

Project report

Perthus Tunnel Perpignan-Figueras (France/Spain)



Customer:	IFP COBRA FORCLUM GEIE Carretera Nacional II S/N, Km 762,5 17706 Pont de Molins Girona Spain
Type:	Railway tunnel
Length:	7,9 km
Year of manufacture:	2007

The Pyrenees build a natural barrier for the freight and passenger traffic between France and Spain. Prior a train needed from Perpignan/France to Barcelona/Spain nearly three hours. After opening of the new 44 km highspeed-line between Perpignan and Figueras it will only take 50 minutes. The most important sub-project is the Perthus Tunnel, that undercrosses the Col du Perthus on a length of 8 km with two tubes. Both of the Perthus Tunnel tubes are led parallel in

a distance of 25m to 35m. Therefore two hard rock double shields from Schwanau started driving in August and October 2005 on the Spanish side with direction France. On their way through granite, gneiss, granodiorite and schist they built two tunnel tubes with reinforced concrete tubing segments. In early October 2007, the western of the two Herrenknecht machines finished its driving successfully. The breakthrough of the sister machine took place on 23 November 2007.

Products:



➤ System:	Sliding gate
➤ Number of leaves:	2
➤ Drive:	manual
➤ Fire protection:	RF 120 / EI 120
➤ Suction/Pressure:	± 10 kPa
➤ Dimension:	2, 2 m x 2,2 m
➤ Colour:	RAL 6024
➤ Wall and upper part:	yes
➤ Quantity:	82 units
➤ Location:	Cross cut

In addition 8 hinged doors, 2-leaf, in CT-galleries, in a dimension of 4600 x 3986 mm, with fire protection RF 120, pressure/suction: ± 10 kPa, RAL 6009, with wall and upper part.