

Product Evaluation

RE: Review of Layfield RX Series Bi-axial geogrids PP (RX1100 and RX1200)

PRODUCT

Layfield RX Series Bi-axial geogrids PP (RX1100 and RX1200) are manufactured by Beijing Orient Science & Development Co. (BOSTD) and distributed in Alberta by Layfield Group.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Layfield RX Series Bi-axial geogrids PP (RX1100 and RX1200) are manufactured with polypropylene and provide good tensile strength in both directions. The reinforcing action of geogrids lies mainly in increasing the shearing resistance within a soil by a process of interlocking between the square ribs and the soil. The load dispersal effect from the interlocking mechanism is more effective and can reduce sub-base thickness and construction cost. Company website: www.layfieldgroup.com.

DESCRIPTION:

Layfield RX Series Bi-axial geogrids can be used with any kind of fill material. One layer or multi-layer construction distributes loading and disperses stress more effectively, leading to the reduction in differential settlement and improved foundation bearing capacity.

POTENTIAL USAGE:

Used as base reinforcement for roads, storage yards and parking lots and other load bearing structures.

STANDARDS:

ASTM D6637 Wide width tensile strength, ASTM D6637 Strengths at 2% strain and 5% strain,
GRI-GG1 / GG2 Junction efficiency, ASTM D1388 mod. Flexural rigidity,
US Army COE method Aperture stability,

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:

Layfield RX Series Bi-axial geogrids PP (RX1100 and RX1200) 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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