RV. 13 RYFAST - SOLBAKKTUNNEL
TAU (NO)

**CLIENT**
Statens Vegvesen Region Vest  
(Norwegian Road Administration)

**CONSTRUCTION PERIOD**
06.2013 – 12.2018

**CONTRACT SUM**
CHF 206 Mio. (NOK 1’303 Mio.)

**JOINT VENTURE COMPANY**
Marti ÍAV Solbakk DA

**JOINT VENTURE PARTNERS**
Marti Tunnel AG, CH-3302 Moosseedorf  
Marti AS, NO-0278 Oslo  
TuCon a.s., SK-010 04 Žilina-Bánová  
ÍAV hf, IS-110 Reykjavík

**LEAD COMPANY AND TECHNICAL LEAD**
Marti Tunnel AG, CH-3302 Moosseedorf

**COMMERCIAL LEAD**
Marti AS, NO-0278 Oslo
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PROJECT DESCRIPTION
The E02 Solbakk project is the northern construction lot of the Ryfast project between Stavanger and Tau which comprises a two lane twin-tube road tunnel including roadwork and sea-filling. The main parts of the project consist of:
- 2 x 7'980 m long (68 m²) double lane road tunnel
- 16 cross connections (17 - 41 m²)
- 2 caverns (up to 308 m²)
- Technical niches, pump stations, sedimentation bassin

WORK DESCRIPTION
Underground excavation, rock support and grouting work
- Excavation method: drill & blast
- Excavated length and volume: 16'570 m, 1'280'000 m³ mucked by conveyor belt
- Grouting method: systematic probe drilling, cementous pre-grouting
- Grouting quantity: 190 rounds, 4'300 t of grouting media
- Standard rock support: shotcrete (64'600 m³) and systematic rock bolts (121'600 pcs)
- Additional rock support: spiling bolts and reinforced shotcrete arches

Underground water and frost protection work
- Reinforced membrane & shotcrete lining: 140’000 m²
- Precasted concrete wall elements lining: 2'200 m²

Other UG and surface work
- Sea-fillings with blasted rock: approx. 2 Mio. m³
- Roadworks: 17.4 km
- Fresh water and drainage system
- Installation of cables pipes and cable bridges

Concrete work
- Technical buildings, pump stations and basins
- Two 250m long portals (Cut&cover)

Electrical work
- Earthing system

GEOLOGY
- Gneiss