Tender Designs of Major Infrastructure Highway Projects

Twin Bore Highway Tunnels of the Cross Israel Northern Highway, Sections 3 & 7

Israel

Project

Cross Israel Northern Highway, Twin Bore 3 – Lane Tunnels of Road Sections 3 & 7

Construction Cost

Total Cost: approx. € 80 m.

Project Schedule

Tender Design: 2012-2013
Construction: 2014 - 2019

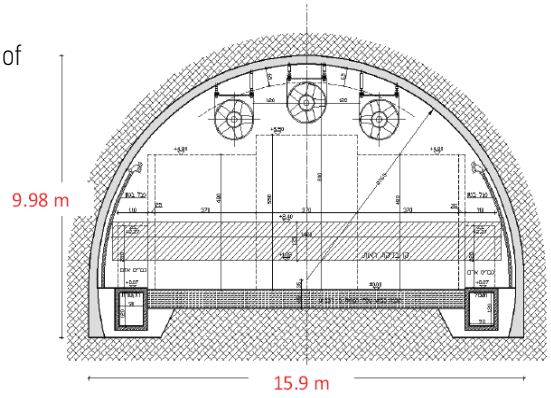
Project Description

Twin Bore 3-Lane Highway Tunnels
(Yokneam, Rekhasim & Ibtin)

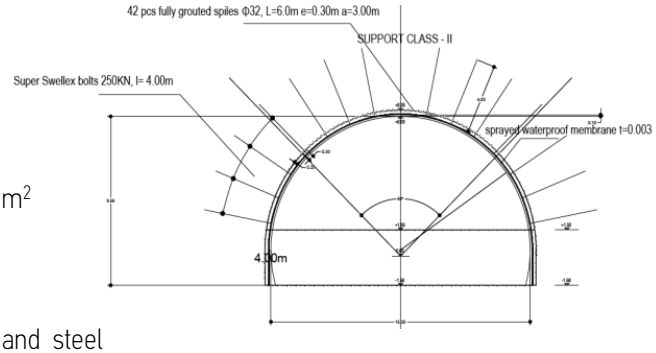
Mined sections total length:	9.200m
Excavation cross section:	130m^2 -190m^2
Effective cross section:	58m^2 (3 x 3.70m)

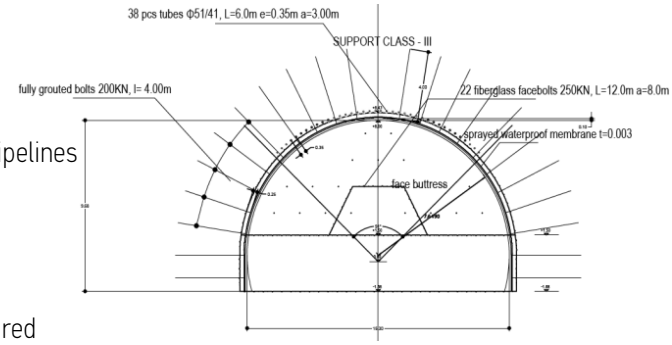
Pedestrian & vehicle cross passages cross section: 36m^2

Composite Shotcrete Lining C30/37
Temporary support: outer shotcrete
Permanent lining: sprayed waterproof membrane and steel reinforced inner shotcrete permanent lining



Typical tunnels cross section



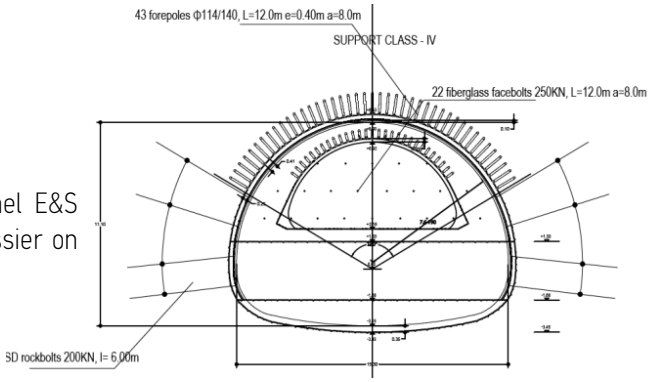


Excavation Method

NATM – Mechanical excavation
Due to strict vibration limits on the adjoining oil & gas pipelines D&B is not permitted

Geology

Limestones, chalk, dolomites, marls
Seismically active area (Carmel Fault), zones with shattered geomaterials
Karstic Features
Overburden heights: 3m – 100m



Excavation typical cross section

Our Services

- Appraisal of the tender Basic Solution
- Preparation of alternative and cost effective tunnel E&S cross sections as well as BoQ's for the tender dossier on behalf of AKTOR S.A. & SBI Group
- Tender design and preparation of the technical offer

Client

AKTOR S.A. (Greece)
SBI Group (Israel)