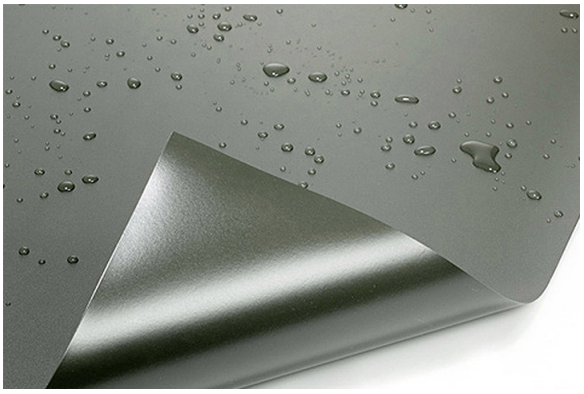
PRODUCT DATA SHEET

# OPTIGRÜN TWB 1.0

## Root Protection Membrane

For placing on non-rootproof waterproofing using the solvent welding or hot air procedure as root protection under roof greening as well as for waterproofing for ponds and water tanks.



| | |
|---|---|
| Material | PVC-P |
| Nominal thickness | Approx. 0.95 mm |
| Grammage | Approx. 1.29 kg/m² |
| Colour | Olive green |
| Resistant to bitumen | No |
| Resitant | - Up to 30°C continuous water temperature<br>- To roots and microorganisms |
| Tear strength vertically and horizontally | 17 (±2) N/mm² |
| Resistance to tear propagation vertically and horizontally | ≥ 40 kN/m |
| Elongation at break vertically and horizontally | ≥ 280 % |
| Bursting resistance | ≥ 50 % |
| Puncture resistance | 1.10 (±0.15) kN |
| Delivery weight | Approx. 51.6 kg/roll<br>Approx. 900 kg/pallet |
| Pack size | Diameter approx. 0.20 m, height approx. 2.0 m / per roll |
| Quantity/ delvieried unit | 2.0 x 20.0 m = 40.0 m² / roll<br>17 rolls = 680 m² per pallet |
| Delivery form | On a roll by forwarding agent, or on a disposable pallet 2.0 x 1.2 m |

### Area of use

- As a root barrier membrane under green roofs on roof areas with waterproofing that is not root-proof (note: not approved as waterproofing)
- As a root-proof lining for planting troughs
- As waterproofing for ponds
- As waterproofing for water tanks

### Specific properties

- Resistant up to 30°C continuous water temperature
- Optimised tensile strength and elongation at break
- High ability to bridge tears
- UV-stabilised
- Resistant to roots and microorganisms
- High ageing resistance
- Flexible at low temperatures
- Dimensionally stable
- Can be laid on a damp base
- Can be solvent-welded
- Without DEHP (DOP) plasticisers
- Not resistant to bitumen
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions

Europäische Technische Bewertung ETA ETA-13/0557 vom 8. Juli 2021
Deutsches Institut für Bautechnik DIBt

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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DEUTSCHLAND
Optigrün international AG
Am Birkenstock 15 – 19 | 72505 Krauchenwies-Göggingen
Tel. +49 7576 772-0 | info@optigruen.de

GREAT BRITAIN
Optigreen Limited
Unit 157 | Milton Keynes Business Centre
Foxhunter Drive | Linford Wood | Milton Keynes | MK14 6GD
Tel. sales@optigreen.co.uk | +44 203 589 9400

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