

Product Evaluation

RE: Review of Mirafi BXG110 and BXG120 Biaxial Geogrid

PRODUCT

Mirafi BXG110 and BXG120 Biaxial Geogrids are Biaxial Geogrids manufactured by Tencate Geosynthetics located in Pendergrass, Georgia, USA and distributed in Alberta by Cascade Geotechnical Inc. located in Edmonton, Alberta. Website: <https://www.tencategeo.us/en-us/products/geogrids/mirafi-bxg>

VENDOR CLAIMS AND INFORMATION

CLAIMS

Mirafi BXG110 and BXG120 are inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

DESCRIPTION

Mirafi BXG110 and BXG120 geogrids are composed of polypropylene resin which is extruded, punched and drawn into the grid structure.

POTENTIAL USAGE

Mirafi BXG geogrids deliver strength, long-term performance, reliability and quick installation for base reinforcement for paved roads, construction haul roads, foundation reinforcement, working platforms on weak subgrades, and secondary reinforcement for soil retaining structures.

STANDARDS

ASTM D 6637: Tensile Strength	ASTM D 7748: Flexural Rigidity
ASTM D 7748: Flexural Rigidity	ASTM D 4355: UV Radiation

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Alberta Transportation and Economic Corridors has experience with these types of products.

APPLICABLE STANDARDS

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

RECOMMENDATIONS

Mirafi BXG110 and BXG120 Biaxial Geogrids be listed as Reviewed Products under Alberta Transportation and Economic Corridors Products List, Geosynthetics – Geogrids – Biaxial - Proprietary, based on the information provided.

RESTRICTIONS ON USE

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 conform to the requirements of Alberta Transportation and Economic Corridors Standard Specifications for Bridge Construction Section 25, Mechanically Stabilized Earth Walls.

TRIAL PROJECTS

HWY33:12 (CONTRACT 14926)

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