

**Product Evaluation**

**RE: Review of Terrafix Triangular Geogrid TTX – 7, TTX130 and TTX160**

**PRODUCT INFORMATION**

Product Name: Terrafix Triangular Geogrid TTX7, TTX130 and TTX160  
Website: https://terrafixgeo.com/

Manufacturer: Terrafix Geosynthetics Inc. Calgary  
Supplier: Terrafix Geosynthetics Inc.

**VENDOR CLAIMS AND INFORMATION**

**CLAIMS**

Polypropylene is stable within a pH range of 2 to 13, making it one of the most stable polymers for geogrids.

**DESCRIPTION**

TTX series geogrids are polypropylene single layer extruded in a three-dimensional direction. These engineered geogrids are stabilized to resist degradation due to ultraviolet exposure. They are resistant to commonly encountered soil chemicals, mildew, and insects, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13, making it one of the most stable polymers available for geogrids today.

**POTENTIAL USAGE**

TTX series geogrids used as an effective base reinforcement and subgrade improvement.

**STANDARDS**

- ASTM D6637 - Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method
- ASTM D7737 - Standard Test Method for Individual Geogrid Junction Strength
- ASTM D4355 - Standard Test Methods for Resistance to UV Degradation
- ASTM D4759 - Standard Practice for Determining the Specification Conformance of Geosynthetics

**ALBERTA TRANSPORTATION COMMENTS**

**EXPERIENCE**

Alberta Transportation and Economic Corridors has used similar products in its projects.

**APPLICABLE STANDARDS**

Alberta Transportation and Economic Corridors does not have a standard for geogrids.

**RECOMMENDATIONS**

Terrafix Triangular Geogrid TTX – 7, TTX130 and TTX160 be listed as a Reviewed Product under Transportation and Economic Corridors Products List, Geosynthetics – Geogrid – Tri-Axial Geogrids - Proprietary, based on the information provided.

**RESTRICTIONS ON USE**

Caveat: All geogrid applications must be properly designed by a Professional Engineer registered with APEGA. The use of extensible reinforcement in MSE bridge abutments or wing walls applications shall confirm to the requirements of Alberta Transportation and Economic Corridors Standard Specifications for Bridge Construction Section 25, Mechanically Stabilized Earth Walls.

**TRIAL PROJECTS**

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