



SIKA AT WORK

STOCKHOLM CITY LINE - NORRSTRÖMSTUNNEL, SWEDEN

WATERPROOFING WITH Sikaplan®

BUILDING TRUST



CITY LINE STOCKHOLM - SWEDEN



PROJECT DESCRIPTION

Stockholm City Line is a 6 km long commuter train tunnel running between Tomtebodavägen and Stockholm South, with two new stations at Odenplan and T-Centralen. When Stockholm City Line is completed in 2017, the track capacity in Stockholm will be doubled.

Delays and congestion in rail traffic are the result of the fact that there are not enough rail tracks in Stockholm. At present, all rail traffic – commuter trains, regional trains, long-distance services and goods trains – are operated only on two tracks.

Stockholm City Line is being built by the Swedish Transport Administration in close co-operation with the City of Stockholm, Stockholm County Council and Stockholm Transport, SL. The total cost is estimated at SEK 16.8 billion (2007-01 prices).

Stockholm City Line consists of 8 different contracts with different contractors; Bilfinger Berger, Strabag, NCC, Zublin/Pihl, Zublin and Pihl. NCC's contract is Norrströmstunneln which extends between Riddarholmen and Gamla Brogatan, i.e. under and past the Stockholm T-Central. A new station, Station City, will be constructed under the existing Stockholm T-Central.

PROJECT REQUIREMENTS

Sika is supplying a waterproofing system for public spaces in Station City (Contract; Norrströmstunneln). The contractor is NCC Sverige AB with Renesco a.s. as a sub-contractor and installer of the membrane waterproofing system.

The requirements for waterproofing and construction were according to BV Tunnel. The construction (inner tunnel) consists of membrane behind mesh reinforced shotcrete (90 mm) suspended in the anchor bolts.

Sikas Sikaplan® WT 2260-15HL (PEDLLD) fulfilled all requirements on durability, life expectancy, fire and mechanical resistance.

SIKA SOLUTIONS

Sika was, in co-operation with Renesco a.s. involved in the project in an early stage discussing the waterproofing construction. Based on the installation experiences of Renesco a.s. the open discussions with NCC and the owner, the Swedish Transport Administration, a solution was agreed upon and the first installation was made in the beginning of 2012. The total volume of Sikaplan® WT 2260-15HL is 12.000m² which will be finally installed during 2013.

SIKA PRODUCTS

- Sikaplan® WT 2260-15HL
- SikaSwell® S-2
- Sika®Waterbar WT AF
- Sigunit
- Sika® MonoTop®-910N
- SikaQuick®-506 FG
- Flexodrain system
- SikaBond®-520

PROJECT PARTICIPANTS

OWNER

The Swedish Transport Administration

CONTRACTOR

NCC Sverige AB
(Norrströmstunneln AB)

SUB-CONTRACTOR

Resenco a.s.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.



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