

# HOBAS® CC-GRP Pipe Systems Protect Municipality against Flood Damage

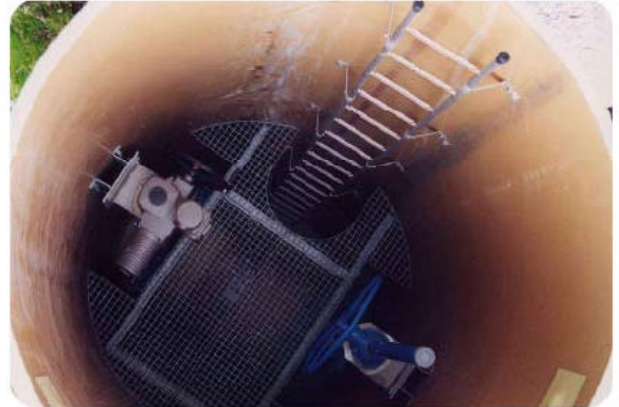
In Pflach/Austria people are no more afraid of heavy rainfalls. HOBAS CC-GRP Pipe Systems help. The municipality of Pflach near Reutte in the Tyrol was continuously struck by heavy floods in the last years. The affected inhabitants lived in permanent fear of heavy rainfalls. Due to the low depth of the river Lech, small water quantities were sufficient to cause floods.

In 2001, the municipality decided to invest approximately 3.6 million EURO in an extensive flood protection project. If required, the newly constructed pump shafts can pump about 2,600 liters of water per second. The pump shafts are placed in changing ground water levels, which means that they have to be 100 % resistant against buoyancy and utterly leak-tight to withstand the water pressure in the long run. Pipes and shafts have to meet very high structural loads.

Due to these requirements, the building authority Reutte, decided for the market leader HOBAS, well-known for high quality pipe systems with a long operational lifetime. "Another reason for this decision of the constructor was the fact that HOBAS delivered all shafts including the necessary sewage pumps, gate valves, backwater locks and the whole electronic equipment for this flood protection project", says project manager Othmar Vogler.

The pipelines for this project were also executed with HOBAS CC-GRP Pipe Systems. The electrical switch room, switch cupboards and the pump controls were constructed by HOBAS, too. This so-called "Prefabricated HOBAS House" was made with a pipe into which an entrance door and a window was cut. Despite heavy flood during construction time, HOBAS successfully finished this project in very short time. Construction works were completed in only 2 months. HOBAS delivered all shafts including the necessary and sewage pumps, gate valves, backwater locks and the whole electronic equipment for this flood protection project.

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Overview	
Year of Construction	2001
Duration of Construction	2 months
Length of Pipes Laid	112 m
Pressure Class	PN 1 and PN 10
Diameter	DN 700 – 2400
Stiffness Class	SN 5000
Application	Flood protection
Client	building authorities Reutte, Municipality Pflach
Contractor	Office Donau Consult, Zottl&Erber
Advantages	HOBAS as System Supplier, prefabricated shafts