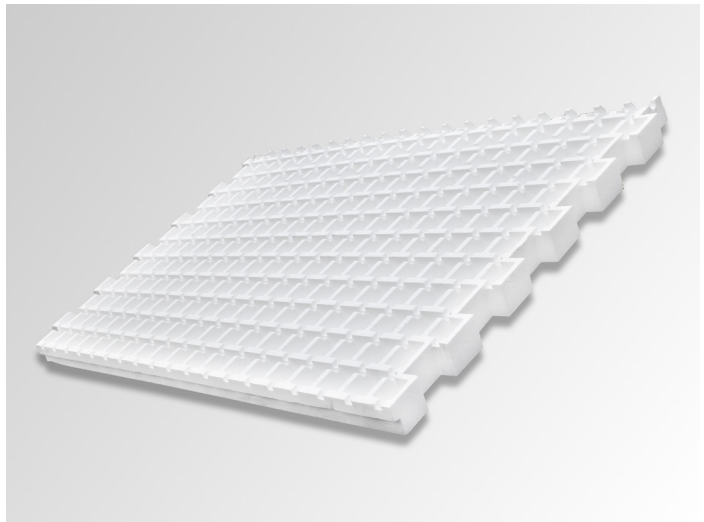


OPTIGRÜN FKD 58SD

Pitched Roof Board

For use as anti-slip, drainage and water reservoir panel for pitched green roofs from 15° - approx. 30° roof pitch.



Material	EPS (expanded polystyrene, HBCD-free)
Nominal thickness	Approx. 58 mm
Grammage	Approx. 870 g/m ²
Colour	White
Compressive strength filled	Approx. 100 kN/m ² with 9.5% compression
Filling volume	18 l/m ²
Substrate quantity	Extensive multi layer substrate E 70/lm ² , corresponds to approx. 40 mm overfilling of the panel with compression factor 1.2
Water reservoir unfilled	Approx. 4.3 l/m ² (at 15°) up to 3.4 l/m ² (at 30°)
Shear load	Per structurally effective abutment in flow direction = 7.0 kN
Water discharge capacity (DIN EN ISO 12958)	2010-08 with 20 kN/m ² superimposed load: i = 0.17 (approx. RP 10°): 1.56 l/(m*s) i = 0.26 (approx. RP 15°): 1.94 l/(m*s) i = 0.34 (approx. RP 20°): 2.24 l/(m*s) i = 0.42 (approx. RP 25°): 2.53 l/(m*s) i = 0.57 (approx. RP 30°): 2.94 l/(m*s)
Quantity/delivered unit	Approx. 0.83 kg/panel Approx. 33.2 m ² /panel disposable pallet
Delivery form	4 bundles of 10 panels on a disposable pallet 1,200 x 800 x 2,090 mm
Pack size	LxWxH 1195 x 725 x 58 mm (approx. 0.87 m ²)
Coverage dimensions	LxWxH 1165 x 715 x 58 mm (approx. 0.83 m ²)
Delivery weight	Approx. 0.72 kg/panel - Approx. 45.0 kg/full disposable pallet
Special feature	Free from HBCD

Area of use

As a drainage, anti-slip and water reservoir element for pitched green roofs with roof pitch up to 30° with an anti-slip effect due to the direct filling of the storage chambers. Vegetation mats are to be laid with stretch-resistant fabric lining from a roof pitch of 15°.

Specific properties

- 100% EPS (expanded polystyrene)
- Free from HBCD (flame retardant)
- Shear load: Per structurally effective abutment in flow direction = 7.0 kN
- Drainage according to DIN 4095
- Depositing of water in the recesses
- Low weight
- Delayed guiding of water due to cascade-type spillway function of the chambers
- Water storage capacity after filling: 4.3 l/m² (at 15°) up to 3.4 l/m² (at 30°)
- Ideal for accurate fitting around roof protrusions and sloping vergeboard connections or chamfers.
- Anti-slip laying and minimal tricking of the substrate on the protective layer due to accurate lateral interlinking and horizontal overlap
- Accurately fitting Z-shaped rabbet at upper and lower edge as well as side box toothing for the secure transfer of shear load in the flow direction as well as for substrate trickle protection, holder for irrigation hoses
- Material is not permanently UV stable. Material must be covered with substrate immediately after installation. No permanent outdoor storage.

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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