

# rooflite<sup>®</sup> intensive Specifications

rooflite<sup>®</sup> intensive is a growing medium for intensive green roofs in multi-course construction. The material is a mixture of mineral light weight aggregates like HydRocks<sup>®</sup> and premium organic components complying with the following requirements:

## **Particle Size Distribution**

Proportion of silting components (d < 0.063 mm)	Mass %	≤ 20
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## **Density Measurements**

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

## **Water/Air Measurements**

Total Pore Volume	Vol. %	≥ 65
Maximum water-holding capacity	Vol. %	45 - 65
Air-filled porosity at max water-holding capacity	Vol. %	≥ 10
Water permeability (saturated hydraulic conductivity)	cm/sec	0.0005 – 0.05
Water permeability (saturated hydraulic conductivity)	in/min	0.0118 – 1.18

## **pH and Salt Content**

pH (in CaCl <sub>2</sub> )		6.0 - 8.5
Soluble salts (water extract)	g/L	< 2.5
Soluble salts (gypsum extract)	g/L	< 1.5

## **Organic Measurements**

Organic matter content	g/L	≤ 90
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## **Nutrients**

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:** Skyland USA LLC, phone: 1.877.268.0017, [www.skylandusa.us](http://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*