

## Product Evaluation

### RE: Review of AllianceGeo BX Type 1 Geogrid

#### **PRODUCT**

AllianceGeo BX Type 1 geogrid is a bi-axial Geogrid manufactured by BOSTD America located in Blackwell, Oklahoma, USA and it is supplied in Alberta by Pacific Geosource located in Drain, Oregon USA.

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

##### **CLAIMS:**

AllianceGeo BX Type 1 geogrids are manufactured such that their ribs and apertures form an integral structure. This facilitates “mechanical interlock” as larger aggregate particles partially penetrate through the geogrid’s apertures. Once the overlying aggregate is compacted, the effect is to provide an efficient means by which to transfer dynamic loads to the geogrid and thereby form a composite material with increased stiffness and better performance when trafficked. It features high stiffness at low strain and excellent resistance to installation damage and environmental effects (UV, chemical, biological attack, etc.). Company website: <https://pacificgeosource.com/>

##### **DESCRIPTION:**

AllianceGeo BX geogrids are plastic, grid-like products delivered to a job site in roll form. They are manufactured using Polypropylene or High-Density Polyethylene (> 97%), Carbon Black (< 3%) and Proprietary Stabilizers (< 1%).

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

AllianceGeo BX Type 1 geogrids can be used for reinforcement of paved / unpaved roads and temporary working surfaces.

##### **STANDARDS:**

ASTM D6637 Tensile strength, ASTM D 1388 (Cantilever Method) Flexural Rigidity,  
ASTM D 638 MODIFIED Junction Efficiency, ASTM D4592 Tensile Property by Multi-Rib method,  
ASTM D3776 Mass per Unit Area

#### **ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation and Economic Corridors has no experience with this product.

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

Alberta Transportation and Economic Corridors does not have a standard for geogrids. All geogrid applications must be properly designed by a Professional Engineer (registration 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.

##### **RECOMMENDATIONS:**

AllianceGeo BX Type 1 Geogrid be listed as Reviewed Products under Alberta Transportation and Economic Corridors Products List, Geosynthetics – Geogrids - Proprietary, based on the information provided.

#### **TRIAL PROJECTS**

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