

Product ID: 8248-1-6 Initiation Date: June 2013

Revision Date: November 5, 2019

Product Evaluation

RE: Review of DELTAX Rockfall Protection Mesh

PRODUCT

The DELTAX Rockfall Protection Mesh is manufactured by Geobrugg North America located in Algodones, New Mexico and distributed by Western Geohazard Solutions Incorporated located in Kelowna, British Columbia.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

DELTAX Rockfall Protection Mesh can be rapidly installed, no special installation equipment is required. DELTAX Rockfall Protection Mesh can be simply cleared out following a rockfall event. DELTAX is environmentally friendly, the lower amount of steel needed for DELTAX compared to hexagonal mesh leads automatically to a much lower CO₂ footprint. Product web link: http://www.geobrugg.com/contento/Portals/35/media/Download-Newsletter/Prospekt DELTAX en screen.pdf

DESCRIPTION:

The DELTAX Rockfall Protection Mesh is manufactured from a 2mm high tensile steel wire with a tensile strength of 1,770 N/mm² which is used as a rockfall drape. The rockfall drape is fastened to a support rope at the top and hung over the rock slope. Rockfall events take place in a controlled manner between the mesh and the rock slope and are directed between the mesh and the rock slope into a catchment zone at the base.

POTENTIAL USAGE:

The DELTAX Rockfall Protection Mesh is rapidly and simply installed in rolls of 3.5 X 30 m. The low weight of only 68 kg per 105 sq. m. roll enables the handling of the rolls by hand with only a few workers. Geobrugg ultra coating, the 3rd generation of zinc/aluminum coating shows in the salt spray tests a three times longer lifespan than alu-zinc coating.

STANDARDS:

European Organisation for Technical Approvals (ETAG) 027 guidelines

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has used this product in multiple trial sites.

APPLICATION STANDARDS:

Alberta Transportation do not have a standard for rock fall and avalanche protection. Rockfall barrier system should be designed by a qualified engineer and should be designed for the specific rockfall hazard and site conditions.

RECOMMENDATIONS:

DELTAX Rockfall Protection Mesh be listed as a Proven Product under Alberta Transportation Product List, Rockfall – Mesh Draped – Proprietary, based on the information provided.

TRIAL PROJECTS

40:12 Mt. Baldy Rock Cut Site KM37.077 to KM37.342 (NBL), 40:12 Galatea Creek Rock Cut Site KM17.285 to KM17.809 (NBL)

3:02 Crowsnest Lake Rock Cut Site KM3.136 to 3.865 (EBL)

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