

Product Evaluation

RE: Review of Reno Mattress

PRODUCT INFORMATION

Product Name: Reno mattress Manufacturer: Maccaferri Canada Ltd located in Cambridge, Ontario
Website: <https://www.maccaferri.com/ca/> Supplier: Maccaferri Canada Ltd located in Cambridge, ON

VENDOR CLAIMS AND INFORMATION

CLAIMS

Reno mattress is a double-twisted wire mesh container uniformly partitioned into internal cells with relatively small height in relation to other dimensions, having smaller mesh openings than the mesh used for gabions; interconnected with other similar units and filled with stone at the project site to form flexible, permeable, monolithic channel linings, revetments, scour protections and other erosion control structures.

DESCRIPTION

The steel wire used for manufacturing of PoliMac coated Reno mattresses is heavily Zinc coated soft or medium temper steel in accordance with ASTM A975, style 3 coating. A high abrasion resistant polymer coating is then applied to provide additional protection for use in polluted, contaminated, or aggressive environments: in salt, fresh water, acid soil or wherever the risk of corrosion is present. The high abrasion resistant polymer coating has a nominal thickness of 0.50 mm.

POTENTIAL USAGE

Side of road where a recommended clear zone and recoverable slope is not attainable.

STANDARDS

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ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Transportation and Economic Corridors has no experience with this product.

APPLICABLE STANDARDS

Alberta Transportation Erosion and Sediment Control Manual (2010) – B.M.P. # 2
Alberta Transportation Standard Specification for Highway Construction, Section 6.10 – Gabions and Gabion Mattresses

RECOMMENDATIONS

Reno mattress be listed as a Potential Product under Alberta Transportation Products List, Erosion Control Systems – Gabions and Mats – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat: Gabion mattresses shall have minimum thickness of 230mm.

TRIAL PROJECTS

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