

Product ID: 8150-4-1-21c Initiation Date: September 2014 Revision Date: October 16, 2014 Expiry Date: October 2017

# **Product Evaluation**

# **RE: Review of Terrafix Biaxial Geogrids TBX2500**

#### **PRODUCT**

Terrafix Biaxial Geogrids TBX2500 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

### **DESCRIPTION:**

Terrafix® Biaxial Geogrids TBX2500 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 TBX2500 is mainly used for "soil stabilization" and 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 confirm to the Standard Specifications for Bridge Construction Section 25, Mechanically Stabilized Earth

http://www.transportation.alberta.ca/Content/docType246/Production/SpecificationsforBridgeCo nstruction2013.pdf

### **RECOMMENDATIONS:**

Terrafix Biaxial Geogrids TBX2500 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