

# Product Data Sheet

## BIOSOLAR FK25 DRAINAGE AND STORAGE BOARD

<b>1. Description</b>	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 extensive green roofs with >60mm substrate. Suitable for use on all flat roof types.
<b>2. Area of use</b>	<ul style="list-style-type: none"><li>As a drainage and storage board under extensive green roofs on flat roofs up to 5° (= 8.8%).</li></ul>
<b>3. Specific properties</b>	<ul style="list-style-type: none"><li>100% recycled HDPE.</li><li>CE-marked.</li><li>Drainage according to DIN 4095.</li><li>Safe and targeted guiding of excess water.</li><li>Depositing of water in the recesses.</li><li>Low weight.</li><li>High drainage capacity.</li><li>Recyclable.</li><li>European Technical Assessment (ETA-13/0557).</li></ul>

<b>Material</b>	Recycled HDPE
<b>Nominal thickness</b>	approx. 25mm
<b>Grammage</b>	approx. 1,350g/m <sup>2</sup>
<b>Colour</b>	black/grey
<b>Max. compressive strength unfilled</b>	approx. 200kN/m <sup>2</sup> (DIN EN ISO 25619-2) approx. 90kN/m <sup>2</sup> with 10% compression
<b>Max. compressive strength filled</b>	approx. 175kN/m <sup>2</sup> with 10% compression and 35mm overfilling
<b>Water discharge capacity (DIN EN ISO 12958)</b>	Measured at: $\sigma = 20\text{kPa}$ , soft/hard, MD, with a FIL 105 filter fleece on the upper side: i = 0.01 (=1 % roof pitch): 0.99l/(m*s) i = 0.02 (=2 % roof pitch): 1.41l/(m*s) i = 0.05 (=5 % roof pitch): 2.20l/(m*s) i = 1 (vertical): 10.03l/(m*s)
<b>Filling volume</b>	small naps facing up = approx. 14.5l/m <sup>2</sup> (surface side) large naps facing up = approx. 7.5l/m <sup>2</sup> (greening side)
<b>Water reservoir unfilled</b>	small naps facing up = approx. 3.6l/m <sup>2</sup> (surface side) large naps facing up = approx. 5.0l/m <sup>2</sup> (greening side)
<b>Reduction in foot fall sound inspected in accordance with EN ISO 10140 assessed in accordance with ISO 717-2</b>	Improvement in foot fall sound for the following layer structures: $\Delta L_w$ 33 dB RMS 950 TS, FKD 25, 40mm chippings, 40mm concrete slab. $\Delta L_w$ 35 dB EPS insulation 120 mm/150 kPa, RMS 950 TS, FKD 25, 40mm chippings, 40mm concrete slab.
<b>Quantity/delivered unit</b>	2m <sup>2</sup> /panel = 2.0 x 1.0m 700m <sup>2</sup> /disposable pallet
<b>Delivery frame</b>	700m <sup>2</sup> on disposable pallet 2.05 x 1.05m
<b>Pack size</b>	LxWxH 2,000 x 1,000 x 25mm
<b>Delivery weight</b>	approx. 2.7kg/panel approx. 970.0kg/full disposable pallet

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