

# OPTIGREEN FKD 40

## Drainage and Storage Board

Made from deep-drawn recycled HDPE with water reservoir function, channel system on the underside for drainage, and with diffusion and drainage holes. For use with extensive and simple intensive green roofs with a multi-layer construction. Suitable for use on inverted roofs.



<b>Material</b>	Recycled HDPE
<b>Nominal thickness</b>	approx. 40 mm
<b>Grammage</b>	approx. 2,300 g/m <sup>2</sup>
<b>Colour</b>	black/grey
<b>Max. compressive strength unfilled</b>	approx. 144 kN/m <sup>2</sup> (DIN EN ISO 25619-2) with 8.4 % compression
<b>Max. compressive strength filled</b>	approx. 280 kN/m <sup>2</sup> with 10 % compression and 20 mm overfilling
<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): 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)
<b>Flammability</b>	Construction material class E as per DIN EN 13501, certified in accordance with DIN EN ISO 11925-2
<b>Water reservoir (unfilled)</b>	small naps facing up (lettering readable): approx. 8.7 l/m <sup>2</sup>
<b>Filling volume</b>	small naps facing up (lettering readable): approx. 16.0 l/m <sup>2</sup>
<b>Quantity/delivered unit</b>	2 m <sup>2</sup> /panel = 2.0 x 1.0 m 600 m <sup>2</sup> /disposable pallet
<b>Delivery form</b>	600m <sup>2</sup> on disposable pallet 2.05 x 1.05m
<b>Pack size</b>	LxWxH 2,000 x 1,000 x 40 mm
<b>Delivery weight</b>	approx. 4.6 kg/panel - approx. 1,405.0 kg/full disposable 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)
- Not suitable under floor surfaces
- Suitable for long flow routes due to high drainage performance

### Specific properties

- 100% recycled HDPE
- CE-marked CE-1213-CPD-4265
- 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

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.

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