

## Product Evaluation

### RE: Review of Terrafix Biaxial Geogrids TBX 1500

#### **PRODUCT**

Terrafix Biaxial Geogrids TBX1500 is manufactured and supplied by Terrafix Geosynthetics Inc. Toronto.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

Terrafix® Biaxial Geogrids TBX series provide a simple, cost effective solution for soil reinforcement. Improve highways and other heavily trafficked areas, even when conditions are less than perfect, including: weak subgrades, contaminated soils, heavy loads, high granular costs and shallow-buried utilities. TBX series geogrids provide structural reinforcement of roads and parking areas through excellent stiffness and interlock capabilities. Product web link: [www.terrafixgeo.com](http://www.terrafixgeo.com)

##### **DESCRIPTION:**

Terrafix® Biaxial Geogrids TBX1500 is produced from an extruded sheet of polypropylene which is then punched and drawn. It has a wide range of pH resistance (2-13) and it claims 100% resistance to UV degradation.

##### **POTENTIAL USAGE:**

Terrafix® Biaxial Geogrids TBX1500 is mainly used for “soil stabilization” and for soil reinforcement applications such as strengthening road subgrade.

##### **STANDARDS:**

ASTM D6637 Tensile and ultimate tensile strengths, GRI-GG2 Junction strength  
ASTM D7748 Flexural Rigidity, ASTM D4355 Resistance to heat, light and moisture

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has some experience with bi-axial geogrids.

##### **APPLICATION STANDARDS:**

Alberta Transportation does not have a standard for geogrids. All geogrids applications must be properly designed by a Professional Engineer (e.g., registration with APEGA). The use of extensible reinforcement in MSE bridge abutments or wing walls shall conform to the *Standard Specifications for Bridge Construction Section 25, Mechanically Stabilized Earth Walls*.

<http://www.transportation.alberta.ca/Content/docType246/Production/SpecificationsforBridgeConstruction2013.pdf>

##### **RECOMMENDATIONS:**

Terrafix Biaxial Geogrids TBX1500 be listed as a Potential Product under Alberta Transportation Products List, Geosynthetics – Geogrid – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

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