



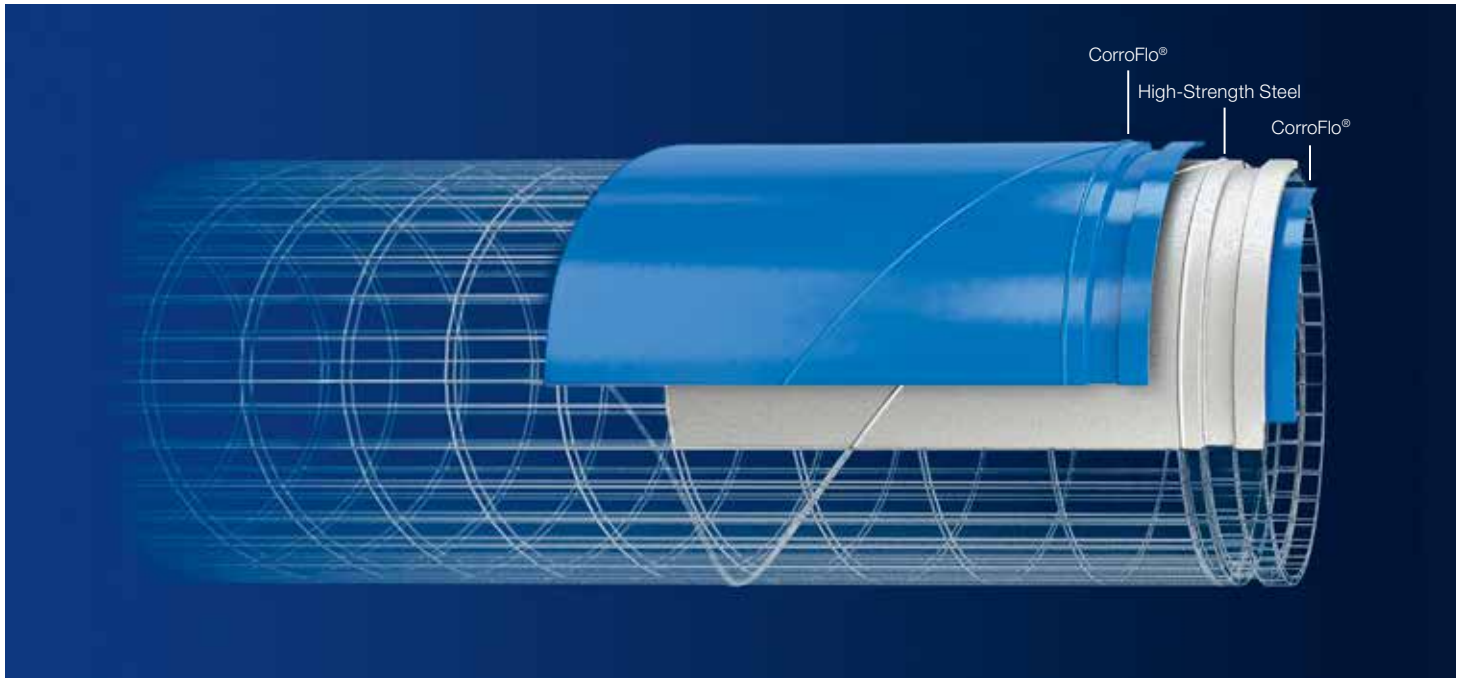
## Piping system for fire protection

### Reference project: The Porta Claudia tunnel, Scharnitz

#### **Tunnel in Scharnitz**

The Porta Claudia is a former fortification at the Scharnitz Pass in the Isar Valley near Scharnitz, close to the Austrian border with Germany.

In 2016, a bypass road project was started. The project includes a 957 m. long tunnel called "Porta Claudia" in which a fire protection system was required.



**Issues**

Due to the location of the tunnel close to the Isar river, which is a water protected area as it is the main source for drinking water to the city, it was from an environmental perspective necessary to choose a reliable pipe system without risk of leakage due to corrosion.

The fire-fighting water supply pipe had to fulfil the requirements as fully insulated permanently filled pipe in combination with suitable hydrants.

**Solution**

Obrist from South Tyrol, the contractor and installer of the fire-extinguishing system, decided in favour of the Alvenius pipe system and hydrants in the spring of 2018. The fact that the CorroFlo® coated pipe system and hydrants would meet the requirement of a long-term reliable system was important. The handiness and quick installation thanks to the lightweight pipes and the quick couplings were also a major deciding factor.

**Customer Benefits**

Thanks to the bendability in the couplings, the prefabricated fully insulated pipes could easily be laid by hand in a very short time. This also made it possible to install the pipes without any moldings into the supply ducts. For this no heavy tools and machines had to be used and the extremely fast quick coupling system enabled the installation in just a few days. The insulated pipes thanks to the coating will also ensure a long life of the system which means a safe environment

**Facts**

- 672 m. Alvenius Flowmax® pipes in DN150 in 3 and 6 m. lengths
- Pressure class: 40 bar
- CorroFlo® coated pipes, fittings and couplings



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