

Railway Line Copenhagen-Ringsted

Project Owner:

Banedanmark

Client:

Hoffmann A/S

Quick Info:

Permanent sheetpile anchoring for a railway underpass by means of strand anchors

Technical Information:

System:	Permanent Strand Anchor, BBV 4 x Ø 0,6" St 1570/1770
Quantity:	58 pcs.
Length:	15,00 m
Test Load:	745 kN
Technique:	overburden drilling
Building Ground:	Clay/sand
Time Frame of Works:	April – June 2014

In the course of a large scale infrastructure program, the Danish railway network is currently being modernised. As part of this, the new railway line Copenhagen-Ringsted includes a segment through the district of "Valby" where a new railway underpass under the Retortvej is needed. Our job was to anchor the side walls of this underpass with ground anchors.

Besides the drilling and grouting of the permanent strand anchors according to EN 1537 we also delivered the anchor consoles according to project owner's specification (Images 1+2). Due to the minimum required drilling diameter, we decided to deliver and install each console in one pre-manufactured piece. All consoles underwent x-ray inspection and were handed over with our anchors without deficiencies in the end.

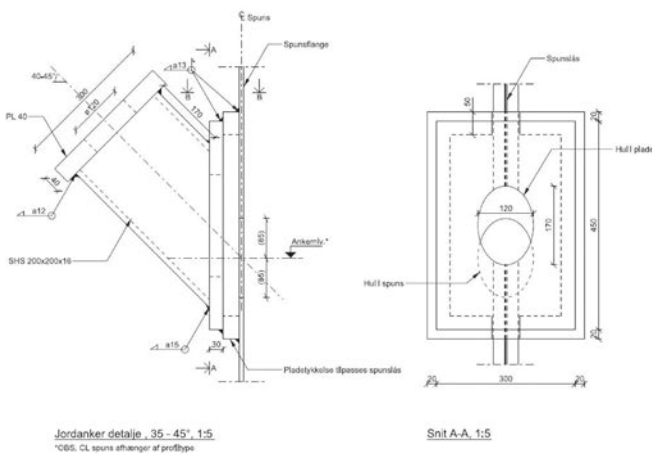


Image 1: Cross section and topview of anchor console design



Image 2: Pre-tensioned line anchors prior to installation of the steel caps.