

Product Evaluation

RE: EarthTech e-Wire Retaining Wall

PRODUCT INFORMATION

Product Name: EarthTech e-Wire Retaining Wall Manufacturer: EarthTech Wire Partners
Website: www.earthtechgroup.com Supplier: EarthTech Solutions Corp. Calgary

VENDOR CLAIMS AND INFORMATION

CLAIMS

The e-Wire Retaining Wall system anchors any flexible polymeric reinforcement to hot dipped galvanized Welded Wire Mesh (WWM) with a mechanical connection. The strut was specially designed to hook the WWM also the anchoring rod and the secure rod to robust the integrity of the system.

DESCRIPTION

The EarthTech e-Wire MSE Retaining Wall has a mechanical connection – suitable for vertical retaining walls. With a hand pull taut to secure the connection, it is incredibly easy to install and move. It has a self-locked design to minimize the movement. The reinforcement length is adjustable which makes it a superior advantage for two staged wall and back-to-back berm. Can utilize onsite soils as backfill, minimizing the cost of removing excavated material and/or importing new fill material.

POTENTIAL USAGE

For earth retaining system.

STANDARDS

ASTM D 6638 - Standard Test Method for Determining Connection Strength Between Geosynthetic Reinforcement and Segmental Concrete Units (Modular Concrete Blocks)

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Transportation and Economic Corridors has no experience with this product.

APPLICABLE STANDARDS

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

Alberta Transportation and Economic Corridors Standard Specifications for Bridge Construction Section 25 - Mechanically Stabilized Earth Walls

RECOMMENDATIONS

EarthTech e-Wire Retaining Wall be listed as a Trial Product under Transportation and Economic Corridors Products 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.

RESTRICTIONS ON USE

Caveat: For use on Alberta highway projects, this product must be appropriately designed and stamped by a Professional Engineer registered with APEGA. Additionally, any application involving extensible reinforcement in MSE bridge abutments or wing walls must comply with the requirements outlined in Section 25 (Mechanically Stabilized Earth Walls) of the Alberta Transportation and Economic Corridors Standard Specifications for Bridge Construction.

TRIAL PROJECTS

Bow River Bridge on Stoney Trail (Hwy 201 WBL)

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