

Noise barrier Military Police Station, Schiphol

Project owner: Ministry of Defence,
Real Estate Services (DVD)

Contractor: Ballast Nedam Zaandam

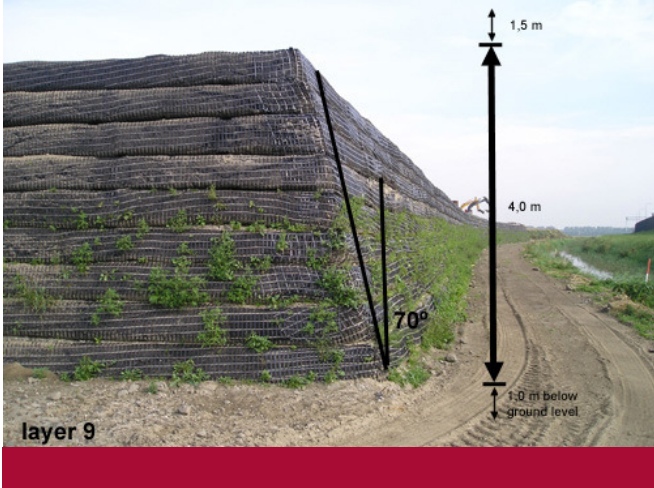
Date: April – July 2006

Product type: Enkagrid PRO 40
Enkagrid PRO 60
Enkamat 7210



The 70° slope was constructed using a steel mould. The preliminary design of the sound bund was made with EnkaSlope v.1.3.

Bottom:
The lowest layers are already green, showing where a holiday period interrupted construction.



Ballast Nedam was commissioned by DVD in Utrecht to build a 6m high noise barrier for the new Military Police station near Schiphol. DVD did not want any steel or concrete screens to be used, preferring a structure with an environmentally-friendly appearance. The steep 70° wall also had to be covered in greenery.

DVD chose to include Enkagrid PRO in the steep wall. Enkagrid PRO is a uniaxial geogrid available in various tensile strengths which absorbs the tensile and shear forces resulting from the steep construction. The use of the geogrid allows the structure to be built at the required gradient saving space and therefore money.

Colbond bv carried out the design calculations in cooperation with Fugro Ingenieursbureau in Leidschendam.

The green finish was created by hydroseeding. A layer of Enkamat was installed behind the Enkagrid PRO to ensure rapid germination of the green cover and to help prevent erosion.

Total quantities

Enkagrid PRO: 44,000m² (40 and 60 kN)
Enkamat 7210: 6,500m²



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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