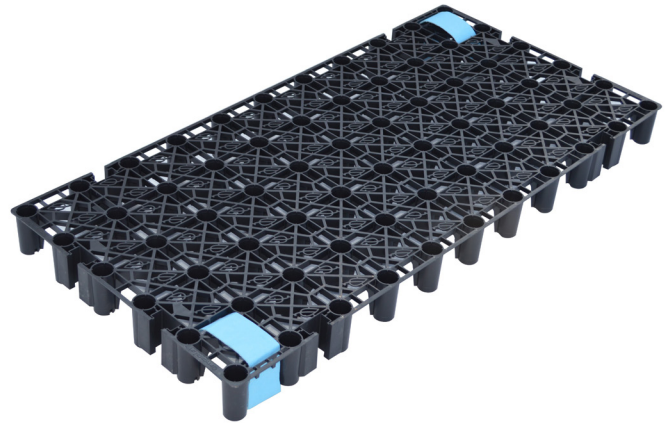


OPTIGRÜN WRB 85

Water Retention Box

Water Retention Box made of recycled PP 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 PP
Nominal thickness	approx. 85 mm
Grammage	approx. 5.7 kg/m ²
Colour	black
Compressive strength (DIN ISO 25619-2)	approx. 800 kN/m ² with 10 % compression
Cavity volume	approx. 95 Vol. %
Retention volume	approx. 80 l/m ²
Water discharge capacity (DIN EN ISO 12958)	i = 0.00 (= 0% roof pitch): 2.80 l/(m*s) i = 0.01 (= 1% roof pitch): 6.07 l/(m*s) i = 0.02 (= 2% roof pitch): 8.63 l/(m*s) i = 0.03 (= 3% roof pitch): 10.30 l/(m*s)
Quantity/delivery unit Individual elements	Measurements: 1.19 x 0.59 m approx. 0.702 m ² /individual element
Quantity/delivery unit Large format elements	Pre-assembled large format elements consisting of 4 individual elements including Capillary Bridges and 8 Connectors Measurements: 2.38 x 1.18 m approx. 2.808 m ² /large format element
Delivery form Individual elements	Disposable pallet with 48 individual elements approx. 33,696 m ² /pallet
Delivery form Large format elements	Disposable pallet with 12 large format elements approx. 33,696 m ² /pallet
Pack size Individual elements	LxWxH 1.2 x 1.2 x 2.2 m
Pack size Large format elements	LxWxH 2.4 x 1.2 x 1.2 m
Delivery weight	approx. 220 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 intensive greening and traffic areas

Specific properties

- For temporary and/or permanent storage of rainwater with regulated water discharge through a Flow Control System
- With Capillary Bridges to transport stored rainwater from the drainage level into the substrate layer and to increase evaporation (accessories)
- High compressive strength
- With freely flowable structure for quick distribution of rainwater within the retention room
- 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 Bridges (Art.-No.: 31808)
- Connectors for creating a stable joint between the Water Retention Boxes (Art.-No.: 31807)
- 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

