

OPTIGRÜN WRB 85L

Water Retention Box

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



Material	Recycled PP
Nominal thickness	approx. 85 mm
Grammage	approx. 3.0 kg/m ²
Colour	black
Compressive strength (DIN ISO 25619-2)	approx. 340 kN/m ²
Cavity volume	approx. 96 Vol. %
Water discharge capacity (DIN EN ISO 12958)	i = 0.01 (= 1% roof pitch): 4.42 l/(m*s) i = 0.02 (= 2% roof pitch): 5.98 l/(m*s) i = 0.03 (= 3% roof pitch): 7.65 l/(m*s) i = 0.05 (= 5% roof pitch): 10.39 l/(m*s)
Quantity/delivered unit	Measurements: 1.19 x 0.89 m approx. 1.053 m ² /element
Delivery form	Disposable pallet with 66 elements approx. 1.053 m ² /individual element
Pack size	LxWxH 1.2 x 0.9 x 2.2 m
Delivery weight	approx. 215 kg/disposable pallet

Area of use

- For the construction of retention roofs on roof areas with 0° roof pitch
- Suitable for use under extensive greening
- Use on insulated roof structures is only possible in accordance with the specifications of the Optigrün organigram for retention roofs

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)

Accessories

- Capillary Bridges (Art.-No.: 31808)
- Connectors for creating a stable joint between the Water Retention Boxes (Art.-No.: 31819)
- 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.

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