

## **Product Evaluation**

### **RE: Review of GBE Rockfall Barrier System**

#### **PRODUCT**

The GBE Rockfall Barrier System 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:**

GBE Rockfall Barrier System offer protection against impact energies from 100 to 8,000 KJ. All GBE rockfall protection barriers have passed the approval test in accordance with the European Organisation for Technical Approvals (ETAG) 027 guidelines laid down by the European Organization for Technical approvals. GBE barriers have a considerable smaller carbon footprint than concrete galleries or steel construction. Product web link:

<http://www.geobrugg.com/contento/en-us/tabid/2775/Default.aspx>

##### **DESCRIPTION:**

The GBE Rockfall protection barriers and catch fences are supplied for impact energies of 100 kJ, 500 kJ, 1000 kJ, 2000 kJ, 3000 kJ, 5000 kJ and 8000 kJ and have been successfully tested and approved under vertical fall conditions according to the guideline ETAG 27. GBE Rockfall Barrier System steel mesh is made of high tensile steel wire and a nominal tensile strength of 1,770 N/mm<sup>2</sup>.

##### **POTENTIAL USAGE:**

The GBE Rockfall Barrier System is supplied with all steel components (posts, ground plates and U-Brakes) hot-dip galvanized, the Tecco mesh, the spider net as well as the ropes with Geobrugg supercoating or Geobrugg ultracoating, the 3<sup>rd</sup> generation of zinc/aluminum coating.

##### **STANDARDS:**

European Organisation for Technical Approvals (ETAG) 027 guidelines

#### **TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation and Economic Corridors has no experience with this product.

##### **APPLICATION STANDARDS:**

Alberta Transportation and Economic Corridors does not have a standard for rock fall and avalanche protection. Rockfall Barrier systems should be designed a qualified engineer and should be designed for the specific rockfall hazard and site conditions.

##### **RECOMMENDATIONS:**

GBE Rockfall Barrier System be listed as a Potential Product under Alberta Transportation Product List, Rockfall – Mesh barriers – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

**TRIAL PROJECTS**

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