

Location:	Giswil, Switzerland
Authority:	Canton of Obwalden
Sealing Company:	Sarnafil
Date:	2000 - 2001
Product type:	Enkamat 7220
Quantity:	Approx. 20,000 m ²



The underground construction of the bypass tunnel in Giswil, with a length of 1,945 m, traverses cretaceous and tertiary soil of the Helvetian Wildhorn/ Drusberg layer.

The cross section of the double-tracked tunnel with counter-running traffic was built through this geology.



The formation of profile of the cross section in shape of a horse-shoe was effected by considerations regarding the requirements for clearance gauges for traffic and signal-techniques, the ventilation system, the construction method as well as the geological-geotechnical conditions.

A sealing sheet made of PVC with a signal layer and Enkamat 7220 as protection and drainage layer was chosen as sealing system.



A traditional “umbrella” - sealing was created, with arising water being diverted through Enkamat into the footing collectors.

A sealing and drainage of the sole was not created in this specific project.

The data set forth in this photo leaflet reflects our best knowledge at the time of issue. It is subject to change pursuant to new developments and findings, and a similar reservation applies to the properties of the products described. We do not undertake any liability for results obtained by usage of this information or the products mentioned.



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