

Location:	Woudenberg, The Netherlands
Client:	Water Authority Gelderse Vallei en Eem
Design:	Water Authority Gelderse Vallei en Eem and Colbond



The high velocity streams occurring in the Vallei-Channel caused serious erosion damages especially in the bends of the river.

The sheet pile wall which had been constructed some years ago in such a bend suffered a very strong deformation provoked by tailwater-erosion and water veins from the upper situated dike.



As a result, the Water Authority felt compelled to restore the bank. A slope with a smaller gradient was chosen, however, this necessitated a protection against erosion.

Enkamat A20/5, the three-dimensional polyamide matting, pre-filled with chippings with a bitumen binder, offered an optimum solution to this problem. The mat ensures a good protection against erosion at high velocity streams, is permeable and constitutes a nature-favourable river-bank after seeding.



The bank was levelled and covered with seeds. Thereupon, Enkamat 20/5-roll was unrolled from the bottom towards the top and anchored at the upper side into an anchoring ditch of a spade's depth and with steel spikes.

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