

Product Evaluation

RE: Review of Maccaferri L Panel Wall

PRODUCT

Maccaferri L Panel Wall is manufactured and distributed by Maccaferri Canada Ltd located in Cambridge, Ontario.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Maccaferri L Panel Wall is used for soil reinforcement such as mechanically stabilized embankments. This type of wall system is used for either long term or temporary applications. Product website is: <http://www.maccaferri.com/ca/>

DESCRIPTION:

Maccaferri L Panel Wall wire formed wall system is made of successive lifts of a steel welded wire mesh sheet that is bent 90° along the longitudinal axis to form an “L” shaped unit. The vertical 45cm high section provides a face that retains the fill. The horizontal bottom section of the Maccaferri L Panel Wall is extending 45cm in the backfill. The welded wire forms shall be made of wire type W4 as per ASTM A82 Table 6.

POTENTIAL USAGE:

Maccaferri L Panel Wall is a mechanically stabilized earth structure used to provide soil reinforcement for unstable slopes and embankments. The wall can be constructed using stone and vegetative type of facing. .

STANDARDS:

ASTM A82, A185, A123

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has experience in using similar products.

APPLICATION STANDARDS:

Design governed by design criteria in AASHTO “Standard Specifications for Highway Bridges” (2002) and FHWA “Mechanically Stabilized Earth Structures and Reinforced Soil Slopes – Design and Construction Guidelines”.

RECOMMENDATIONS:

Maccaferri L Panel Wall be listed as a Trial Product under Alberta Transportation Product List, Earth Retaining Systems – Reinforced Soil System (WALL) – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Project: Stoney Trial DB1, Contractor: EllisDon, Installed: September 2020, Designer: Geo Stabilization Inc.

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Transportation

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