

OPTIGREEN FKD 12

Protection and Drainage Board

Made from deep-drawn recycled HDPE with no water reservoir function with channel system on the upper side and fleece lining as well as PE film adhered on the reverse as the first slip layer for drainage under load-bearing traffic areas.



Material	Recycled HDPE (napped sheet) PP (fleece) PE (slip layer)
Nominal thickness	approx. 12 mm
Grammage	approx. 1,300 g/m ² (total) approx. 940 g/m ² (napped sheet) approx. 260 g/m ² (fleece) approx. 100 g/m ² (slip layer)
Colour	grey/black
Compressive strength	- approx. 1,600 kN/m ² with 18.8 % compression - approx. 400 kN/m ² with 10 % compression (DIN EN ISO 25619-2)
Filter fleece	PP thermally strengthened, GRC 4, 260 g/m ² flow rate with 100 mm water column 23 l/m ² x s
Slip layer	PE black, approx. 160 µ, friction coefficient <0.6
Water discharge capacity (DIN EN ISO 12958)	Measured at: $\sigma = 20$ kPa, soft/hard, MD, with 260 g/m ² filter fleece on the upper side: i = 0.01 (=1 % roof pitch): 0.28 l/(m*s) i = 0.02 (=2 % roof pitch): 0.39 l/(m*s) i = 0.05 (=5 % roof pitch): 0.66 l/(m*s) i = 1 (vertical): 3.21 l/(m*s)
Quantity/delivered unit	25 m ² /roll = 2.0 x 12.5 m 150 m ² /disposable pallet
Delivery form	according to size of order
Delivery weight	approx. 33.0 kg/roll approx. 220 kg/disposable pallet
Pack size	Diameter approx. 0.45 m, height approx. 2.0 m/per roll

Area of use

- As a drainage element under public areas on buildings used by vehicles up to 16 t permitted total weight (corresponding to FLL guideline load class 3). According to FLL recommendation, an additional slip layer is added under the drainage element as per the manufacturer's recommendation to construct public areas on buildings where required.
- As a drainage element under vegetation areas with no need for a water reservoir but extremely high pressure load.
- Use only on roof surfaces with a minimum of 2% regular gradient of the sealing plane.

Specific properties

- 100% recycled HDPE
- CE-marked CE-1213-CPR-5584
- Pressure stable
- Prevents accumulation of water
- Lightweight super structure with high drainage capacity
- Compressive strength approx. 1,600 kN/m² (160 t/m²)
- Thermally strengthened filter fleece layer with 23 l/m² x s flow rate with 100 mm water column.
- 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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