

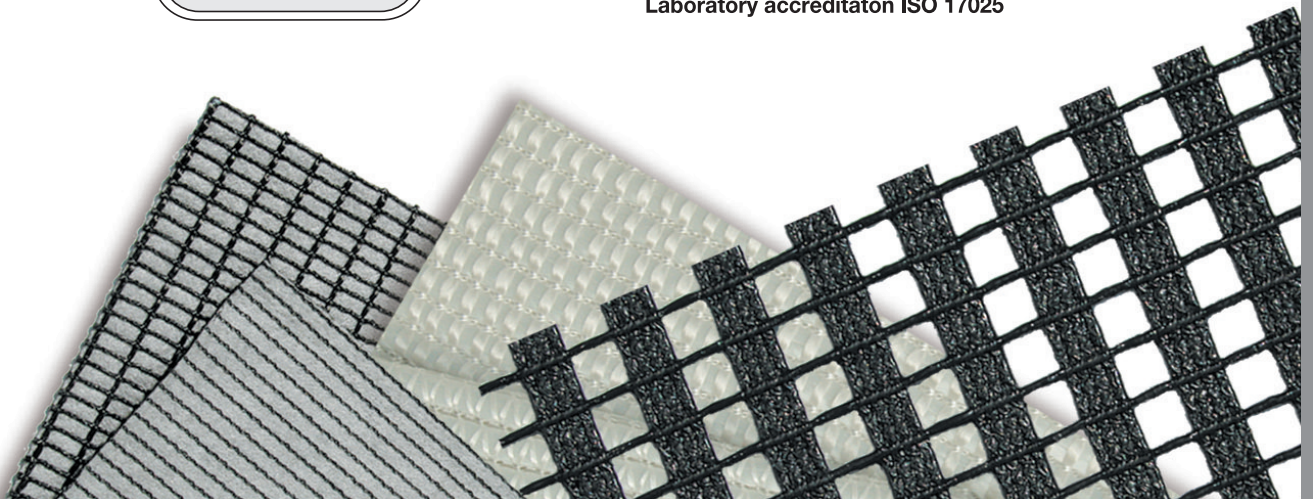
HUESKER

Engineering with Geosynthetics

CE

HUESKER Synthetic GmbH has successfully been audited by the Institut für textile Bau- und Umwelttechnik (tBU) in accordance with the European standards for CE marking of Geotextiles and Geotextile Related Products.

HUESKER Synthetic GmbH is registered under the Factory Production Control Number **0799-CPD-17**.



HUESKER

Engineering with Geosynthetics



CERTIFICATE
 The TÜV CERT Certification Body for QM-Systems of RWTÜV Systems GmbH hereby certifies in accordance with TÜV CERT procedure that


HUESKER Synthetic GmbH
 48712 Gescher / Germany

has established and applies a quality system for Development, manufacture, inspection, sales and applications support of geosynthetics and technical textiles

An audit was performed. Report No. 20580592
 Proof has been furnished that the requirements according to DIN EN ISO 9001 : 2000 are fulfilled. The certificate is valid until 31 May 2006
 Certificate Registration No. 0410019970084
 The company has been certified since March 1997


 Essen, 23.07.2003


Huesker Synthetic GmbH
 Fabrikstraße 13-15
 D-48712 Gescher
 Germany
 Tel: 00 49 2542 7010 Fax: 00 49 2542 701499
 email: info@huesker.de
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Roads and Bridges
 Agrément Certificate
 No 01/R125
 Second Issue*

Designated by Government to Issue European Technical Approvals
FORTRAC GEOGRIDS
 Grilles polymères pour renforcement des sols
 Polymer-Overlays for Soil Reinforcement

Product



Highways Agency Requirements — Detail Sheet 1


Huesker Synthetic GmbH
 Fabrikstraße 13-15
 D-48712 Gescher
 Germany

Roads and Bridges
 Certificate No 01/R125
DETAIL SHEET 2

FORTRAC GEOGRIDS

Product

- THIS DETAIL SHEET RELATES TO FORTRAC GEOGRIDS, POLYMERIC GEOGRIDS FOR USE AS REINFORCEMENT IN EMBANKMENTS WITH SLOPE ANGLES UP TO 70°
- The products provide lateral restraint to suitable cohesive or frictional soils in embankments, with stability achieved by the interaction and interlocking of the soil particles with the Fortrac Geogrids.

This Detail Sheet must be read in conjunction with the Form Sheet, which gives the Highways Agency (HVA) requirements and Conditions of Certification.

DAP Deutsches Akkreditierungssystem Prüfwesen GmbH
 Signatory to the Multilateral Agreement of EA for mutual recognition and to the Mutual Recognition Arrangement of ILAC
 represented in the

Deutschen Akkreditierungsrat


Accreditation

The DAP Deutsches Akkreditierungssystem Prüfwesen GmbH herewith confirms that the

HUESKER Synthetic GmbH
 Fabrikstraße 13-15
 48712 Gescher

is competent under the terms of DIN EN ISO/IEC 17025:2000 to carry out tests in the fields of


mechanical and thermoanalytical examinations on textiles, technical textiles, especially Geotextiles (Geosynthetics) and geotextile-related products

for the test methods listed in the annex.
 The accreditation is valid from 2004-06-30 to 2009-06-29.
 DAR registration number: DAP-PL-3226.00
 Berlin, 2004-06-30


 Dr.-Ing. K. Benter
 Managing Director
 DAP Deutsches Akkreditierungssystem Prüfwesen GmbH


 Dipl.-Ing. B. Witt
 Responsible Applicant for DAP-Cert
 Unternehmensbereich für Verkaufs- und Produktionskontrolle
 Gescher

Translation for information purposes only. The German certificate is authoritative. 1st issue
 See notes overleaf


Institut für textile Bau- und Umwelttechnik GmbH
 Institute for textile building and environment technology
 Gutenbergstr. 29 • 48268 Greven • Germany

Certificate 0799-CPD-17
Factory Production Control

In compliance with the Directive 89/105/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction products

Contrac® 20/20 B20, 30/20 B30, 30/30 B15, 30/30 B20, 50/25 B20, 50/50 B20, 50/30 B30, 50/30 B30, 75/75 B20, 110/35-20 B20, 230/20 B20, 500/100 A15, 1000/100 A15
Fornit® D 20/20-40 T, D 30/30-40 T, D 40/40-40 T, D 60/60-40 T
Fortrac® 30-30, 30-40, 30-45, 30-90, 30-120, 15/15-20, 20/9-30, 20/9-35, 20/13-20, 20/20-35, 35/15-20, 35/20-20, 35/20-25, 45/16-20, 50/50-20, 50/30-20, 50/50-20, 50/60-20, 50/30-20, 50/50-20, 50/50-20, 110/10-20, 120/20-20, R 100/10-40, R 110/20-20, R 110/10-30, R 110/10-30, R 150/20-30, R 150/10-30, R 180/20-30, R 200/20-30, R 250/30-30, R 250/50-30, R 300/30-30, R 300/50-30, R 350/50-30, R 400/30-30, R 400/50-30, R 400/50-40, R 450/50-30, R 500/30-30, R 500/50-30, R 600/30-30, R 600/50-30, R 625/100-20/80 P, R 700/140-10, R 800/100-10
Fortrac® A R 400/50-30 AM, R 1200/100-10 AM
Fortrac® M 20/13-20/20 MP, 30/20-20 M, 30/20-20 M, 30/20-20/20 MP, 50/25-20/20 MP, 50/20-30 MP, 80/25-20/20 MP, 110/25-20/20 MP, R 40/40-30 M, R 50/50-20 M, R 65/65-35 M, R 80/80-30 M, R 90/90-30 M, R 100/20-30 MP, R 120/20-30 MP, R 120/120-30 M, R 130/30-30 MP, R 130/130-30 M, R 150/30-30 MP, R 200/20-30 MP, R 200/20-30 MP, R 200/50-30 MP, R 200/100-20 M, R 200/200-30 M, R 250/30-30 M, R 350/50-30 M, R 400/30-30 M, R 600/200-10 MP, R 1200/100-20 M, R 1600/100-20 M
Fortrac® T 20/13-20 T, 30/20-20 T, 40/40-35 T, 50/30-20 T, 60/30-20 T, 80/30-20 T, 80/80-30 T, 110/20-20 T, R 65/65-30 T, R 70/70-20 T, R 80/80-30 T, R 130/30-30 T, R 150/30-30 T, R 200/30-30 T, R 200/100-20 T, R 250/30-30 T, R 250/50-30 T, R 300/30-30 T, R 300/50-30 T, R 400/100-10 T, R 450/50-20 T, R 450/100-10, R 500/50-30 T, R 500/50-30 T, R 600/50-30 T, R 600/100-10 T, R 600/50-30 T, R 700/50-30 T
HaTe® 23.142, 23.142 GR, 30.143, 33.143, 40.674, 43.144, 50.145, 90.557, A 00.005, C 00.020, C 10.241, C 20.002, D 00.006, D 00.020, PES 300/50, 60.006, 60/90/50A, 60/110/50A, 60/130/50A, 60/240/50A, 60/240/50A, A 20.656 SP
Ringtrac® 70.104 R, 90.195 R
Stabtenik® 100/50, 100/100, 120/120, 150/45, 150/100, 150/150, 200/45, 200/100, 200/200, 200/200 S, 300/45, 300/100, 400/50, 400/100, 500/50, 500/100, 600/50, 600/100, 800/100, 1000/100, 1500/200
 B 150 K3, B 200 K3, B 250 K4, B 300, B 300 "C", B 350 K3, B 400, B 400 "C", B 450 W, B 500, B 500 S, B 600, B 600 "C", B 600 W, B 800, B 800 "C", B 900 W, B 800 "C", B 1000, B 1000 W, B 1200, B 1200 F, B 1200 L, B 1200 "C", B 1200 W, B 1500, B 1500 F, B 1600, B 2000, B 2000 L, B 2000 "C", B 2000 W, B 2400 L, D 400, D 800, D 1200, E 650, E 800Z, E 1200 C

produced by

HUESKER Synthetic GmbH
 Fabrikstraße 13-15, 48712 Gescher, Germany

are submitted by the manufacturer to the initial type-testing of the products and a factory production control and that the approved body TBU - Institut für textile Bau- und Umwelttechnik GmbH, Greven, Germany, has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.



This certificate attests that all provisions concerning the attestation of factory production control described in Annex ZA of the standards

EN 13248, 13250, 13251, 13252, 13253, 13254, 13255, 13256, 13257, 13265

were applied.

This certificate was first issued on 15.09.2002 and remains valid as long as the conditions laid down in the harmonised technical specification in reference to the manufacturing conditions in the factory or the FPC itself are not modified significantly and latest on 31.12.2005.

Greven, 07.06.2004



 Prof. Dr.-Ing. Müller-Roehholz

This certificate including newest products: www.tbu-gmbh.de

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