

Since the 1970's highly pressure resistant Enkadrain TP drainage mats are applied as drainage and protection layer very successfully in tunnel projects all over the world. Enkadrain TP is meeting the requirements of the German standard DIN 18195 as well as those of the standard DIN 4095. Enkadrain can be used in combination with plastic geomembranes, bituminous sealing sheets and watertight concrete.



One of the of the advantages of Enkadrain compared to alternative products is its ease of handling and its availability in widths of 1 m up to 5 m. Enkadrain can be installed easily around corners and borders. Already in 1986 the German STUVA (Association for underground traffic infrastructure) stated that Enkadrain TP in combination with geomembranes made of ECB and PVC-P, is highly appropriate for the use in tunnelling.

For large projects, Enkadrain can be tailored to the required roll length. Depending on the construction depth, Enkadrain TP drains up to 2.5 litres water per second into the footing drainage and secures a dry tunnel structure.

Enkadrain SL proved its suitability on the occasion of an overhead noise barrier in Goldbach (Germany, Bavaria, motorway A3). For this project 10,000 m<sup>2</sup> have been applied as horizontal drainage on the ceiling and as vertical drainage in front of the walls. Enkadrain met the high quality requirements of the "Autobahndirektion Nordbayern" (motorway management of North Bavaria) and had an excellent price/quality performance. Both client and contractor are very satisfied with the chosen solution and Enkadrain stays their first choice for the upcoming construction works.

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