

# OPTIGRÜN OPTIPOR 10/50 MI

## Drainage Material

Extra lightweight, pressure-resistant drainage material under intensive green roofs with or without water accumulation, for 0° - 5° roof pitch. Particularly suitable for terrain modelling with very high layer structure heights and severely restricted load reserves for the ceiling construction.



Material	foam glass gravel
Grain size	10-50 mm
Weight compacted at max. retained water	347 kg/m <sup>3</sup> / EN 12087
Weight delivered wet compacted	max. 247 kg/m <sup>3</sup>
Weight delivered wet loose	160-190 kg/m <sup>3</sup> / EN 1097-3
Fire class	A 1
Max. retained water	100 kg/m <sup>3</sup> , corresponds to approx. 10 Vol%
pH value	7.8
Water permeability	ca. 600 mm/min
Compaction factor	1.3 (with mechanical compaction)
Total pore volume	approx. 30 - 35 Vol% in spoil heap
Compressive stress following compaction	660 kN/m <sup>2</sup> with 10% compression/EN 826
Grain strength according to DIN 4262	4.0 - 6.0 N/mm <sup>2</sup>
Frost resistant according to DIN 4226	yes
Allocation value according to LAGA	Z0
Declared heat conductivity dry and compacted	$\lambda_D = 0.103 \text{ W/mK}$
Measurement value heat conductivity compressed at 50 % Retained water	$\lambda = 0.120 \text{ W/mK}$
General technical approval	DIBT Z-23.34-1390
Delivery form	- loose on an open truck from an order quantity of 50 m <sup>3</sup> - in big bag on an open truck, filling volume/big bag approx. 2 m <sup>3</sup> or approx. 3 m <sup>3</sup> .
Delivered unit	according to size of order

### Area of use

- As drainage material under intensive green roofs up to RP 5°
- As an extra lightweight substructure for terrain modelling for green roofs with very high layer structure heights and restricted load reserves
- As a lightweight base course for fitted areas, tested as an Optigreen System Solution Public Roof at Technical University of Munich  
In accordance with ZTV-Wegebau (FLL) usage category N2 and N3.

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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