

Product Evaluation

RE: Review of Tensar Amerigrid 3030 (Formerly Earthlock 3030) Biaxial Geogrid

PRODUCT

Tensar Amerigrid (formerly Earthlock 3030) is a Biaxial Geogrid manufactured by Tensar International Corporation located in Alpharetta, Georgia, USA and distributed in Alberta by Brock White Construction Materials located in Edmonton, Alberta. Website: <https://www.tensarcorp.com>

VENDOR CLAIMS AND INFORMATION

CLAIMS

Tensar Amerigrid 3030 Biaxial Geogrid is used for subgrade base course reinforcement in roadways application.

DESCRIPTION

Tensar Amerigrid 3030 Biaxial Geogrid is manufactured of a select grade of polypropylene (PP) or polypropylene/polyethylene copolymer extruded into a thick, continuous sheet. After punching the sheet with a precise arrangement of holes, the sheet is preheated and then stretched first in its machine direction (MD) and then in its cross-machine direction (CMD) thus drawing the holes into large, rectangular apertures. Biaxial stretching pre-stresses the sheet, thus enhancing its tensile strength in both the MD and CMD.

POTENTIAL USAGE

The Biaxial geogrid is used to laterally reinforce and confine granular aggregates to create a stronger composite structure, which increases the performance of the underlying subgrade or aggregate base course in roadways application.

STANDARDS

ASTM D 6637: Tensile Strength
ASTM D 7748: Flexural Rigidity
ASTM D 7748: Flexural Rigidity

ASTM D 7737: Junction Strength
ASTM D 7864: Aperture Stability Modulus

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

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

APPLICABLE STANDARDS

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

RECOMMENDATIONS

Tensar Amerigrid 3030 Biaxial Geogrid be listed as Reviewed Product under Alberta Transportation and Economic Corridors Products List, Geosynthetics – Geogrids – Biaxial - Proprietary, based on the information provided.

RESTRICTIONS ON USE

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.

All geogrid applications must be properly designed by a Professional Engineer registered with APEGA.

TRIAL PROJECTS

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