



## Protection of peat banks 'De Dalle' Spijkenisse, Netherlands

Location: Spijkenisse, Nederland  
 Project owner: Water authorities  
 Hollandse Delta  
 Contractor: Voorne GWW  
 Date: 2008 - 2009  
 Product type: Enkamat® A20



In 2008, the “De Dalle” waterway in Spijkenisse (NL) suffered from severe erosion. Despite the existing bunding, banks had slumped, causing the waterway to become shallow and reducing its discharge capacity. The soil slumping behind the bunding can be explained by the typically weak soil in this area: peat. The irregular settling of the peat causes the surface to sink unevenly, in places up to an inch or more in a year - also behind the bunding.

The local water authorities, Waterschap Hollandse Delta, found a solution by changing the waterway’s profile (deeper, wider and at a shallower angle), and by using Enkamat A20 for erosion protection. Enkamat A20 has a long record as a well-proven erosion control mat and for this particular project, one of its qualities stood out: flexibility. When the peat settles, the mat settles with it and stays in contact with the ground, providing bank protection at all levels, at all times. It’s just the right mat for this type of soil.

Enkamat A20 is a three-dimensional prefilled geosynthetic structure mat. Grass or other vegetation easily grows through its open voids, creating green banks within a short period of time. Root systems gain a strong foothold thanks to the mat’s special structure. The results are permanently protected, green banks.

Enkamat A20 is maintenance-free and meets category 1 of the Dutch Building Material Standard (Bouwstoffenbesluit) for the environmental protection of soil and surface waters - rating the product as most environmentally friendly.

The information set forth in this case study reflects the best knowledge at the time of publication. The case study is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described. No liability is undertaken for results obtained by usage of the products and information.



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