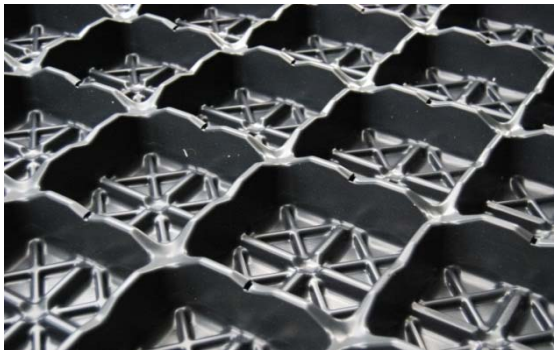
Data Sheet

OPTIGREEN® ROOF GREENING

Drainage and Storage Element FKD 60 UK-BO

Plastic panel made from deep-drawn regenerated HDPE with water storage functionality, bottom-sided vapor diffusion open channel drainage system and top-side diffusion and drainage holes.
Specially designed for use on inverted insulation.



Technical details and properties:

Material:	Recycled HDPE
Nominal thickness:	approx. 60 mm
Surface weight:	approx. 3.5 kg/m²
Colour:	black/grey

Compression strength filled: 695 kN/m² (=kPa) at 10% compression, filled flush

Fill volume (loose material): filled with drainage material Perl flush with the top edge of the element: approx. 45 l
Water storage: filled with drainage material Perl 8/16: approx. 23 l

Water dissipation capacity: Measured at: σ = 20 kPa, soft/hard, MD, with a Type 105 filter fleece on the upper side

(as per DIN EN ISO 12958)

i = 0.01 (=1 % incline):	0.578	l/(m*s)
i = 0.02 (=2 % incline):	0.833	l/(m*s)
i = 0.05 (=5 % incline):	1.356	l/(m*s)
i = 0.1 (=10 % incline):	1.944	l/(m*s)
i = 1 (vertical):	6.483	l/(m*s)

Delivery form:

Panels on pallets
Panel dimensions: approx. 2.03 x 1.03 m
Panel surface: approx. 2.095 m²

Quantity per delivery unit:

180 units = approx. 377 m²/pallet

Area of use:

- especially on inverted roofs with the claim vapor diffusion openness
- Beneath intensive green roofs with 8/16 drainage
- Beneath greened surfaces for occasional vehicular use (e.g. fire access routes, parking spaces, etc.) filled with ballast on filter layer

Processing:

- Only use for multi-layer build-ups backfilled with drainage material, flush with top edge of panel, and an overlapping layer of filter fleece
- Lay the panels with abutting edges on a suitable protective surface material
- Fill immediately with substrate after laying to protect against wind drift
- Alternatively, fill with water instead of using substrate (also recommended in summer for cooling)

(see also the Optigreen assembly and installation instructions)

Storage:

Flat, dry, protected from sunlight during extended 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 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. Errors and omissions excepted.

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