

## Layered System for Semi-Intensive Green Roofs

Product NUMBER: ML2000

### **Description:**

The Semi-Intensive Green Roof System is a vegetative roof system consisting of a drainage layer, filter layer, and water retention layer for use in semi-intensive applications. Able to fit nearly any design, this system can be used in conjunction with any roof layout since the layers can be easily cut to fit dimensional requirements on-site, including curves and various angles. These layers provide a viable foundation for the growing medium and plant materials.

The semi-intensive layered system is designed to detain and retain rain and irrigation water, while preventing root rot by allowing airflow under and up through the multilayer system. This high level of air permittivity throughout the individual layers also aids in de-energizing air flow under the system thus reducing the chance of system uplift. The underlying waterproof membrane is protected with the use of a root barrier or sacrificial layer per the membrane manufacture's requirements.



Suggested growing media depths based on plant material selection typically range from 5" to 8".

### **Layers:**

1. Water Retention Layer:
  - a. Description: Highly durable polyester blanket with anchorage points for promoting solid root structures
  - b. Installation: Do not overlap material. Install perpendicular to slope.
2. Filter layer
  - a. Description: Non-woven polypropylene
  - b. Installation: Overlap provided 3" seams. Pre-attached to the Drainage Layer
3. Drainage Layer
  - a. Description: Polypropylene woven into an entangled matrix
  - b. Installation: Do not overlap material. Install parallel to slope.

### **Storage:**

- Store components in a dry area.
- Store away from sources of ignition and extremely high temperatures.

### **Precautions:**

- Avoid prolonged exposure to sunlight, heat, sparks and open flames.
- Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

### **LEED Information:**

Post-Consumer Recycled Content and Manufacturing Locations:

- Drainage Layer                      40% ; Euclid, Ohio 44117
- Filtration Layer                      0% ; Euclid, Ohio 44117
- Water Retention Layer              Please Inquire ; Michigan City, IN 46360

### System Weight\*:

System Depth	Dry Weight	Saturated Weight	Typical Field Weights
5" Media Depth	21 lbs./ft <sup>2</sup>	31 lbs./ft <sup>2</sup>	25 lbs./ft <sup>2</sup>
6" Media Depth	25 lbs./ft <sup>2</sup>	36 lbs./ft <sup>2</sup>	29 lbs./ft <sup>2</sup>
8" Media Depth	33 lbs./ft <sup>2</sup>	47 lbs./ft <sup>2</sup>	38 lbs./ft <sup>2</sup>

\* System weights vary by region due to variances in growing media weight contact your local representative for more information.

### Packaging/Component Size:

<b>0.5" Water Retention Layer:</b>	
Thickness:	0.65" +/- 0.10"
Dimension:	90"W x 107ft.
Coverage:	800 ft <sup>2</sup>
Weight:	3.6 oz. / yd <sup>2</sup>
Packaging:	30"± dia. roll

<b>Filter Layer: pre-attached to drainage</b>	
Weight:	3 oz./yd <sup>2</sup> (0.33 oz./ft <sup>2</sup> )

<b>0.75" Drainage Layer</b>	
Thickness:	0.75"
Dimension:	48"W. x 50'L.
Coverage:	200 ft <sup>2</sup>
Weight:	16 oz./yd <sup>2</sup> (1.78 oz./ft <sup>2</sup> )
Packaging:	24"± dia. roll