

OPTIGREEN WRB 80F

Water Retention Box

Lightweight, multifunctional drainage and retention panel for extensive and simple intensive green roofs. Offers a large cavity volume for a temporary water reservoir in conjunction with the Optigreen Flow Control. Integrated long-term water reservoir of 3 or 6 l/m². Delivery as a panel with 2 x 1 m, which is folded to 2 x 0.5 m to achieve the cavity volume.



*(PLEASE NOTE! The following values relate to a folded state!)

Material	Recycled HDPE
Nominal thickness	approx. 80 mm
Grammage	approx. 3.6 kg/m ²
Dimensions/ effective Dimensions	1,964 x 550 mm = 1.08 m ² / 1,964 x 520 mm = 1.02 m ²
Dimensions/folded	approx. 1,100 x 1,964 x 40 mm
Colour	black
Water discharge capacity	approx. 2.5 l/sec at 0° RP
Compressive strength (DIN ISO 25619-2)	approx. 100 kN/m ²
Usable accumulation	approx. 90.0 Vol.%
Accessories	Capillary columns (Item No. 31014)
Water reservoir	up to 72 l/m ²
Pack size	1,100 x 1,964 x 40 mm
Quantity/ delivered unit	1.08 m ² /panel = 1,964 x 0.55 m (folded) 216 m ² /disposable pallet
Delivery form	216 m ² stacked and folded on disposable pallet (2.00 x 1.10 m) (200 pieces)
Delivery weight	approx. 3.9 kg/piece approx. 800.0 kg/disposable pallet

Area of use

On flat roofs with no pitch (with the purpose of retention) to establish a thin layer of extensive sedum greening up to approx. 100 mm substrate thickness or simple intensive green roofs up to approx. 200 mm. Substrate layer thickness e.g. for more lush shrub planting.

Please note: When used under inverted insulation, no permanent water accumulation possible.

Specific properties

- 100% recycled HDPE
- Usable cavity volume for temp. water accumulation approx. 90 Vol%
- Can be stacked inside each other folded --> low transport volume
- Designed for double permanent water reservoir capacities due to connecting bridges on the underside and top. For extensive sedum greening (3 l/m²) or for shrub and grass planting (6 l/m²).
- Many openings for flooding of the internal cavity with temporary water accumulation or to guide excess water.
- Also suitable for use on inverted insulation
- Low weight
- In the event of water accumulation, can be combined with the patented flow control system and capillary columns to supply water to the vegetation base layer from the accumulation level.
- Recyclable

Accessories

Capillary columns (Item No. 31230) for installation after laying for vertical water transport from the accumulation layer to the vegetation base layer. Only sensible for planned permanent water accumulation.

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. No liability accepted for misprints.

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