

Product Evaluation

RE: Review of Redi-Rock Wall System

PRODUCT

Redi-Rock Wall System is the leading big block retaining wall system in America. Redi-Rock Wall System manufactured and distributed by Westcon Precast Inc. located in St Albert, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Redi-Rock Wall System utilize blocks weighing over 1 ton each. The massive scale of this system allows walls to be built much higher than other wall systems, over 4 meters without using geogrid or tie-backs. Product website is: <http://www.redi-rock.com/>

DESCRIPTION:

Redi-Rock retaining walls are recyclable and relocatable. Blocks are moulded from standard concrete and are available in a range of colours and finishes which replicate natural stone. Redi-Rock Wall System engineered interlocking blocks are versatile enough to achieve height without compromising on strength. Redi-Rock heavyweight concrete blocks are dry-laid with no mortar. The Redi-Rock blocks can be manufactured on or off site and laid in any weather. Cable, rods or other reinforcement can be added for greater strength.

POTENTIAL USAGE:

Redi-Rock Wall System strength and versatility allows for creative design in applications such as shoreline protection, foundation support for construction projects, bridge abutments, highway retaining walls and erosion control.

STANDARDS:

CSA-A23.4 Precast Concrete Materials and Construction.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this product.

APPLICATION STANDARDS:

For bridge applications this product must meet the requirements as specified in the *Specification for Bridge Construction, Section 25, Mechanically Stabilized Earth Walls* - <http://www.transportation.alberta.ca/content/docType246/Production/10bcs25.pdf>. For roadway applications this product has to be in compliance to the department's *Roadside Design Guide*. <http://www.transportation.alberta.ca/3451.htm>

Note: Product to be used outside of clear-zone only and any application of Redi-Rock Wall System should be designed by Professional Engineer (In good standing with APEGA).

RECOMMENDATIONS:

Redi-Rock Wall System be listed as a Proven Product under Alberta Transportation Products List, Earth Retaining Systems – Modular Gravity Wall – Proprietary, based on the information provided.

TRIAL PROJECTS

Whitemud Drive, Edmonton
Beddington Trail, Calgary
Emerald Hills, Strathcona County

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow