

Product Evaluation

RE: Review of Maccaferri MacGrid CG 20, 30 and 40

PRODUCT

Maccaferri MacGrid CG is a geocomposite series is manufactured and distributed in Alberta by Maccaferri Canada Ltd located in Cambridge, Ontario. Website: <https://www.maccaferri.com/ca/>

VENDOR CLAIMS AND INFORMATION

CLAIMS

MACGRID® CG Geogrids are geocomposites especially designed for soil stabilisation and reinforcement applications.

DESCRIPTION

MACGRID CG Geogrids (CG20, CG30 and CG40) are manufactured by bonding a Biaxial Geogrid to a nonwoven polyester geotextile.

POTENTIAL USAGE

MACGRID CG Geogrids are geocomposites designed for soil stabilization and reinforcement applications.

STANDARDS

ASTM D6637 – tensile Strength	ASTM D4595 – Tensile Elongation
ASTM D 6261 – CBR Puncture Strength	ASTM D4751 - Apparent Opening Size

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. However, for the geotextile component of the product, Highway Construction Standard 5.31 – Geotextile, applies.

RECOMMENDATIONS

Maccaferri MacGrid CG 20, 30 and 40 be listed as Reviewed Products under Alberta Transportation and Economic Corridors Products List, Geosynthetics – Composite Geosynthetics - Proprietary, based on the information provided.

RESTRICTIONS ON USE

Caveats:

1. All geogrid applications must be properly designed by a Professional Engineer registered with APEGA.
2. The use of extensible reinforcement in MSE bridge abutments or wingwalls shall conform to the current Alberta Transportation and Economic Corridors MSE Wall Specifications.
3. The geotextile component of this product is equivalent to Type B Nowoven Geotextile mentioned in the Highway Construction Standard 5.31 – Geotextile. The product shall not be used in the location where Type B Nowoven Geotextile is not suitable.

TRIAL PROJECTS

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