Data Sheet

OPTIGREEN® ROOF GREENING

Drainage Board Type FKD 40 (W)

Plastic panel made from deep-drawn regenerated HDPE with water storage functionality, bottom-sided canal system for drainage and drill holes for diffusion.

Technical details and properties:

Material:	Recycled HDPE
Nominal thickness:	Approx. 40 mm
Surface weight:	Approx. 2.3 kg/m^2
Colour:	Black/grey

Max. compression strength unfilled.	144 kPa (=kN/m²) at 8.4% compression strain (as per DIN EN ISO 25619-2)
Compression strength filled:	280 kN/m² at 10% compression strain and 2 cm overfill
Flammability:	Fire classification E as per DIN EN 13501- ,certified in accordance with DIN EN ISO 11925-2
Water discharge capacity: (as per DIN EN ISO 12958)	Measured at: σ = 20 kPa, soft/hard, MD, with a Type 105 filter fleece on the upper side

i = 0,01 (RP=1 %):	1.6	l/(m*s)
i = 0.02 (RP=2 %):	2.31	l/(m*s)
i = 0.05 (RP=5 %):	3.76	l/(m*s)
i = 1 (vertical):	16.64	l/(m*s)

Water storage (unfilled):	Small nipple facing up (writing legible)	Approx. 8.7 l/m²
Fill volume:	Small nipple facing up (writing legible)	Approx. 16 l/m²

Delivery form:

Panels on Euro-pallets

Panel dimensions: 2 x 1 m
Panel surface: 2 m²

Quantity per delivery unit:

600 m²/pallet, lesser amounts on request

Area of use:

Under extensive green roofs with a higher layer build-up **(**Nature roof up to 25 cm**)**
(Under intensive green roofs with a higher layer build-up **(**Garden roof up to 30 cm**)**
- Not suitable beneath surface coverings
- High drainage capacity suitable for long flow courses

Installation:

Unfilled panels with filter fleece on top and abutting edges
Filled panels overlapping by two flutes
Apply substrate immediately after installation to protect against wind drift
Alternatively, fill panels with water instead of substrate
(recommendable in summer for cooling)

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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