

 **Job Report**



Rehabilitation of a DN 200/DN 300 water pipe in Split

Client:

Vodovod i kanalizacija d.o.o. Split

Year of Construction:

2020

Type of Construction Measure:

Rehabilitation of a water pipeline that had been shut down for more than 10 years

Our Services:

- Delivery of the flexible Primus Line® system DN 200 – low pressure PN 18
- Delivery of 4 connectors DN 200 DIN – low pressure PN 10

Construction company:

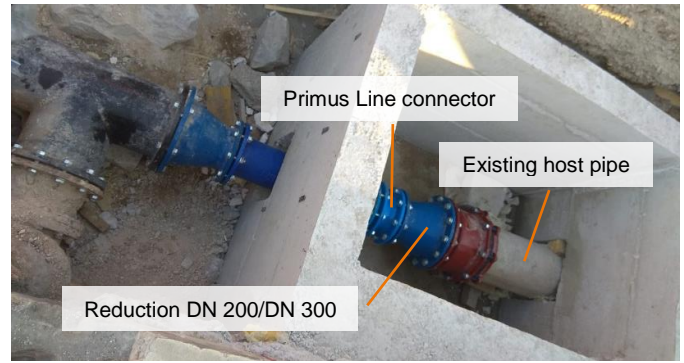
Anafora d.o.o./Goran i Zoran d.o.o.

Situation:

The water supply and sewerage company from Split (Vodovod i kanalizacija d.o.o. Split) was looking for a way to renovate an old water pipe that had been shut down for more than ten years. The old pipe made of asbestos cement is to be used as an additional supply line for the two hospitals Firule and Križine to ensure a reliable water supply at all times.

The pipeline is located nearby the pedestrian zone on a very busy road with the most traffic load in Split. Due to the condition of the old asbestos cement host pipe as well as the traffic situation, a renovation by open trench was not feasible. A trenchless method was therefore chosen to rehabilitate the line running between two intersections. For the first time, Primus Line® was installed in Split.

After the public tender, the company Anafora d.o.o. – an experienced member of the Primus Line family – was awarded to install the system in cooperation with its partner company Goran i Zoran d.o.o.



Technical Details:

Material of Host Pipe:	Asbestos cement
Transported Fluid:	Potable water
Diameter of Host Pipe:	DN 200/DN 300
Operating Pressure:	8 bar
Primus Line® System:	DN 200 PN 18
Total Length:	859 m
Number of Sections:	2 sections of 488 m and 371 m

Rehabilitation System:

For congested cities with intense traffic, Primus Line® – a flexible lining solution for the trenchless rehabilitation of pressurized pipelines – is particularly suitable. The system consists of a flexible high-pressure liner with patented end fittings and provides the client numerous advantages for installations in urban areas. The limited installation footprint with small construction pits and a minimal set of installation equipment restrict the flow of traffic only slightly. The liner can be installed directly from the transport reel resulting in short installation times with a speed of up to 400m per hour. After only a short time, the streets are free for traffic again.

Project Description:

After a hydraulic calculation, it was decided that the entire section could be renovated with the Primus Liner DN 200. In total, 859 m of Primus Line DN 200 low pressure were installed in the existing asbestos cement host pipe of the size of DN 300 (L = 197 m) and DN 200 (L = 662 m). Since the liner is installed with an annular space and therefore accommodates the intended operating pressure of 8 bar completely independently of the host pipe, the system could be installed without making big changes to the existing line. No additional pits or excavations were necessary. Five existing pits could even be abandoned. To protect the liner during the pull-through, the gap in the manholes were bridged with PVC pipes. As a result, Primus Line® could be installed in only two sections of 488 m and 371 m. The renovated line is equipped with automatically controllable valves to optimally adapt the water supply to the needs of the existing network, including the two hospitals.



© Rädlinger primus line GmbH, 07/2020. This document cannot be used to derive any legally binding assurance or warranty for certain properties of the product or the suitability of the product for a specific application.