

OPTIGRÜN 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.



Material	Recycled HDPE
Nominal thickness	approx. 27 mm
Grammage	approx. 2,500 g/m ²
Colour	black/grey
Max. compressive strength filled	approx. 460 kN/m ² with 5% compression and 35 mm overfill with lava/chippings
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): 0.93 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)
Filling volume	small naps facing up = approx. 14.5 l/m ² (surface side) large naps facing up = approx. 7.5 l/m ² (greening side)
Flammability	Construction material class E as per DIN EN 13501, certified in accordance with DIN EN ISO 11925-2
Water reservoir unfilled	small naps facing up = approx. 3.6 l/m ² (surface side) large naps facing up = approx. 5.0 l/m ² (greening side)
Quantity/delivered unit	2 m ² /panel = 2.0 x 1.0 m 500 m ² /disposable pallet
Delivery form	500 m ² on disposable pallet 2.05 x 1.05m
Pack size	LxWxH 2,000 x 1,000 x 27 mm
Delivery weight	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
- 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 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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