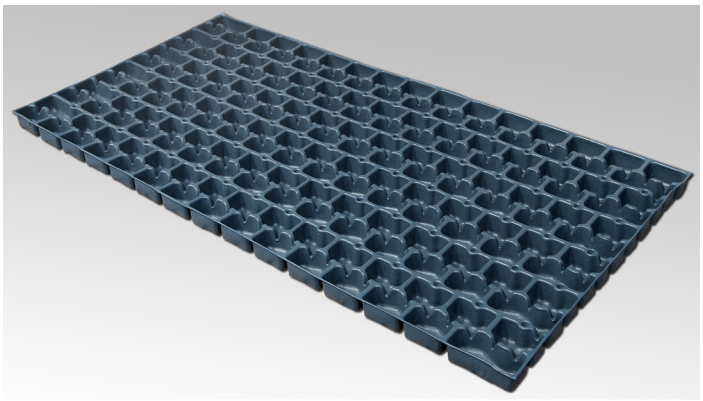
# OPTIGRÜN FKM 60

## Meander Water Retention Board



Drainage and storage element with significant drainage-delaying action and permanent water reservoir made from deep-drawn recycled HDPE. For use with extensive and intensive green roofs with a multi-layer construction on roofs with up to 5° roof pitch. Not suitable for inverted roofs.

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|---|---|
| Material | Recycled HDPE |
| Nominal thickness | approx. 60 mm |
| Grammage | approx. 2.5 kg/m² |
| Colour | black/grey |
| Max. compressive strength | approx. 97.4 kN/m² with 27.4 % compression (DIN EN ISO 25619-2) |
| Water reservoir unfilled | approx. 17.5 l/m² permanently and up to 14.5 l/m² temporarily |
| Water discharge capacity (DIN EN ISO 12958) | Measured at: σ = 20 kPa, soft/rigid, MD, with a Type 105 filter fleece on the upper side:<br>i = 0.01 (=1 % roof pitch): 0.48 l/(m*s)<br>i = 0.02 (=2 % roof pitch): 0.70 l/(m*s)<br>i = 0.05 (=5 % roof pitch): 1.13 l/(m*s)<br>i = 1 (vertical): 5.49 l/(m*s) |
| Discharge coefficient at 2% roof pitch | - unfilled with filter fleece and 60 mm multi layer substrate: C = 0.17<br>- unfilled with filter fleece and 80 mm multi layer substrate: C = 0.13 |
| Discharge coefficient at 0% roof pitch (tested as per the FLL guideline) | - unfilled with filter fleece and 60 mm multi layer substrate: C = 0.08<br>- unfilled with filter fleece and 80 mm multi layer substrate: C = 0.05 |
| Quantity/ delivered unit | 1.8 m²/panel = 1.9 x 0.95 m<br>216 m²/disposable pallet (120 pieces) |
| Delivery form | 216 m² on disposable pallet<br>2.05 x 1.05 m |
| Pack size | LxWxH 1,900 x 950 x 60 mm |
| Delivery weight | approx. 4.5 kg/panel -<br>approx. 565.0 kg/full disposable pallet |

### Area of use

Beneath extensive and simple intensive green roofs, unfilled, with FIL 105 filter fleece and multi layer substrate for water reservoir and targeted water discharge delay.

### Specific properties

- 100% recycled HDPE
- Not suitable for inverted roofs
- Drainage according to DIN 4095
- Significantly delayed discharge of excess water
- Low weight
- Prevents accumulation of water for non-pitched roofs and large drainage lengths
- High retention with high drainage capacity
- High permanent water storage capacity
- Recyclable
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions

Europäische Technische Bewertung ETA ETA-13/0557 vom 8. Juli 2021
Deutsches Institut für Bautechnik DIBt

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.

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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

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