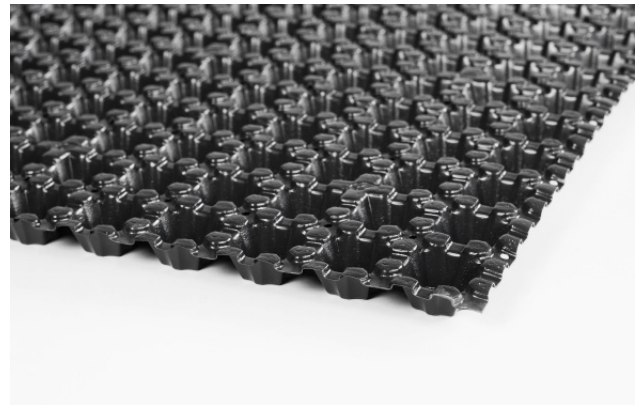


OPTIGRÜN FKD 25E

Drainage and Storage Board

Made from deep-drawn recycled HDPE with water reservoir function, channel system on the underside for drainage and with diffusion and drainage holes. For use on extensive green roofs with a multi-layer construction and under path surfaces (can be walked on) with > 60 mm substructure.. Suitable for use on inverted roofs.



Material	Recycled HDPE
Nominal thickness	approx. 25 mm
Grammage	approx. 1.000 g/m ²
Dimensions	1.000 x 2.150 mm
Colour	black
Max. compressive strength unfilled	approx. 170 kN/m ² (DIN EN ISO 25619-2) approx. 160 kN/m ² with 10% compression
Max. compressive strength filled	> 600 kN/m ² with 10% compression and 35 mm overfilling
Water discharge capacity (DIN EN ISO 12958)	Measured at: $\sigma = 20$ kPa, soft/hard, MD, with a FIL 105 filter fleece on the upper side: i = 0,01 (=1 % roof pitch): 1,05 l/(m*s) i = 0,02 (=2 % roof pitch): 1,40 l/(m*s) i = 0,1 (=10 % roof pitch): 2,18 l/(m*s) i = 1 (vertical): 9,82 l/(m*s)
Water reservoir unfilled	approx. 8,0 l/m ²
Filling volume	approx. 8,5 l/m ²
CE certification	yes (DIN ISO 13252)
Quantity/delivered unit	2,15 m ² /panel = 1,0 x 2,15 m 903 m ² /disposable pallet
Delivery form	disposable pallet 2,15 x 1,00 m
Delivery weight	approx. 2,15 kg/panel - approx. 930,0 kg/ disposable pallet
Pack size	LxWxH 2.150 x 1.000 x 25 mm

Area of use

- As a drainage and storage board under extensive green roofs in a triple-layer structure with filter fleece FIL 105 and extensive multi layer substrate E on flat roofs up to RP 5° (= 8.8%).
- As a drainage element under thin-layer pedestrian pathways in gravel beds without compacted base layer without filter fleece directly filled with bedding material. Also lay the FKD 25E with min. 1 row of naps overlapping and overfill with the bedding material (without zero graining, e.g. chippings 2/5) min. approx. 3 cm.

Specific properties

- 100% recycled HDPE
- CE-marked
- Drainage according to DIN 4095
- Safe and targeted guiding of excess water
- Depositing of water in the recesses
- Low weight
- Also suitable for non-pitched roofs
- Lightweight super structure with high drainage capacity
- Recyclable

The preceding details are guideline values established under laboratory conditions. These values are subject to a certain manufacturing tolerance. The data contained in this product information sheet represents Optigrün's technical knowledge at the time of publication. Optigrün reserves the right to change and update details in accordance with new insights and to modify specified properties accordingly. No liability accepted for misprints.

DEUTSCHLAND

Optigrün international AG
Am Birkenstock 15 – 19 | 72505 Krauchenwies-Göggingen
Tel. +49 7576 772-0 | info@optigruen.de

GREAT BRITAIN

Optigreen Limited
Unit 157 | Milton Keynes Business Centre
Foxhunter Drive | Linford Wood | Milton Keynes | MK14 6GD
Tel. sales@optigreen.co.uk | +44 203 589 9400

OPTIGRÜN®
ROOF GREENING