



Tunnel Solbakk (NO) Water & Frost Protection

Country
Туре
Client
Main Contractor
Execution of the work
Construction Period

Norway Road Tunnel Statens Vegvesen Region Nord (Norwegian Road Adm.) Marti ÍAV Solbakk DA, Marti Contractors, Marti AS Renesco a.s. 2017/2018

Project Description

The E02 Solbakk project is the northern construction lot of the Ryfast project between Stavanger and Tau, which compromises a two-lane, twin-tube road tunnel including roadwork and sea filling. The main parts of the project consist of:

- 2 x 7'980m long (68m²) double lane road tunnel
- 16 cross connections (17-42m²)
- 2 caverns (up to 308m²)
- Technical niches, pump stations, sedimentationbassin

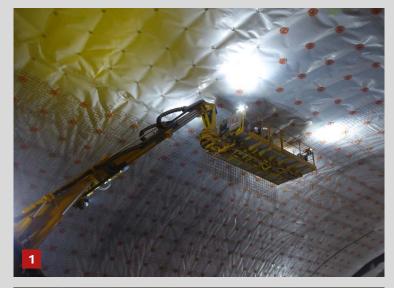
Underground excavation, rock support and grouting work:

- Excavation method: drill and blast
- Excavated length: 16'570m
- Grouting method: systematic probe drilling, Cementous pre-grouting, 4'300t of grout media
- Rock support: shotcrete, systematic rock bolts and spilling bolts, reinforced shotcrete arches
- Pre-casted concrete wall element lining
- Sea-fillings with blasted rock
- Roadworks: 17.4km
- Fresh water and drainage system
- Installation of cables pipes and cable bridges
- 2 x 250m long portals (cut & cover)
- Electrical work: Earthing system

Scope of Service

Water and frost protection work:

- LLDPE sheet waterproofing & shotcrete lining
- Drilling service for the rock bolts
- Rock bolts setting
- Fixation of reinforcement
- Sheet waterproofing of the portals







- 1. Fjellhaller/ cavern, 44 m circumference, water & frost protection
- 2. Installation of the water & frost protection, running tunnel
- 3. Bolting, stiffening and membrane installation