

STEELGRID HR30 MESH

MANIC2 (BAIE COMEAU) HYDRO DAM, QUEBEC

FALLING ROCK PROTECTION

Product: Steelgrid HR30 Mesh + HR-Link Connectors



During installation



Mesh runs hanging during installation

Problem

A series of minor failures and following geomechanical analysis highlighted the need for protection of the hydro-electric power station buildings and associated roadways around the base of the Baie Comeau dam.

Solution

Considering the various site-specific issues, the project designer selected Maccaferri Steelgrid HR30 mesh to mitigate the rockfall risk due to its high strength and high mechanical durability. The Class A Zn/Al galvanisation was important to achieve the required design life for the project. Additionally, the geocomposite nature of Steelgrid HR30 was deemed to mean that the mesh could be installed more efficiently than a conventional mesh+cables installation.

Steelgrid HR30 was installed on the 120m long rock slope, with runs of mesh covering the slope for heights of up to 40m.

HR-Link connectors were used for the selvedge-selvedge (beta) connection - at nominal 160mm spacings in accordance with the manufacturer's instructions.



Slope topography overhung by mesh during installation

Client:

Hydro Quebec

Main contractor:

Local contractor

Products used:

5000 m² Steelgrid HR30 + HR-Links

Date of construction

September/October 2012



Mesh conforming to slope topography after installation



Steelgrid HR30 mesh after installation



Steelgrid HR30 mesh with ice accumulation



Steelgrid HR30 mesh after installation



Steelgrid HR30 mesh with ice accumulation

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