption greater than seven percent (7%).
- C. **Proven Field Performance** - Satisfying field performance indicated when units similar in composition and made with the same manufacturing equipment as those to be supplied to the purchaser, do not exhibit objectionable deterioration after at least one (1) year.

2.1.5

Visual Inspection.

- A. All units shall be sound and free of defects that would interfere with the proper placing of units or impair the strength or performance of the construction. Minor cracks incidental to the usual methods of manufacture, or minor chipping resulting from customary methods of handling in shipment and delivery, shall not be deemed grounds for rejection.

2.1.6

Sampling and Testing.

- A. The purchaser or his authorized representative shall be accorded proper facilities to inspect and sample the units at the place of manufacture from lots ready for delivery or random samples taken from each delivery at the jobsite.
- B. Sample and test units in accordance with ASTM Method C-140.

2.1.7

Rejection.

- A. In case the shipment fails to conform to the specified requirements, the manufacturer may sort it, and new test units shall be selected at random by the purchaser from the retained lot and tested at the expense of the manufacturer. In case the second set of test units fails to conform to the specified requirements, the entire lot shall be rejected.

2.1.8

Expenses of Tests.

- A. The expense of inspection and testing shall be borne by the purchaser unless otherwise agreed.

2.2 Sand Bedding Course.

- A. The sand bedding course shall be a well-graded, clean washed, sharp sand with 100% passing a 3/8" sieve size and a maximum 3% passing a No. 200 sieve size. This is commonly known as manufactured concrete sand, concrete screenings, or similar. **DO NOT USE MASON SAND.** The sand bedding course should be the responsibility of the Turfblock installer.

2.3 Edge Restraint.

- A. All edges of the installed Turfblock pavement shall be restrained. The type of edge restraint shall be approved at locations as noted on plans.

2.3.1

This edge restraint can be:

- A. Curb (precast)
- B. Buildings
- C. Concrete curb or sidewalk (cast-in-place)
- D. Pressure treated timber
- E. Other suitable method of preventing movement of edge stones.

PART 3 - EXECUTION

3.1 Examination.

- A. The Turfblock installer/contractor must have related experience in the installation of concrete block.
- B. A suitable base must be prepared in detail in other sections of the project specifications.
- C. The base course shall be shaped to grade and cross section with an allowable tolerance of 1/4" (5mm).
- D. The prepared base shall be 3-7/8" (100mm) below final grade for the 3-1/8" (80mm) Turfblock.

3.2 Construction of the Sand Bedding Course.

- A. The prepared base shall be approved before the placement of the sand bedding course.
- B. The uncompacted sand bedding course shall be spread evenly over the area to be paved and then screeded level to depth of 1 to 1-1/2" (25-38mm). Normally, it is good practice to have a final elevation of Turfblock slightly higher than the adjacent curbs, gutters, or other paving to allow for any minor settling that may occur within the base.
- C. Once screeded and leveled to the desired elevation, this sand bedding course shall not be disturbed in any way.

3.3 Laying of Concrete Turfblock.

- A. The Turfblock shall be laid in the approved pattern as noted or shown on the drawings. Common laying patterns are Herringbone*, Runner Bond, Parquet, etc. (*Herringbone pattern is recommended for vehicular traffic.)**
- B. The Turfblock shall be laid in such a manner that the desired pattern is maintained and the joints between the stones are as tight as possible.**
- C. String lines should be used to hold pattern lines true.**
- D. The gaps at the edge of the paver surface shall be filled with standard Turfblock cut to fit. Cutting shall be accomplished to leave a clean edge using a masonry saw. Whenever possible, no cuts should result with a Turfblock less than 1/3 of the original dimensions.**
- E. Aperture of Turfblock shall be filled with designated topsoil, seeded and maintained as per specifications.**
- F. No traffic shall be allowed on the Turfblock until the effects of the grass and moisture have stabilized the topsoil in the apertures.**
- G. Upon completion of work covered in the Section, the Contractor shall clean up all work areas by removing debris, surplus material and equipment from the site.**

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