

# Business Is Not to Be Left Out in the Rain

## HOBAS® Stormwater Pipes for Europa Retail Park Zvolen, SK

A stormwater drainage system has been installed as part of the underground infrastructure for the Europa Retail Park Zvolen erected by the development company VAV from Banska Bystrica, Slovakia. Built on an area of 27 hectares this industrial zone shall host numerous superstores such as Tesco, Kika, Hornbach etc. by 2013.

The stormwater drainage network was installed to dispose of the industrial area's surface water to the nearby river Hron. High quality, a large product assortment for a complete system and flexible product availability were the most important criteria to the investor as well as the planner and the construction company when it came to material and supplier choice. Having compared available pipe materials, the decision makers found the perfect match in HOBAS CC-GRP SewerLine Systems.

Installation works for the 2.2 km long line commenced in May 2009 and HOBAS Slovakia as well as the production facility at HOBAS Czech Republic proved what they were capable of when deliveries were prompted twice a week during successive months.

The comparably light and handy CC-GRP Pipes DN 600 to DN 1600 were installed in the prepared pipe trenches as well as above ground where they were covered with excavation material to meet the ground level elevation envisaged. In order to pass beneath two roads, the HOBAS Pipeline was simply slipped through steel host pipes using plastic spacers so that the annular space between carrier and host pipe could be evenly grouted afterwards. HOBAS proved its flexibility when an unexpected second DN 1600 inverted siphon had to be installed in addition to the originally planned structure after earthworks uncovered an existing sewer which needed to be circumnavigated. Ensuring equal high quality along the complete stormwater network, HOBAS supplied also fittings such as bends and saddles and Masonry Couplings. The latter were used to connect the pipes to concrete structures, providing leak tightness from the line's start to finish. As the trench was sloped in a wider angle wherever it took to greater depths the installation of shoring panels was not necessary.

Last installation works for the stormwater network were successfully finalized in August 2010. With a service life of up to 100 years the new HOBAS Stormwater Sewer provides safe water drainage for many decades and gives leeway to the step by step erection of the retail park for future businesses.

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Year of construction  
**2009 – 2010**  
Total length of pipeline  
**2,155 m**  
Diameter  
**DN 600 - 1600**  
Pressure class  
**PN 1**  
Stiffness class  
**SN 5000, 10000**  
Installation method  
**Open trench**  
Application  
**SewerLine®**

Client  
**Kartik spol. s r.o.**  
Designer  
**Ing. Ján Timko – Tim project spol. s r.o.**  
Advantages  
**Wide range of products; easy and fast installation even under difficult conditions; high corrosion and abrasion resistance, excellent hydraulic properties; long service life**

