

Product Evaluation

RE: Review of RISPAN Rockfall Drapes

PRODUCT INFORMATION	
Product Name: RISPAN Rockfall Drapes	Manufacturer: Risp Srl, Vascon di Carbonera (TV), Italy
Website: https://risrockfallprotection.com/	Supplier: Engineered Asset Upkeep Ltd., Clearwater, BC

VENDOR CLAIMS AND INFORMATION

CLAIMS

RISPAN Rockfall Drapes are square mesh steel wire rope panels with or without border ropes for protection against rockfall instabilities. Flexible structural facing of slopes with wire rope panels can be installed with minimal resources, offering important savings in terms of construction times. Furthermore, wire rope panels provide efficient and reliable protection because different areas of the mesh cooperate together: this is due to the effective contribution of the steel wire knot system used to fix mesh rope crossing-points.

DESCRIPTION

Steel wire rope panels combine high steel strength (the panel mesh is made by 1960 N/mm² grade steel ropes) together with rope adaptability to the various slope topography profile with its irregularities. Ropes' crossing points are fastened with a strong knot made using galvanized steel wires (ft = 900-1000 N/mm² - Ø 3,5 mm - Zn95/Al5 coating). The knot secures overlapping mesh rope points, avoiding slipping of ropes for high performances of the panel. The crossing connection way allows the cooperation between different parts of the mesh panel, thus contribute to a better load distribution on the whole system.

POTENTIAL USAGE

Reinforcement of the slope face, prevention of rock debris from detaching, retaining smaller debris within the netting.

STANDARDS

- RISPAN panels are tested as per EAD 230005-00-0106 directions. Taking into account of tests' results, the European Technical Assessment (ETA 19/0313) was issued and, on the base of this, RISPAN obtained the Certificate of Constancy of Performance of the construction product in accordance with the Regulation (UE) n. 305/2011 of the European Parliament and of the Council.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

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

APPLICABLE STANDARDS

Alberta Transportation and Economic Corridors does not have a standard for debris flow, rock fall and avalanche protection. The mentioned caveats should be taken into consideration while designing.

RECOMMENDATIONS

RISPAN Rockfall Drapes be listed as a Potential Product under Alberta Transportation and Economic Corridors Products List, Rock/Debris Retaining System – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat:

- RISPAN Rockfall Drapes System should be designed by a qualified professional engineer registered with APEGA and should be designed for the specific rockfall hazard and site conditions.
- It may trap hooves of animals walking on top of it. So, the project specific wildlife passage study may require and not to install where animals are found to be walking.
- Hanging drape at the lower end of slope / cliff may swing during high wind. So, the lower end may require to be fixed to the ground by some anchors.

TRIAL PROJECTS

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cc New Products Evaluation Group – Roger Skirrow,
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