

Norrströmstunnel (S) Water & Frost Protection

Country
Туре
Client
Main Contractor
Designer
Execution of the work
Construction Period

Sweden Railway Tunnel Trafikverke (Swedish Transport Administration) NCC Sverige AB WSP Renesco a.s. 2012-2013

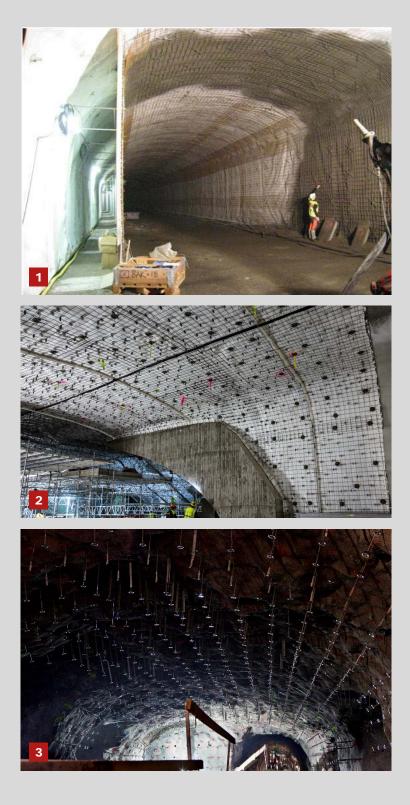
Project Description

Stockholm City Line is a 6km long commuter train tunnel running between Tomteboda and Stockholm South, with two new stations at Odenplan and T-Centralen.

Scope of Service

The construction includes a 1.5mm waterproofing sheet membrane, Low-Density-Polyethylene (LDPE) including a one-side surface roughness, two color, behind a mesh reinforced shotcrete (90mm) suspended from the anchor bolts, building a tent inside the shotcrete supported rockstructure. The requirements for waterproofing and construction were according to BV Tunnel (Swedish standard).

- Specialised drilling service
- Length of holes ≈600 mm
- Installation of anchor bolts by glue
- Installation of nuts and plates
- Installation of sheet membrane including all detailing
- Installation of reinforcement



- 1. Shotcrete application direct onto the membrane
- 2. Waterproofing system, detailing
- 3. Galvanized anchor bolts