

Product Evaluation

RE: Review of 3STUTOR Systems

PRODUCT INFORMATION

Product Name: 3STUTOR Systems

Manufacturer: 3S Geotecnia y Tecnología, S.L, Santander, Cantabria, Spain

Website: www.3sgeotech.com

Supplier: Avalanche and Rockfall Mitigation Systems (ARMS) Ltd., Clearwater, BC

VENDOR CLAIMS AND INFORMATION

CLAIMS

Tutor mesh offers all the advantages of conventional pinned mesh systems for rockfall mitigation and slope stabilization. Its unique benefits include excellent punching performance and a unitary support technique for design.

DESCRIPTION

The system consists of high tensile strength wire netting (mono twist chainlink type), Eagle or Delta plates, soil pins (nails) and/or rock anchors, and high tensile strength wire ropes. All components are made of galvanized steel. The system is used for slope stabilization by installing pinned mesh and is a specialty of rockfall mitigation/slope stabilization companies. The manufacturer provides detailed drawings and an installation manual to specialty contractors.

POTENTIAL USAGE

The system is most suitable for unstable soil slopes or rocky slopes with scattered/weathered rock. Engineers should ensure that the system adapts to the terrain and is well-connected to the slope surface to provide maximum membrane reinforcement.

STANDARDS

The Tutor pinned mesh system has passed EAD tests for material and achieved ETA certification of constancy of performance.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Transportation and Economic Corridors does not have experience with this product.

APPLICABLE STANDARDS

Alberta Transportation and Economic Corridors does not have a standard for rock fall protection System

RECOMMENDATIONS

3STUTOR Systems be listed as a Potential Product under Transportation and Economic Corridors Products List, Slope Stabilization – Tensioned Anchored Wire Mesh System – Proprietary and Rockfall - Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveats:

1. 3STUTOR Systems shall be designed by a qualified professional engineer registered with APEGA and shall be designed for the specific Slope Stability Issue site/rockfall hazard site conditions.
2. 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.

TRIAL PROJECTS

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