

# OPTIGRÜN FKM 30

## Meander Water Retention Board

Drainage and storage element with significant drainage-delaying action 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. Not suitable for inverted roofs.



<b>Material</b>	Recycled HDPE
<b>Nominal thickness</b>	approx. 30 mm
<b>Grammage</b>	approx. 1.7 kg/m <sup>2</sup>
<b>Colour</b>	black/grey
<b>Max. compressive strength unfilled</b>	approx. 115 kN/m <sup>2</sup> with approx. 12.4% compression (DIN EN ISO 25619-2)
<b>Temporary water storage capacity (fill volume)</b>	approx. 19.0 l/m <sup>2</sup>
<b>Water discharge capacity (DIN EN ISO 12958)</b>	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)
<b>Quantity/delivered unit</b>	2 m <sup>2</sup> /panel = 1.95 x 1.03 m 500 kg/disposable pallet
<b>Delivery form</b>	500 m <sup>2</sup> on disposable pallet 2.05 x 1.05 m (250 pieces)
<b>Pack size</b>	LxWxH 1,950 x 1,030 x 30 mm
<b>Delivery weight</b>	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
- Not suitable for inverted roofs
- 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
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions

### 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 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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