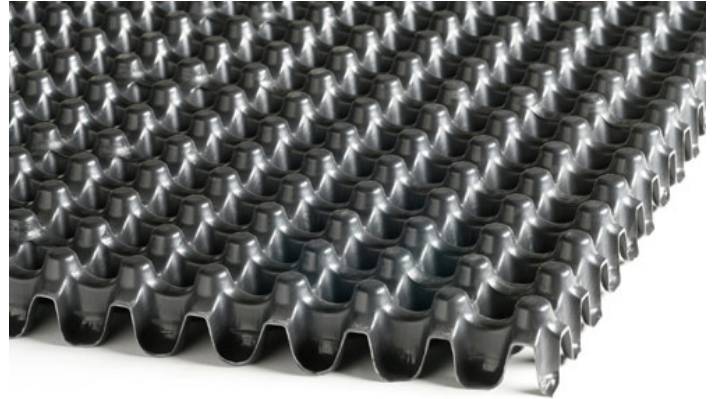


OPTIGRÜN FKD 40

Drainage and Storage Board

Plastic panel made from deep drawn recycled HDPE with a high water storage function, channel system for drainage on the underside and diffusion holes.



Material	Recycled HDPE
Nominal thickness	approx. 40 mm
Grammage	approx. 1,800 g/m ²
Colour	black/grey
Max. compressive strength unfilled	approx. 118 kN/m ² (DIN EN ISO 25619-2)
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): 1.60 l/(m*s) $i = 0.02$ (=2 % roof pitch): 2.31 l/(m*s) $i = 0.05$ (=5 % roof pitch): 3.76 l/(m*s) $i = 1$ (vertical): 16.64 l/(m*s)
Water reservoir unfilled	small naps facing up (lettering readable) = approx. 8.7 l/m ²
Filling volume	small naps facing up (lettering readable) = approx. 16.0 l/m ²
Quantity/delivered unit	2 m ² /panel = 2.0 x 1.0 m 600 m ² /pallet
Delivery form	600 m ² on pallet 2.05 x 1.05 m
Pack size	LxWxH 2,000 x 1,000 x 40 mm
Delivery weight	approx. 3.6 kg/panel approx. 1,120 kg/full pallet LxWxH 2.05 x 1.05 x 1.50 m

Area of use

- Under extensive green roofs with increased layer structure (nature roof up to 250 mm)
- Under simple intensive green roofs with low layer structure (garden roof up to 300 mm)
- Suitable for long flow routes due to high drainage performance

Specific properties

- 100% recycled HDPE
- Suitable for inverted roofs
- 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
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions



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.

Optigrün international AG

Am Birkenstock 15 – 19,
72505 Krauchenwies-Göggingen
Tel. +49 7576 772-0, Fax +49 7576 772-299, info@optigruen.de

Optigreen Limited (Service UK only)

Suite G5 Albany Chambers, 26 Bridge Road East
Welwyn Garden City (Herts), AL7 1HL
Phone +44 203 5899400, Fax +44 207 1171664, info@optigreen.co.uk

