

## Munich Airport Terminal 2

During the first years after opening the new Munich airport, the number of passengers increased so much that the customer decided to build the second terminal and to extend the landing and service area into the eastern direction. In extension for the landing field HOBAS CC-GRP Pipe Systems were installed. These pipes are exclusively used as drainage lines for the landing field East and installation depth was 1.5 – 2.5 m. Beginning end of 1997, about 15 km HOBAS CC-GRP Pipe Systems of DN 150 to DN 500 were installed. Quality demand of the airport management was a high resistance to chemical attack to the inner pipe surface in case of problems with fuel and oil handling between start and landing procedures and technical support of the airplanes. Further demand was the usability of a pipe system that consists of only one material for pipes and fittings. At least the pipe system should have mechanical characteristics, that allowed to install it in a landing field area of heavy airplanes (high traffic load). Following that, HOBAS pipes and fittings with SN 10000 and resin quality VA were used.

Each lot of construction was planned and tendered separately. HOBAS met the special quality standards of the orderer every time in the same successful way; by the excellent product characteristics. The orderer decided to take HOBAS also because of the fact, that HOBAS met the very sharp time limits in preceded deliveries. Terminal 2 was planned as a detailed copy of Terminal 1 with his famous 1000 m long service building. To handle the car traffic between the building activities at Terminal 2, the customer sacrificed the green areas in front of Terminal 1 to build short parking zones. Above these parking zones, HOBAS CC-GRP Pipe Systems of DN 1000 and DN 1200 (see photo 1) were installed. Beginning of this lot was in 2000. These pipes are used as the final part for an air conditioning system of the surrounding park houses. The main reasons for using of HOBAS CC-GRP Pipe Systems in this case are the resistance to heavy traffic load of airplanes in combination with the corrosion resistance of HOBAS pipe material.

Overview	
Year of Construction	1997 – 2003
Length of Pipe	15 km
Pressure Class	PN 1
Diameter	DN 150 – 500, DN 1000
Stiffness Class	SN 10000
Installation Method	Ground installation
Application	Drainage of landing field, air conditioning of park house
Client	FMG (airport company), Lufthansa
Contractor	Hinteregger GmbH Munich, Kurt Moth GmbH Illertissen, Streicher Bau Deggendorf
Advantages	Highest resistance against airplane traffic load, minimum installation depth of 1.5 m

