

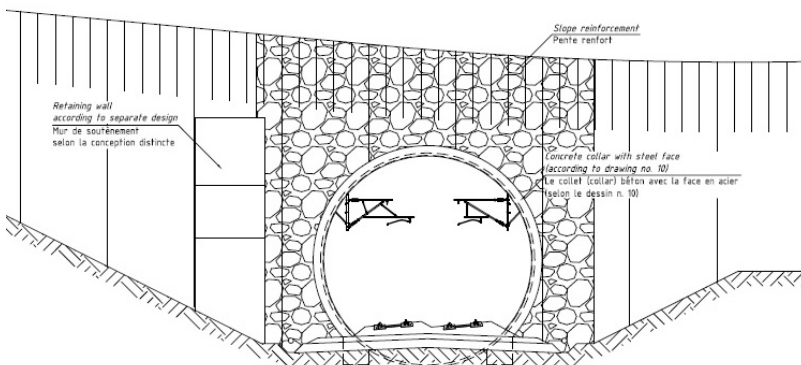


Atlantic Industries Limited

# PROJECT PROFILE



## 180 m Algerian rail tunnel completed by AIL Group Licensee



The AIL Group of Companies has licensees in key international markets around the world. ViaCon Sp. z o.o. Poland was recently involved in a significant twin-track rail tunnel project in Northern Algeria using Super•Cor with some unique features:

- Quadruple circumferential bolt connections
- 10 mm steel plate collars for the beveled ends
- Integrated overhead power line hangers

### Project at a glance:

**Project Name:** Algeria Railway Tunnel

**Investor:** People's Democratic Republic of Algeria represented by ANESRIF

**Design/Supervision:** ViaCon Sp. Z o.o. Poland (AIL Group Licensee)

**Product:** Super•Cor Round

**Application:** Twin Track Rail Tunnel

**Contractor:** Yapı Merkezi, Infrarail SPA

**Assembly:** Yapı Merkezi, ViaCon Sp. z o.o. Poland

**Dimensions:** Bottom length 180.08 m,  
Top length 138.62 m, Diameter 12.02 m





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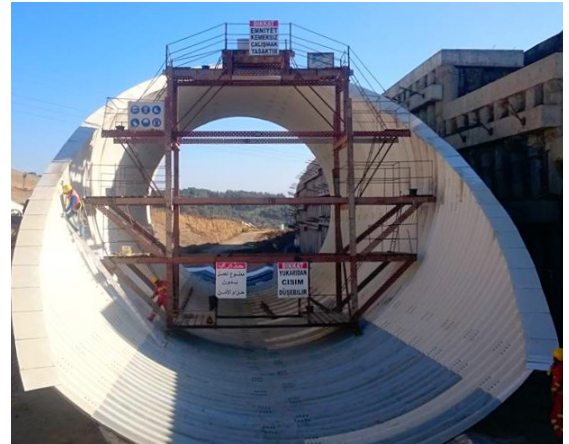
- Zinc coating, thickness conforming to EN ISO 1461 standard
- Interior polyurethane paint
- Exterior double watertight insulation

Prior to the Super•Cor installation, a reinforced concrete retaining wall structure was constructed to hold back the embankment on the high side. Once the foundation soils were fully prepared, the membrane was carefully laid out with protective matting for the active work areas.

Anchor bolts were incorporated into the steel collars to tie into the reinforced concrete collars.

The structure was designed for a live load of EN 1991 with a cover depth of 6.71 m under the road and 6 m in the remaining areas. Backfilling aggregate was compacted to 98% standard Proctor density. Seismic effect was taken into account with a horizontal acceleration ratio of  $A_h = 0,4$ . Design service life in this climate is expected to be 100 years.

ViaCon in Poland is a member of the ViaCon Group, established in Sweden and Norway in 1986 and made up of 30 companies based in: Austria, Bulgaria, The Czech Republic, Denmark, Estonia, Finland, Georgia, Hungary, Latvia, Lithuania, Norway, Poland, Romania, Russia, Slovakia, Sweden, Turkey and Ukraine.



**See all Project Profiles on [ail.ca](http://ail.ca)**

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