

OPTIGRÜN WRB 80F

Water Retention Box

Water Retention Box made of recycled HDPE material. With high temporary and possibly permanent retention volume in combination with a Flow Control System for specific regulation of water discharge and/or water storage.



Material	Recycled HDPE
Nominal thickness	approx. 80 mm
Grammage (laying state)	approx. 3.6 kg/m ²
Colour	black
Dimensions (laying state)/panel	1,964 x 550 x 80 mm
Dimensions (open)/panel	1,964 x 1,100 x 40 mm
Compressive strength (DIN ISO 25619-2)	approx. 100 kN/m ²
Cavity volume	approx. 90 Vol. %
Retention volume	approx. 72 l/m ²
Water discharge capacity (DIN EN ISO 12958)	i = 0.01 (= 1% roof pitch): 2.5 l/(m*s)
Quantity/delivery unit	Panels Panel measurements (laying state) = 1,964 x 550 mm approx. 1.08 m ² /panel
Delivery form	Disposable pallet with 200 panels, stacked open approx. 216 m ² /pallet
Pack size	LxWxH 2.00 x 1.10 x 1.30 m
Delivery weight	approx. 3.9 kg/panel approx. 800 kg/disposable pallet

Area of use

- For the construction of retention roofs on roof areas with 0° roof pitch
- Suitable for use under extensive and semi-intensive greening
- Not suitable for use under walking or driving surfaces

Specific properties

- For temporary and/or permanent storage of rainwater with regulated water discharge through a Flow Control System
- With Capillary Columns to transport stored rainwater from the drainage level into the substrate layer and to increase evaporation (accessories)
- Flow Control-independent water storage of 3 l/m² or 6 l/m², depending on the laying side
- With freely flowable structure for quick distribution of rainwater within the retention room
- Low delivery costs due to delivery in open state, laying state folded together
- Suitable for inverted roofs (when used on inverted insulation, no permanent water storage is possible)
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions

Accessories

- Capillary Columns (2 pieces/m² extensive, 4 pieces/m² semi-intensive, according to drawing)
- Flow Control System for regulated water discharge and/or water 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 Optigrün's technical knowledge at the time of publication. Optigrün reserves the right to change and update details in accordance with new insights and to modify specified properties accordingly. No liability accepted for misprints.

Optigrün international AG

Am Birkenstock 15 – 19,
72505 Krauchenwies-Göggingen
Tel. +49 7576 772-0, Fax +49 7576 772-299, info@optigruen.de

Optigreen Limited (Service UK only)

Suite G5 Albany Chambers, 26 Bridge Road East
Welwyn Garden City (Herts), AL7 1HL
Phone +44 203 5899400, Fax +44 207 1171664, info@optigreen.co.uk

