

Composite Distribution Centre,
Snodland, Kent, GB:

Fortrac[®]

HUESKER
REPORT



Two Bunds with front slope angles of 80° were built around a supermarket distribution centre to shield the residents of Snodland from the noise of the centre that will be open 24 hours a day.

One slope is 9 m high and has an length of 60 m, the second one has a length of approximately 150 m with a maximum height of 7 m. These slopes are of course not stable without reinforcement.

The original design of Ove Arup & Partners was based on a HDPE grid.

The Contractor proposed **Fortrac**[®] as an alternative. Because of the high modulus Polyester yarns used as the structural element in the grid the allowable load for a life-time of 120 years is higher than for the comparable HDPE grid.

The Polymer coating protects the yarns against mechanical damage and UV attack.

The design with **Fortrac**[®] grids resulted in considerable savings for the Contractor.

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At the front side of the Bund Greenfix mattresses were placed to improve growth of grass.

In total approximately 30,000 m² of **Fortrac®** have been installed.

The 9 m high section of the Bund was built with 15 layers of **Fortrac®** 80/30-20 at spacings of 200 mm and on top of that 8 layers **Fortrac®** 80/30-20 at spacings of 400 mm followed by 6 layers **Fortrac®** 55/30-20 at spacings of 400 mm.

The anchor length in this section was 9 m.

In other, lower sections, also **Fortrac®** 55/30-20 was used.



The anchor lengths in other sections were mostly reduced, directly related to the height of the slope.

Construction of the Bunds started in April, 1988 and was completed in July, 1988.

Fortrac® is a registered trademark of HUESKER Synthetic GmbH & Co.

HUESKER

HUESKER Synthetic GmbH
Fabrikstraße 13-15 · D-48712 Gescher
P.O. Box 1262 · D-48705 Gescher
Phone: +49 (0) 25 42 / 7 01-0
Fax: +49 (0) 25 42 / 7 01-499
E-Mail: info@huesker.de
Internet: www.huesker.com

