

# OPTIGRÜN E

## Extensive Multi Layer Substrate

Optigrün Extensive Multi Layer Substrate E is used as a vegetation base layer for extensive multi layer green roofs and in the pitched roof area, on roof areas with low load bearing capacity, structurally stabilised and suitable for wide range of plants.



<b>Material (main components)</b>	expanded shale, expanded clay, lava, pumice, crushed brick, Porlith and green waste compost. With a variable composition depending on the region.
<b>Weight when dry (compacted)</b>	min. 750 kg/m <sup>3</sup> (light version) min. 1,000 kg/m <sup>3</sup> (heavy version)
<b>Weight when saturated (compacted)</b>	1,140-1,440 kg/m <sup>3</sup> (light version) 1,320-1,680 kg/m <sup>3</sup> (heavy version)
<b>Max. water capacity</b>	≥ 35 Vol%
<b>pH value</b>	6.0 - 8.5
<b>Salt content</b>	≤ 3.5 g/l
<b>Water permeability</b>	≥ 0.6 mm/min
<b>Compaction factor</b>	1.2
<b>Organic substances</b>	< 65 g/l
<b>Total pore volume</b>	> 60 - 70 Vol%
<b>Delivery form</b>	- loose bulk on an open truck - blown into silo truck - in big bags on an open truck - In sacks on euro pallets by forwarding agent
<b>Quantity/delivered unit</b>	according to size of order

### Area of use

Vegetation base layer for extensive multi layer green roofs and in the pitched roof area > 5° roof pitch.

### Specific properties

- Fulfils the requirements of the FLL Green Roofing Guideline
- More precise information about the weight is to be requested from Optigrün based on the region of the construction scheme
- Has a European Technical Assessment (ETA-13/0557) as part of the Optigrün system solutions



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

