

rooflite[®] extensive mcl Specifications

rooflite[®] extensive mcl is a very light growing medium for extensive green roofs in multi-course construction. The material is a mixture of mineral light weight aggregates like HydRocks[®] and premium organic components complying with the following requirements:

Particle Size Distribution

Proportion of silting components (d < 0.063 mm)	Mass %	≤ 10
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Density Measurements

Bulk Density (dry weight basis)	g/cm ³	0.55 - 0.80
Bulk Density (dry weight basis)	lb/ft ³	35 - 50
Bulk Density (at max. water-holding capacity)	g/cm ³	1.05 - 1.15
Bulk Density (at max. water-holding capacity)	lb/ft ³	66 - 72

Water/Air Measurements

Total Pore Volume	Vol. %	≥ 70
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

pH and Salt Content

pH (in CaCl ₂)		6.0 - 8.5
Soluble salts (water extract)	g/L	< 3.5
Soluble salts (gypsum extract)	g/L	< 2.5

Organic Measurements

Organic matter content	g/L	< 65
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Nutrients

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

Supplier: Skyland USA LLC, phone: 1.877.268.0017, www.skylandusa.us

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

