

Product Evaluation

RE: Review of Maccaferri ParaLink Series Geogrids (ParaLink 300, ParaLink 400, ParaLink 500, ParaLink 600, ParaLink 700, ParaLink 800, ParaLink 1000, ParaLink 1200, ParaLink 1350, ParaLink 1500)

PRODUCT

Maccaferri ParaLink Series Geogrids are manufactured and distributed in Alberta by Maccaferri Canada Ltd. Located at Cambridge Ontario. Company website: <https://www.maccaferri.com/ca/>

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Maccaferri ParaLink Series Geogrids are manufactured from high tenacity, multifilament polyester yarns aligned and co-extruded with polyethylene (LLDPE) to form polymeric strips. The heavy LLDPE coating enables ParaLink Series geogrids to be used as reinforcement of contaminated or high aggressive materials for use in environmental applications.

DESCRIPTION:

Paralink Series Geogrids are uniaxial geogrids of planner structures, consisting of a regular array of geosynthetic straps, nominally interconnected laterally to form soil reinforcement material. The main loadbearing straps comprise cores of polyester tendons encased in a polyethylene sheath. The main strips are laid flat in the machine direction with a secondary strip laid and welded across the full width in the cross direction.

POTENTIAL USAGE:

MSE Wall, embankment over soft soil, sink holes, piled embankments, steep and shallow slopes, basal foundation.

STANDARDS:

ASTM D5261 Mass per Unit Area, GRI-GG7 Polymeric (Core) Carboxyl End Group (CEG Max.)
ASTM D6637 Ultimate tensile strength (MD), GRI-GG8 Molecular Weight, ISO/TR 20432:2007 guidelines for the determination of the long-term strength of geosynthetics for soil reinforcement,

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 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*.

RECOMMENDATIONS:

Maccaferri ParaLink Series Geogrids (ParaLink 300, ParaLink 400, ParaLink 500, ParaLink 600, ParaLink 700, ParaLink 800, ParaLink 1000, ParaLink 1200, ParaLink 1350, ParaLink 1500) 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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