

## Specifications

Product Line:

Product:
rooflite extensive 800
800 Weight Class:
80 - 90 lb/ft <sup>3</sup>

**NOTE:**

Because rooftop gardens are living systems, Skyland USA, LLC can only guarantee their products to meet the specified properties at the time of delivery. Therefore, any claim of potential non-compliance must be at this time. All warranty claims made subsequent to the delivery of the product will not be honored.

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 these performance specification values periodically, to modify the named properties of the product in accordance with new insight and best practices, due to the availability of local materials, or special project conditions related to plant selection, nutrients requirements, or environmental conditions.

### rooflite® extensive 800

Weight Class\* 80-90 lb/ft<sup>3</sup>

A planting medium for extensive vegetative (green) roof systems with a separate drain layer, designed to retain stormwater and to promote long lasting vigorous plant growth, and which meets the requirements described in ASTM E2777-14 Standard Guide for Vegetative (Green) Roof Systems and detailed below. rooflite extensive 800 is the 80 to 90 lb/ft<sup>3</sup> fully saturated weight class of the rooflite extensive product line\*. rooflite® extensive 800 is a precisely balanced blend of carefully selected lightweight mineral aggregates and premium organic components, like USCC STA approved compost complying with the following technical and performance requirements:

**Particle Size Distribution (ASTM D422-63)**

Proportion of particles < 0.05 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 mesh	Mass %	40 - 80
Proportion of particles < 6.30 mm	1/4-inch mesh	Mass %	65 - 95
Proportion of particles < 9.50 mm	3/8-inch mesh	Mass %	80 - 100
Proportion of particles < 12.50 mm	1/2-inch mesh	Mass %	100

**Bulk Density Measurements (ASTM E2399)\***

Bulk Density dry weight basis	lb/ft <sup>3</sup>	50 - 65
Bulk Density at maximum water-holding capacity	lb/ft <sup>3</sup>	80 - 90

**Water/Air Measurements (ASTM E2399)**

Total Pore Volume	Vol. %	≥ 50
Maximum water-holding capacity	Vol. %	40 - 60
Air-filled porosity at maximum water-holding capacity	Vol. %	≥ 7
Water permeability (saturated hydraulic conductivity)	in/min	0.024 - 2.83

**pH and Salt Content**

pH (in CaCl <sub>2</sub> )		6.0 - 8.5
Soluble salts (water, 1:10, m:v)	g (KCl)/L	< 3.5

**Organic Measurements (LOI at 500°C SM 2540 G)**

Organic matter content	g/L	25 - 65
------------------------	-----	---------

**Nutrient Retention Capacity**

Cation Exchange Capacity (CEC)	meq/100 g	≥ 6
--------------------------------	-----------	-----

**Supplier**

Skyland USA, LLC - visit [www.rooflitesoil.com](http://www.rooflitesoil.com) or call 1.877.268.0017

\***rooflite extensive** is a product line that is available in different saturated weight classes. These weight classes are designed to guide you in choosing the best option for your project based on your weight requirements. Each weight class is identified by a number that corresponds to the typical weight for fully saturated media based on ASTM E2399. Depending on your specific region, the following weight classes are available for rooflite extensive:

- extensive 500: saturated weight 50-60 lb/ft<sup>3</sup>
- extensive 600: saturated weight 60-70 lb/ft<sup>3</sup>
- extensive 700: saturated weight 70-80 lb/ft<sup>3</sup>
- extensive 800: saturated weight 80-90 lb/ft<sup>3</sup>

All Density Measurements reflect typical ranges for the respective rooflite products. For more detailed information please inquire about latest test results.

©Skyland USA, LLC - January 2017