

# Technical Information Sheet



## SkyScape™ Extensive Growing Media

Item Description
Extensive Growing Medium

### Description

SkyScape Extensive Growing Media is a high-performance engineered soil, designed especially for vegetative roofs with 6.0" (25 mm) or less of growing media. Blended according to Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau (FLL) guidelines from an engineered combination of organic and inorganic components, SkyScape Growing Media is designed for highly effective water management and creates a dynamic and thriving environment for plant growth. Our proprietary blends of SkyScape Extensive Growing Media are created using regionally-sourced materials to ensure that the products used are optimal for each project's location within the USDA Hardiness Zone Map.

### Method of Application

1. SkyScape Extensive Media may be applied using blower trucks or 1.5 yd<sup>3</sup> (1.15 m<sup>3</sup>) super sacks. Application by blower truck may be requested through Holcim Estimating Services at the time of project quotation; otherwise, application by super sacks will be quoted. Application by blower truck is performed by the truck operator.
2. Install all SkyScape Drainage, Edge Flashing, and any related components, according to their application instructions.
3. Crane super sacks and bring them to hover within 3 – 5 vertical feet (0.9 – 1.5 vertical meters) of the vegetative roof area.
4. Cut the bottom of the sack using a box cutter and allow the media to deposit on the drainage materials.
5. Evenly spread the SkyScape Extensive Growing Media to the desired depth by lightly raking the media across vegetative roof area.
6. To help protect the vegetative roof system from weed contamination, install plants immediately after growing media is installed.

## Storage

- Deliver and store products in original packaging with Manufacturer’s labels and materials list intact and signed off.
- Store Products in designated weather protected areas and protected from environmental damage.
- Protect growing Media stored at ground level from contamination by other soils, pollen, airborne seeds, excessive moisture, etc., by tarping the ground where the Media will be stored prior to storing it, and by tarping over the Media.

## Shelf Life

60 days

## Clean-Up

- Gather and dispose all debris upon completion of work.
- Clean all surfaces and inspect final assembly for approval.

## Precautions

Wash hands, arms, and any exposed skin thoroughly after installation.

## LEED® Information

Post-Consumer Recycled Content: 0%  
 Post Industrial Recycled Content: 0%  
 Manufacturing Location: Varies with regional location of project

NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Typical Properties			
Property	Test Method	Value	Performance
<b>3/8"-3/16" (9.5 – 4.8) Hydrocks Rotary Kiln Expanded Clay</b>	ASTM C 29 ASTM C 127 ASTM C 127 ASTM C 136	Dry Loose Unit Weight Specific Gravity Absorption Sieve Analysis	28 lb/cf to 34 lb/cf (449 kg/m <sup>3</sup> – 545 kg/m <sup>3</sup> ) 1.12 to 1.20, SSD 25% to 33% #3/8 to 0
<b>Plant Nutrients</b>	TMECC 4.02D TMECC - Calculation TMECC - Calculation TMECC 4.05 TMECC 4.05 TMECC 5.07-A	Nitrogen Phosphorus Potassium Calcium Magnesium Organic Matter Content	>1.2% dry weight >0.50% dry weight >0.50% dry weight >0.90% dry weight >0.20% dry weight >50% dry weight
<b>Soluble Salts</b>	TMECC 4.08-A	dS/m (mmhos/cm)	<4.0
<b>Particle Size</b>	TMECC 2.02-B	% under 9.5 mm	95% or greater
<b>Stability Indicator (respirometry)</b>	TMECC 5.08-F777	CO2 Evolution (mg CO2-C/g OM/day)	<2
<b>Maturity Indicator (bioassay)</b>	TMECC 5.05-A	Percent Emergence Relative Seedling Vigor	85 % or greater

Typical Properties Continued			
Select Pathogens	US EPA Class A, 40 CFR 503.32(a)	Pass/Fail	Pass
<b>USGA Sand (5-30% by volume)</b>	<b>Sand Component</b>	<b>Particle Diameter</b>	<b>Recommendation (by weight)</b>
	Fine Gravel	2.0-3.4 mm	Not more than 3%
	Very Coarse Sand	1.0-2.0 mm	Not more than 10%
	Coarse Sand	0.5-1.0 mm	Minimum 60% Total Coarse-Medium
	Medium Sand	0.25-0.50 mm	Minimum 60% Total Coarse-Medium
	Fine Sand	0.15-0.25 mm	Not more than 20%
<b>Maximum Acceptable Weights</b>	ASTM E 2399	Saturated Density	Loose = 76 pcf wet weight Rodded = 82 pcf wet weight
		Drained Density	Loose = 42 pcf wet weight Rodded = 51 pcf wet weight
<b>Permeability</b>	ASTM D 2434	inches per hour	40 in/hr or greater
<b>Organic Matter</b>	N/A	N/A	4.0% rate or better
<b>Soil pH</b>	N/A	N/A	6.0 - 7.0
<b>Cation Exchange Capacity</b>	N/A	N/A	7.5 or better
<b>Estimated Nitrogen Release</b>	N/A	N/A	Medium or higher as tested by soil analysis
<b>Potassium</b>	N/A	N/A	
<b>Magnesium</b>	N/A	N/A	
<b>Calcium</b>	N/A	N/A	

TMECC = Test Methods for the Examination of Composting and Compost, US Department of Agriculture

Please contact Holcim Technical Services at 800-428-4511 for further information.

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