

OPTIGRÜN i

Intensive Substrate

Optigrün Intensive Substrate i is used as a vegetation base layer for multi layer intensive green roofs, on roof areas with low load capacity, structurally stabilised and suitable for wide range of plants.



Material (main components)	expanded shale, expanded clay, lava, pumice, crushed brick, Porlith and green waste compost. With a variable composition depending on the region.
Weight when dry (compacted)	min. 830 kg/m ³ (light version) min. 1,000 kg/m ³ (heavy version)
Weight when saturated (compacted)	1,300-1,480 kg/m ³ (light version) 1,490-1,560 kg/m ³ (heavy version)
Max. water capacity	≥ 45 Vol%
pH value	6.0 - 8.5
Salt content	≤ 2.5 g/l
Water permeability	≥ 0.3 mm/min
Compaction factor	1.3
Organic substances	< 90 g/l
Total pore volume	> 60 - 75 Vol%
Delivery form	- 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
Quantity/delivered unit	according to size of order

Area of use

- Vegetation base layer for intensive multi layer green roofs
- To fill plant containers outdoors

Specific properties

- Fulfills 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
- In some cases, the intensive substrates provided by suppliers are also suitable for lawn surfaces due to the inclusion of locally available aggregates
- 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.

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