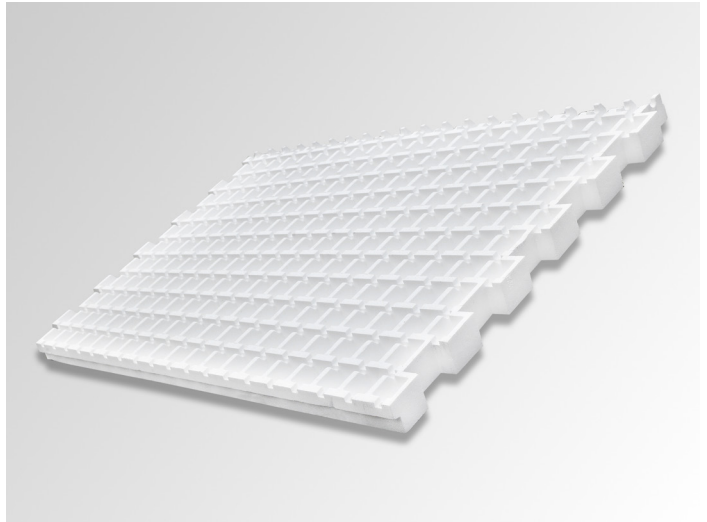


# OPTIGRÜN FKD 58SD

## Pitched Roof Board

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



<b>Material</b>	EPS (expanded polystyrene, HBCD-free)
<b>Nominal thickness</b>	Approx. 58 mm
<b>Grammage</b>	Approx. 870 g/m <sup>2</sup>
<b>Colour</b>	White
<b>Compressive strength filled</b>	Approx. 100 kN/m <sup>2</sup> with 9.5% compression
<b>Filling volume</b>	18 l/m <sup>2</sup>
<b>Substrate quantity</b>	Extensive multi layer substrate E 70/lm <sup>2</sup> , corresponds to approx. 40 mm overfilling of the panel with compression factor 1.2
<b>Water reservoir unfilled</b>	Approx. 4.3 l/m <sup>2</sup> (at 15°) up to 3.4 l/m <sup>2</sup> (at 30°)
<b>Shear load</b>	Per structurally effective abutment in flow direction = 7.0 kN
<b>Water discharge capacity (DIN EN ISO 12958)</b>	2010-08 with 20 kN/m <sup>2</sup> 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)
<b>Quantity/delivered unit</b>	Approx. 0.83 kg/panel
<b>Delivery form</b>	Approx. 33.2 m <sup>2</sup> /panel disposable pallet
<b>Pack size</b>	4 bundles of 10 panels on a disposable pallet 1,200 x 800 x 2,090 mm
<b>Coverage dimensions</b>	LxWxH 1195 x 725 x 58 mm (approx. 0.87 m <sup>2</sup> )
<b>Delivery weight</b>	LxWxH 1165 x 715 x 58 mm (approx. 0.83 m <sup>2</sup> )
<b>Special feature</b>	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°. From a roof pitch of 25°, the use of vegetation mats VFL fixing strips is required.

### 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/m<sup>2</sup> (at 15°) up to 3.4 l/m<sup>2</sup> (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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