

# OPTIGRÜN FKD 20R

## Drainage and Storage Board

Made from deep-drawn recycled HDPE with water reservoir function, channel system for drainage and laminated Optigrün Filter Fleece FIL 100.

For use on extensive green roofs with a multi-layer construction.



<b>Material</b>	Recycled HDPE (napped sheet) and PP (fleece)
<b>Nominal thickness</b>	Approx. 20 mm
<b>Grammage</b>	Approx. 900 g/m <sup>2</sup> of which approx. 800 g/m <sup>2</sup> napped sheet and approx. 100 g/m <sup>2</sup> filter fleece (GRC 2)
<b>Colour</b>	black/white
<b>Compressive strength</b>	Approx. 100 kN/m <sup>2</sup>
<b>Water reservoir</b>	Approx. 4.5 l/m <sup>2</sup>
<b>Water discharge capacity (DIN EN ISO 12958)</b>	i = 0.01 (=1 % roof pitch): 0.63 l/(m*s) i = 0.02 (=2 % roof pitch): 0.89 l/(m*s) i = 0.05 (=5 % roof pitch): 1.46 l/(m*s) i = 0.1 (=10 % roof pitch): 2.11 l/(m*s) i = 1 (vertical): 6.91 l/(m*s)
<b>Upper layer</b>	Optigrün Filter Fleece FIL 100
<b>Quantity/ delivered unit</b>	Roll goods 15.75 m <sup>2</sup> (15 x 1.05 m) Pallet with 8 rolls = 126.0 m <sup>2</sup>
<b>Delivery form</b>	126.0 m <sup>2</sup> per pallet Disposable pallet 1.20 x 1.20 m
<b>Pack size</b>	Approx. LxWxH 1,200 x 1,200 x 2,300 mm
<b>Delivery weight</b>	Approx. 14.5 kg/roll Approx. 150.0 kg/pallet

### Area of use

- As a drainage and storage board under extensive green roofs in a multi-layer construction with Optigrün Extensive Substrate E on flat roofs up to roof pitch 5° (= 8.8%).
- Not suitable for use on inverted roofs
- Not suitable for use under walking surfaces or road surfaces

### Specific properties

- 100% recycled HDPE (napped sheet)
- 100% PP (fleece)
- Fleece strips on the head side (Optigrün Filter Fleece FIL 300) to facilitate laying with an overlap
- Safe and targeted guiding of excess water
- Low weight
- Lightweight super structure with high drainage capacity
- Recyclable
- Very fast and easy to install (see installation instructions)

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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