



Tunnel A26 Linzer Autobahn (AT) Sheet Waterproofing

Country	Austria
Type	Motorway Tunnel
Client	Asfinag (Austrian's highway financing stock corporation)
Main Contractor	ICM construction GmbH
Execution of the work	Renesco GmbH
Designer/ Engineering	ILF, KMP, Retter, ste.p, Pöyry
Construction Period	2021-2023

Project Description

The A26 Linzer Autobahn represents one of the most complex new construction projects, quite part from the traffic and technical challenges - location in the urban area of Linz, almost the entire route runs in tunnels or cut-and-cover and two large bridge structures.

The A26 extends from the A7 – node of Linz /Hummelhof to the Danube break-through where (on both sides of the Danube River, via interchanges) it connects to the B129 Eferdinger Strasse and the B127 Rohrbacher Strasse. The entire segment of the A26 has a length of 4.7km. Due to its location in the city, it is dominated by an arrangement of engineered structures. All in all, two bridge structures, underground tunnels, and a cut-and-cover tunnel are to be built. Project “Phase 1” consists in two lots: one for the construction of a 385-meter 4-lane cable-stayed bridge on the Danube River and one for the construction of north-bound and south-bound junction tunnels for a total length of 3.3km approximately. Other connected works include the construction of a tunnel operation center, electrical niches, cross passages, and other supporting buildings necessary for the supervision of the infrastructure, rock stabilization and implementation of safety measures.

The excavation is carried out cyclically using the NATM method. A special feature are the cross-sections of the branching areas, which have a very large span with excavated areas at the widest points in the south of approx. 300m² and in the north approx. 370m². Two-, three- and four-lane cross-sections are being executed, with a maximum lane width of 14.50m.

Scope of Service

Supply & installation of sheet waterproofing membranes, PVC-P according to OEBV (Austrian guideline), 500g/sqm polypropylene (PP) geotextile, as umbrella sealing/ drained tunnel structure.

- 60.000 m² PVC-P, 2.1 mm with a 500 g/sqm PP geotextile
- Anchor bolts with penetration devices
- PVC-P water barriers, 500mm, 6ribs



1. Junction area
2. Final Concrete Lining
3. Crown waterproofing