

## **Product Evaluation**

### **RE: Review of Spider Rock Protection System**

#### **PRODUCT**

The Spider Rock Protection System is manufactured by Geobrugg North America located in Algodones, New Mexico and distributed by Western Geohazard Solutions Incorporated located in Kelowna, British Columbia. Product web link: <https://www.geobrugg.com/>

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

Spider Rock Protection System high tensile strength steel wire rope net adapts to rock surfaces and also expands in the direction of the load. Spider system secures loose rock even on irregular surfaces and overhangs. Spiders integrated system components work evenly across the entire protected area.

##### **DESCRIPTION:**

The Spider Rock Protection Systems stranded 4mm steel wire with a high tensile strength of 1770 N/mm<sup>2</sup>. The Spider Rock Protection System spiral rope nets are secured over rock nails with spike plates or rock anchors against the rock surface. Spider system is comprised of: Spider spiral rope; nails and anchors; Spider system spike plate; border ropes and temporary ropes.

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

The Spider Rock Protection System is rapidly and simply installed in rolls of 20m X 3.5m. In addition, because of the longer net panels there are fewer horizontal connections. Geobrugg ultra coating, the 3<sup>rd</sup> generation of zinc/aluminum coating improves the corrosion resistance of the wire.

##### **STANDARDS:**

Test results are available from the vendor regarding wire mesh strength and oxidation resistance.

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has no experience with this product.

##### **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:**

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

#### **TRIAL PROJECTS**

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