

Brenner Base Tunnel, Lot H41 (AT) Sheet Waterproofing

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| Country | Austria |
| Type | Transit, Railway |
| Client | BBT (Galleria di Base del Brennero - Brenner Basistunnel BBT SE) |
| Main Contractor | Implenia, WeBuild, CSC |
| Execution of the work | ATA-H41 (Renesco 50%, IAT 50%) |
| Designer | PG BBTN (Amberg Engineering, Lombardi, müller+hereth, Obermeyer, hbpm) |
| Construction Period | 2023-2028 |

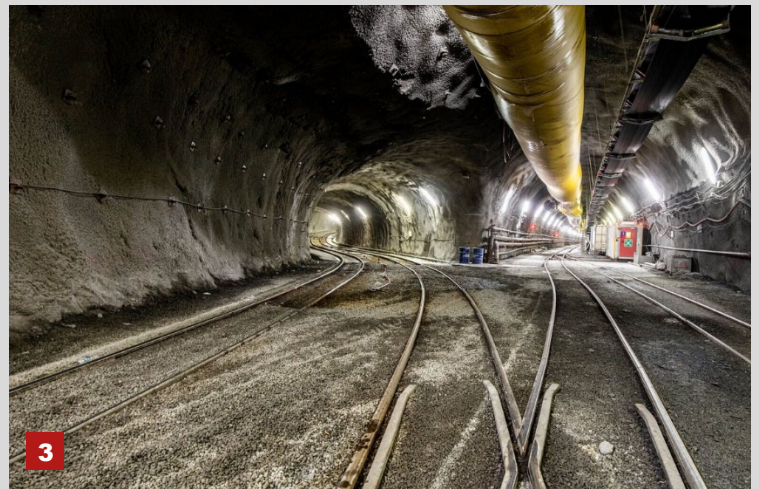
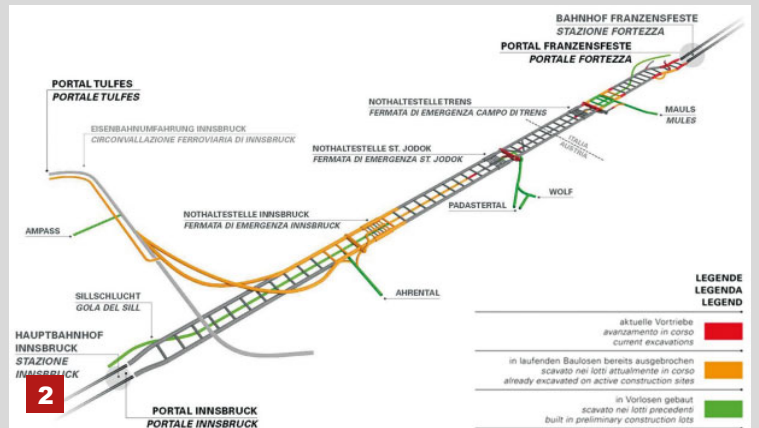
Project Description

Lot-H41 Sillschlucht-Pfons consists of the construction of the main tunnels in direction north to Innsbruck and direction south to Pfons, starting from the access-tunnel Ahrental. About 5.7km are excavated with drill and blast method and 16.4km as TBM-drive. Additionally, the inner lining has to be built for the main tunnels as well as for the Innsbruck emergency stop and the exploratory tunnel. Also 38 cross-passages with a total length of 2.3km are constructed.

Scope of Service

Supply and install of the waterproofing system according to the OEBV guideline (Austrian standard) and the BBT project specification with a design lifetime expectation of >100 years at high permanent temperatures.

- Sealing of the tunnels, caverns and cross-passages
- Around 1 Mio. sqm of surface to be sealed
- Umbrella seal (270°, crown and sidewall), drained
- Sheet waterproofing, 2.1mm PVC-P, with signal layer
- Protection geotextile, 900g/sqm polypropylene (PP)
- Termination tapes/strips, glued with epoxy resin
- Water barriers, water stops and compression seals/ profiles
- Drainage system including drainage profiles
- Injection hose system



1. Job-site impression
2. Project overview
3. NATM tunnel