

Material: Extensive Roof Substrate
Source: Bourne Amenity Ltd
Tested Against: FLL Guidelines (2008)
Tested By: Dr. Martin Upmeier
Date Tested: 21.03.2016

Parameter	Unit	FLL Guidelines	Result	Compliance
Grain Size Distribution				
≤ 0.063mm	% weight	≤ 10	2.1	Yes
> 4.0 mm	% weight	n/a	92.8	Yes
Weight per Volume				
Dry	g/cm ³	n/a	1.00	Yes
Saturated	g/cm ³	n/a	1.26	Yes
Water / Air Conditions				
Total Pore Volume	Vol. -%	n/a	63.3	Yes
Maximum Water capacity	Vol. -%	≥ 20.0	25.8	Yes
Air content as max water capacity	Vol. -%	≥ 10.0	37.5	Yes
Hydraulic Permeability	mm/min	60 - 400	82	Yes
Ph / Salinity				
Ph value		6.0 – 8.5	7.6	Yes
Salinity (water extract)	g/l	≤ 3.5	1.97	Yes
Salinity (gypsum extract)	g/l	≤ 2.5	1.28	Yes
Organic Matter				
Organic Matter (LOI)	g/l	≤ 40	38	Yes
Available Nutrients (CAT)				
Nitrogen (N)	mg/l	≤ 80	34	Yes
Phosphorus (P)	mg/l	≤ 50	210	No
Potassium (K)	mg/l	≤ 500	944	No
Magnesium (Mg)	mg/l	≤ 200	100	Yes
Impurities				
Tiles, Glass, Ceramics	% weight	≤ 0.3	0.0	Yes
Metals, Plastics	% weight	≤ 0.1	0.0	Yes
Area Sum for plastics	cm ² / l	≤ 10	0.0	Yes