

Product Data Sheet

BIOSOLAR FK25 DRAINAGE AND STORAGE BOARD

1.	Description	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 > 60 mm substrate. Suitable for use on all flat roof types.
2.	Area of use	<ul style="list-style-type: none">As a drainage and storage board under extensive green roofs on flat roofs up to 5° (= 8.8%).
3.	Specific properties	<div><ul style="list-style-type: none">100% recycled HDPECE-markedDrainage according to DIN 4095Safe and targeted guiding of excess waterDepositing of water in the recessesLow weight</div> <div><ul style="list-style-type: none">High drainage capacityRecyclableEuropean Technical Assessment (ETA-13/0557)</div>

Material	Recycled HDPE
Nominal thickness	approx. 25 mm
Grammage	approx. 1,350 g/m ²
Colour	black/grey
Max. compressive strength unfilled	approx. 200 kN/m ² (DIN EN ISO 25619-2) approx. 90 kN/m ² with 10% compression
Max. compressive strength filled	approx. 175 kN/m ² with 10% compression and 35 mm overfilling
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): 0.99 l/(m*s) i = 0.02 (=2 % roof pitch): 1.41 l/(m*s) i = 0.05 (=5 % roof pitch): 2.20 l/(m*s) i = 1 (vertical): 10.03 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)
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)
Reduction in foot fall sound inspected in accordance with EN ISO 10140 assessed in accordance with ISO 717-2	Improvement in foot fall sound for the following layer structures: ΔL_w 33 dB RMS 950 TS, FKD 25, 40 mm chippings, 40 mm concrete slab. ΔL_w 35 dB EPS insulation 120 mm/150 kPa, RMS 950 TS, FKD 25, 40 mm chippings, 40 mm concrete slab.
Quantity/delivered unit	2 m ² /panel = 2.0 x 1.0 m 700 m ² /disposable pallet
Delivery frame	700 m ² on disposable pallet 2.05 x 1.05m
Pack size	LxWxH 2,000 x 1,000 x 25 mm
Delivery weight	approx. 2.7 kg/panel - approx. 970.0 kg/full disposable pallet

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