Alberta Government

Product ID: 8150-4-1-45
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Product Evaluation

RE: Review of Synteen - SF Series Uniaxial Geogrids

PRODUCT
Synteen - SF Series Uniaxial Geogrids is manufactured by Synteen Technical Fabrics, Inc., located in Lancaster, South Carolina and it is distributed in Alberta by Cross Country Canada Ltd. located in Spruce Grove, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS
SF Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. Website: www.synteen.com

DESCRIPTION
SF Series Geogrids are composed of high molecular weight, high tenacity multifilament polyester yarns that are woven into a stable network placed under tension. These high strength polyester yarns are coated with PVC material.

POTENTIAL USAGE
SF Geogrids are typically used for soil reinforcement applications such as retaining walls, steepened slopes, embankments, sub-grade stabilization, embankments over soft soils and waste containment applications.

STANDARDS
ASTM D 6637 - Ultimate Strength (MD), ASTM D 5262 - Creep Limited Strength (MD), NCMA 97 - Long Term Design Strength (MD)

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 standard specifications for geogrids.

RECOMMENDATIONS
Synteen - SF Series Uniaxial Geogrids (SF20, SF 35, SF 55, SF 65, SF 80, SF 90, SF 95, SF 110, SF 180, SF 190, SF 350) 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 by a Professional Engineer (registration with APEGGA). The use of extensible reinforcement on MSE Bridge abutments and wing-wall applications shall conform to requirements of Alberta Transportation and Economic Corridors Standard Specifications for Bridge Construction, Section 25, Mechanically Stabilized Earth Wall.

TRIAL PROJECTS

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