

## rooflite® extensive mc Specifications

<b>rooflite® extensive mc</b>		
A growing medium for extensive green roof systems with a separate drainage course or a synthetic drainage layer. rooflite® extensive mc is a precisely balanced blend of light weight mineral aggregates like HydRocks® or pumice and premium organic components like USCC STA approved compost complying with the following requirements:		
<b>Particle Size Distribution</b>		
Proportion of silting components < 0.063 mm	Mass %	≤ 15
Proportion of particles < 0.25 mm 60 mesh	Mass %	5 - 30
Proportion of particles < 1.00 mm 18 mesh	Mass %	10 - 50
Proportion of particles < 2.00 mm 10 mesh	Mass %	30 - 70
Proportion of particles < 3.20 mm 1/8 inch	Mass %	40 - 80
Proportion of particles < 6.30 mm 1/4 inch	Mass %	65 - 95
Proportion of particles < 9.50 mm 3/8 inch	Mass %	80 - 100
Proportion of particles < 12.50 mm 1/2 inch	Mass %	100
<b>Density Measurements</b>		
Bulk Density (dry weight basis)	g/cm <sup>3</sup>	0.70 - 0.85
Bulk Density (dry weight basis)	lb/ft <sup>3</sup>	44 - 53
Bulk Density (at max. water-holding capacity)	g/cm <sup>3</sup>	1.15 - 1.35
Bulk Density (at max. water-holding capacity)	lb/ft <sup>3</sup>	72 - 85
<b>Water/Air Measurements</b>		
Total Pore Volume	Vol. %	≥ 50
Maximum water-holding capacity	Vol. %	35 - 65
Air-filled porosity at max water-holding capacity	Vol. %	≥ 10
Water permeability (saturated hydraulic conductivity)	cm/sec	0.001 - 0.12
Water permeability (saturated hydraulic conductivity)	in/min	0.024 - 2.83
<b>pH and Salt Content</b>		
pH (in CaCl <sub>2</sub> )		6.0 - 8.5
Soluble salts (water, 1:10, m:v)	g (KCl)/L	< 3.5
<b>Organic Measurements</b>		
Organic matter content	g/L	25 - 65

<b>Nutrients</b>		
Phosphorus, P <sub>2</sub> O <sub>5</sub> (CAL)	mg/L	≤ 200
Potassium, K <sub>2</sub> O (CAL)	mg/L	≤ 700
Magnesium, Mg (CaCl <sub>2</sub> )	mg/L	≤ 200
Nitrate + Ammonium (CaCl <sub>2</sub> )	mg/L	≤ 80

**Supplier:** Please find your regional supplier at [www.rooflite.us](http://www.rooflite.us) or call 1.877.268.0017

*All values are based on compacted materials according to laboratory standards and testing methods defined by the Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V. (FLL) Landscape Development and Landscaping Research Society, Guidelines for the Planning Construction and Maintenance of Green-Roofing, Green Roofing Guideline, 2008*

*Skyland USA LLC, March 2011*

**Notes:**

*Density Measurements reflect a typical range for rooflite extensive mc. For more detailed information please refer to our region specific analysis or inquire about latest test results.*

*If Air-filled Porosity is measured instead of being determined according the FLL Green Roofing Guidelines reference value may be below 10.*

*The details contained in these specifications correspond with Skyland USA's technical knowledge at the time of publication. Skyland USA, LLC reserves the right to update and adjust performance specifications from time to time in accordance with new insight and to modify the named properties of the product.*