

HOBAS® Case Study

March 2008

HOBAS® for the Future Capital of Culture

With approximately 170,000 inhabitants Pécs is the 5th largest city of Hungary. Located in the south-west of the country and with numerous universities and cultural heritages it will be European Capital of Culture in 2010. The early Christian Necropolis of the former Roman provincial town Sopianae dates back to the 4th century and is enlisted as UNESCO World Heritage since 2000.

In 1970 Pécs established a concrete sewer main running through the water meadow Tüskésrét. A reconstruction plan was set up in 2000 to replace the old 2.7 km collector which had corroded considerably over the years. The reason for this was the high rate of iron sulfate in the groundwater due to the disposal of waste from a brown coal fired thermal power plant. Ash and slug had been deponated in the area since 1958 burdening the environment considerably and rendering the groundwater into an aggressive medium which gradually destroyed the old line.



This was the main reason why the Pécs Water Company Ltd. chose the highly corrosion resistant HOBAS CC-GRP SewerLine System. It was furthermore important to find a material that would withstand the heavy truck traffic loads from the industrial road under which the line was installed.

In 2001 and 2006 about 1.5 km of HOBAS SewerLine Pipe were laid in the prior reconstruction stages on the upper track of the main collector. Fortunately the autumn was dry and the groundwater level was far below the level of around 3 m that was assumed in a preliminary study.



Finally, between September 2007 and January 2008 the construction company Platina-Bau Co. Ltd. installed further 569 m HOBAS SewerLine Pipe Systems DN 800 by open trench. The contractor connected HOBAS Sand Couplings to the Manholes for a better grip. Since the depth of trench varied between 4.5 and 5.8 m the usual 6 m standard pipes were delivered in 3 m long sections. Thanks to the centrifugal casting process of HOBAS CC-GRP Products it was also possible to cut the 6 m pipes directly on site when necessary.

Year of Construction	2008
Duration of Construction	5 months
Length of Pipe	596 m
Pressure Class	PN 1
Diameter	DN 300 - 1200
Stiffness Class	SN 5000
Installation Method	Open trench
Application	SewerLine®
Client	Pécs Waterworks PLC.
Contractor	Platina-Bau Co. Ltd.
Advantages	high corrosion resistance, high flexibility, easily withstands heavy traffic loads

For further information:

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