

OPTIGREEN FKM 30

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 under multi-layer extensive greening on roofs with up to 5° roof pitch without a water reservoir.



Material	Recycled HDPE
Nominal thickness	approx. 30 mm
Grammage	approx. 1.7 kg/m ²
Colour	black/grey
Max. compressive strength unfilled	approx. 115 kN/m ² with approx. 12.4% compression (DIN EN ISO 25619-2)
Temporary water storage capacity (fill volume)	approx. 19.0 l/m 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): 0.162 l/(m*s) $i = 0.02$ (=2 % roof pitch): 0.228 l/(m*s) $i = 0.05$ (=5 % roof pitch): 0.363 l/(m*s) $i = 1$ (vertical): 1.709 l/(m*s)
Quantity/ delivered unit	2 m ² /panel = 1.95 x 1.03 m 500 kg/disposable pallet
Delivery form	500 m ² on disposable pallet 2.05 x 1.05 m (250 pieces)
Pack size	LxWxH 1,950 x 1,030 x 30 mm
Delivery weight	approx. 3.4 kg/panel - approx. 875.0 kg/full disposable pallet

Area of use

Beneath multi-layer extensive greening on roofs with RP to 5° (= approx. 9%) with particularly high demands on a discharge delay effect.

Specific properties

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

Special features

Peak discharge coefficient C, measured in accordance with FLL directive:
 - Standard structure (Meander 30, filter fleece 105, 60 mm extensive multi layer substrate E)
 at 2% roof pitch (approx. 1°) peak discharge coefficient C = 0.01
 at 9% roof pitch (approx. 5°) peak discharge coefficient C = 0.15.

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 Optigreen's technical knowledge at the time of publication. Optigreen 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

