
REINFORCED TURF PERMEABLE PAVING

PART 1 GENERAL**1.1 Related Work**

- .1 Section [02311](#) Site Grading
- .2 Section [02315](#) Excavating, Trenching and Backfilling.
- .3 Section [02938](#) Sodding

1.2 Samples

- .1 Submit samples in accordance with [01330](#) - **Submittals**.
- .2 Submit a 1 m x 0.5 m sample of Geoblock material to the Consultant for approval prior to installation.
- .3 Indicate manufacturer and source of Geoblock material.

1.3 Delivery and Storage

- .1 During delivery and storage, protect Geoblocks from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust, debris and rodents.

1.4 Measurement for Payment

- .1 Geoblock will be measured in square metres of surface covered by material. No allowance will be made for seams and overlaps.

1.5 Waste Management and Disposal

- .1 Separate and recycle waste materials in accordance with Section 01561 - Environmental Protection.

PART 2 PRODUCTS**2.1 Material**

- .1 Geoblock or Approved Aternate:

Manufacturer: Layfield Geosynthetics & Industrial Fabrics Ltd.
Model: Geoblock 5150
Dimensions: 0.5m x 1.0m
Unit Depth: 50mm

REINFORCED TURF PERMEABLE PAVING

Phone: 1.888.436.4273

- .2 Geoblock units shall be made from materials with physical and chemical characteristics. The manufactured Geoblock units shall have a minimum deflection without breakage of 1.0 in (25 mm) when units are supported at 1.64 ft (0.50 m) centers at 70°F (21°C). The color shall be uniform through all units in any given pallet.
- .3 Geoblock units shall have an interlocking offset tab system on all edges as detailed in both Figures 2 and 3. End-to-end or side-to-side warpage of the Geoblock units shall not be greater than 0.25 in (6 mm).

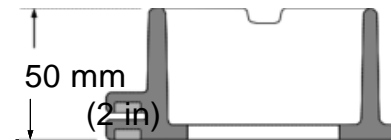
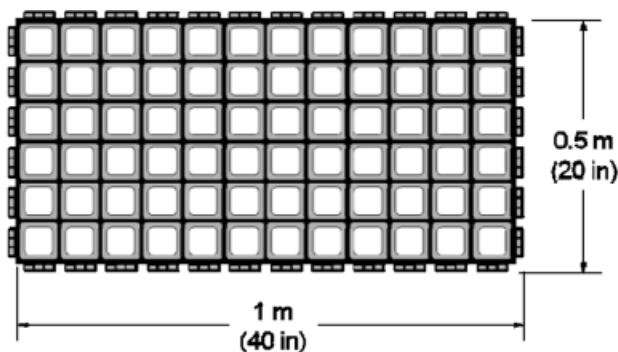


Figure 3
Geoblock5150[®] Cell and Interlocking

Figure 2 Geoblock5150[®] Unit Nominal Dimensions

PART 3 EXECUTION

3.1 Installation

- .1 Subgrade Preparation
- .1 Excavate the area, allowing for the Geoblock unit thickness and the *engineered base* depth (where the *engineered base* is required). Level and clear the area of large objects such as rocks, pieces of

REINFORCED TURF PERMEABLE PAVING

wood, etc. to enable the Geoblock units to interlock properly and remain stationary after installation.

- .2 Orientation & Laying Pattern of Units
 - .1 Place the Geoblock units with the square hole to the ground.
 - .2 Place Geoblock module onto graded surface in manner and locations indicated and retain in position in accordance with manufacturer's specifications.
 - .3 Abut each module with one another in accordance with plan layout.
 - .4 Join successive modules of Geoblock as per manufacturer's specifications
 - .5 Cut the units with a hand or power saw to custom fit both contours and around obstructions.
 - .6 Protect Geoblock from displacement, damage or deterioration before and during placement of overlay soil layers
- .3 Positioning of Units
 - .1 Place the first row of Geoblock units against a stationary edge when available.
 - .2 Slide the units together so that the interlocking tab joint is fully engaged. Units should be placed such that corners and seams do not protrude above the desired surface elevation.
- .4 Anchoring Units
 - .1 The Geoblock units can be fixed in-place to prevent the units from shifting during installation with optional wood or metal stakes through the perimeter units, and/or, by placing thread-forming tapping screws (i.e. 1-1.5 in deck screws) through the perimeter interlocking tabs. This may be needed if 1) trafficking / turning of heavier construction vehicles cause movement of the units during the installation process or 2) large temperature changes occur during the installation process. In both cases, fixing the units in-

REINFORCED TURF PERMEABLE PAVING

place should occur after installation of all the units within the defined area.

3.2 Infilling the Geoblock Unit

- .1 Infill the Geoblock units with a suitable topsoil. Use spreading methods that will leave the cell infill un-compacted. Overfilling the cells is not recommended.
- .2 Infilling should take place immediately after the units are installed to minimize the potential of joint separation caused by thermal expansion and contraction. Upward buckling of the Geoblock area is generally not an issue if the units have been installed using the recommended laying patterns and infilled.

3.3 Finishing Procedures

- .1 Sod Application
 - .1 Sod can be used for areas where immediate use is desired. Young sod that is free from netting materials is recommended.
 - .2 When sod is used:
 - .1 Sweep out the topsoil from the Geoblock unit to allow room to seat the sod. Enough topsoil must be removed so that the crown of the sod is recessed slightly below the top of the cell after pressing the sod in place.
 - .2 Place and press the sod into the cells using a roller. Make sure bottom of sod makes contact with topsoil.
 - .3 Water as per Sodding Specification (Section 02938) to ensure healthy sod growth.

3.4 Protection

- .1 Protect Geoblock from displacement, damage or deterioration before and during placement of overlay soil layers.
- .2 Replace damaged or deteriorated Geoblock to approval of the Consultant.

END OF SECTION - 02071