

# OPTIGREEN FKD 25 PLUS

## Protection and Drainage 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 on inverted roofs capable of bearing a load and under flagging on warm and inverted roofs.



<b>Material</b>	Recycled HDPE
<b>Nominal thickness</b>	approx. 27 mm
<b>Grammage</b>	approx. 2,500 g/m <sup>2</sup>
<b>Colour</b>	black/grey
<b>Max. compressive strength filled</b>	approx. 460 kN/m <sup>2</sup> with 5% compression and 35 mm overfill with lava/chippings
<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): 0.93 l/(m*s) $i = 0.02$ (=2 % roof pitch): 1.33 l/(m*s) $i = 0.05$ (=5 % roof pitch): 2.20 l/(m*s) $i = 1$ (vertical): 9.70 l/(m*s)
<b>Filling volume</b>	small naps facing up = approx. 14.5 l/m <sup>2</sup> (surface side) large naps facing up = approx. 7.5 l/m <sup>2</sup> (greening side)
<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 = approx. 3.6 l/m <sup>2</sup> (surface side) large naps facing up = approx. 5.0 l/m <sup>2</sup> (greening side)
<b>Quantity/delivered unit</b>	2 m <sup>2</sup> /panel = 2.0 x 1.0 m 500 m <sup>2</sup> /disposable pallet
<b>Delivery form</b>	500 m <sup>2</sup> on disposable pallet 2.05 x 1.05m
<b>Pack size</b>	LxWxH 2,000 x 1,000 x 27 mm
<b>Delivery weight</b>	approx. 5.0 kg/panel - approx. 1,275.0 kg/full disposable pallet

### Area of use

- Filled beneath traffic surfaces for vehicles up to 16 tonnes (also on inverted insulation)
- Filled beneath (frequently used) pavements and pathways
- Generally beneath surfaces with higher pressure load and low build-up height

### Specific properties

- 100% recycled HDPE
- CE-marked CE-1213-CPD-4265
- Safe and targeted guiding of excess water
- Pressure stable
- Low weight
- Open to vapour diffusion
- 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.

### 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

