



Tunnel Nordnes (NO) Water & Frost Protection

Country	Norway
Type	Road Tunnel
Client	Statens Vegvesen Region Nord (Norwegian Road Adm.)
Main Contractor	Marti AS
Execution of the work	Renesco A.S.
Construction Period	2017

Project Description

The Nordnes Road Tunnel with a total length of 5.8km on the Motorway E6 in Nordnes-Skardalen (Norway) is being built as rockfall and avalanches protection project.

The main parts of the project consist of:

- 5'810m long (T9.5, 71m²) double lane road tunnel
- 6'590m of road
- 100m long bridge

Work Description

Underground excavation, rock support and grouting work

- Excavation method: drill & blast
- Standard rock support: shotcrete and systematic rock bolts
- Additional rock support: spilling bolts and reinforced shotcrete arches

Scope of Service

Water and frost protection work

- 70'000 m² PE-foam & shotcrete lining
- Drilling service for the rock bolts
- Rock bolts setting
- Fixation of reinforcement

Sheet waterproofing of the portals

- PVC-P, 2mm acc. to Norwegian Handbook 163



1. Portal
2. Anchor setting
3. PE-foam application