Alberta Government

Product ID: 8150-4-1-43
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Product Evaluation

RE: Review of Strata Grid (SGU) Series

PRODUCT
Strata Grid (SGU) Series is a series of knitted (woven) uniaxial geogrid manufactured and distributed in Alberta by Strata Systems, Incorporated located in Burlington, North Carolina. Website: www.geogrid.com

VENDOR CLAIMS AND INFORMATION

CLAIMS
Strata Grid (SGU) series geogrids are constructed of high molecular weight and high tenacity polyester yarns utilizing a complex knitting process and polymeric coating to provide superior engineering properties. Yarns are precision knitted into a dimensionally stable, uniform network of apertures providing significant tensile reinforcement capacity. STRATAGRID is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments.

DESCRIPTION
Strata Grid (SGU) Series is a series of knitted (woven) uniaxial geogrid made from polyester yarns. The series contains SGU 40, SGU 60, SGU 80, SGU 100, SGU 120, SGU 150, SGU 180, SGU 200, SGU 300 and SGU400.

POTENTIAL USAGE
Strata Grid SGU series is a geogrid series used for reinforcement for soil slopes, Retaining walls, Embankments over soft soils, Load Transfer Platforms (LTP), as well as other soil reinforcement applications.

STANDARDS
ASTM D 6637Method B Wide-Width: Tensile Strength
ATSM D6692/D5262: Creep Reduction Factor ASTM D5262/D6992: Creep Limited Strength

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
Strata Grid SGU Series Uni-axial Geogrids (SGU 40, SGU 60, SGU 80, SGU 100, SGU 120, SGU 150, SGU 180, SGU 200, SGU 300 and SGU400) be listed as Reviewed Products under Alberta Transportation and Economic Corridors Products List, Geosynthetics – Geogrids - Proprietary, based on the information provided.

RESTRICTIONS ON USE
Caveat: All geogrid applications must be properly designed and stamped 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.

TRIAL PROJECTS

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