


Product data sheet

Bisoroof® green roof substrate

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2011			
 <p>Bisotherm® Bisoroof®</p> <p>www.bisotherm.de Eisenbahnstraße 12 - 56218 Mülheim-Kärlich - Germany</p>			
Product description:	Bisoroof® is a system of coordinated mineral / organic plant substrate mixtures Due to its open-pore structure, high impact and storage stability, high frost resistance and its balanced relationship between water permeability and storage capacity, individual substrate requirements are met "par excellence".		
Application:	Growing medium for extensive green roofs in a single-layer design and as a drainage layer for intensive green roofs		
Composition:	Expanded silicate and lava		
Properties	Unit	Value *	according to FLL guidelines
Grain size distribution	mass-%	6	d < 0,063 mm < 20% d < 0,063 mm < 15% d < 0,063 mm < 10%
Grain size distribution	mass-%	44	d < 4 mm < 40% d < 4 mm < 50% d < 4 mm < 75%
Organic matter content	g/l	8	≤ 90 ≤ 65 ≤ 40
Water permeability mod. K _f	mm/min	221	0,3-30 0,6-70 60-400
Water storage capacity /max. water capacity	Vol.-%	29	≥ 45 ≥ 35 ≥ 20
Air capacity at max. water capacity	Vol.-%	32	≥ 10
pH Value		6,97	6,0 - 8,5
Salt content	g/l	0,2	≤ 2,5 ≤ 3,5
Nutrient content according to the examination method in CAT	CaCl ₂ mg/l CAL CAL CaCl ₂	3 21 227 10	N ≤ 80 P ₂ O ₅ ≤ 200 K ₂ O ≤ 700 Mg ≤ 200
Total pore volume	Vol.-%	61	
Compaction factor (empirical value)		1,10-1,15	
Volume weight	dry weight waterlogged	kg/m ³ kg/m ³	1030 1320
Forms of delivery	Bulk / big bag / silo / bagged		
Storage	dry if possible		

* According to the current test report