

Safe Water Supply and Discharge Thanks to HOBAS® Protective Pipes

Protective pipes from CC-GRP are often employed to protect potable water pipes and sewers running beneath busy roads, but most often crossing a tramway or railway. Here they hold a dual function: On the one hand they protect the carrier pipe from static and dynamic loads and on the other they facilitate rehabilitating or replacing old lines by means of trenchless installation.

Project - Miskolc, HU

Year of construction

2008

Diameter

DN 200 - 800

Pressure class

PN 1

Stiffness class

SN 10000

Installation method

Open trench

Client

Metrószér Kft.

Advantages

**Corrosion resistance,
excellent load capacity,
long service life**

Project - Ostrava, CZ

Year of construction

2011

Diameter

DN 1000

Pressure class

PN 1

Stiffness class

SN 10000

Installation method

Relining

Client

SmVaK Ostrava a.s.

Advantages

**Corrosion resistance,
complete tight system,
excellent load capacity,
long service life**

Hungary

In Miskolc, a project to develop the urban infrastructure has been implemented with the financial support of the European Union. This involved among other things the renewal and establishment of tramlines. Due to the upgrade and extension of public transport, the existing ductile iron potable water pipes below the surface had reached their structural limits. The client therefore decided to protect them with a HOBAS Casing. Reasons for his choice were above all the products' excellent properties: corrosion resistance, long-term tightness, long service life and – especially important for this project – a high load bearing capacity. Calculations showed that HOBAS Pipes SN 10000 would provide enough stiffness to reliably protect the potable water pipe running beneath the new tramlines and roads for decades.

Czech Republic

Also the Czech Republic has been opting for HOBAS Pipes to protect water supply lines. The existing potable water pipe in the Region Ostrava, for instance, runs beneath highly frequented railways and could no longer hold out against the dynamic loads. The client set about looking for a suitable pipe material with high static and dynamic load capacity and which is insensitive to aggressive soils and other negative influences from the former mining area Ostravsko-Karvinská.

HOBAS GRP Pipes are being installed in the Region Ostrava for more than 20 years. Thanks to their corrosion resistance and relatively thin wall thickness but high stiffness they presented an ideal solution also in this project.

USA

Sometimes, HOBAS Casings do more than protect the carrier pipe inside them. In Charlotte, North Carolina, for instance, they were



HOBAS Pipes SN 10000 protecting a potable water pipe in Hungary



installed to protect a raw sewage main and a petroleum pipeline. The casings were necessary at crossings of an existing pipeline which transports jet aviation fuel directly to Charlotte-Douglas International Airport. HOBAS GRP Pipes were chosen as a casing pipe to protect the petroleum line from interactions with the existing metallic pipeline. Jacking and hand-mining beneath the petroleum pipeline went smoothly. The City of Charlotte was provided with a nonconductive casing pipe material that does not harm the petroleum pipeline through stray current. The GRP casing is a structural solution which will provide a lifetime of corrosion free service.

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HOBAS Casings protecting both a raw sewage main and a petroleum pipeline in North Carolina, USA.



A potable water pipe in the Czech Republic, protected by HOBAS Relining Pipes