

.75” Drainage Filter Layer

Product NUMBER: ML2105 – 0.75” thickness

Description:

The Columbia Green .75 inch thickness Drainage Filter Layer is designed for Intensive Vegetated Roof System to mitigate moisture and moisture vapors and promote proper drainage of the growing media. This layer comes with an adhered filter fabric and is critical to prevent ponding and to allow excess water to move across the roof surface to the nearest drain. The Drainage Filter Layer is a rolled product developed by drainage engineering experts.

The .75” Drainage Filter Layer is composed of extruded polymer woven into an entangled cusped geometric patterned matrix with heat-welded junctions. This forms a resilient structure designed to provide superior drainage of growing media in vegetative roof assemblies. Adhered filter fabric keeps the drainage clear and prevents migration of media particles. When installed with the other vegetated roof system components, the drainage layer creates air space and moisture drainage between the roof assembly and the vegetated roof vegetation.

The high permeability (94%) of the Drainage Filter Layer allows for the efficient removal of excess rain or irrigation water. The Drainage Layer does not support mold. Installation is simple and straight forward, involving only heavy duty scissors to cut to shape. Product rolls are placed on top of the root barrier or protective sheet and abutted together.

Installation

- Do not overlap material. Unroll parallel to slope. Install below media and optional retention Layer. Ensure adhered filter fabric is overlapped using the provided 3” seams.

LEED Information:

- Manufacturing Location: Euclid, Ohio 44117
- Pre-Consumer Recycled Content: 40%

Storage and Precautions:

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



Technical Data – Drainage Layer

Physical Property	Test Method	Value
Polymer		Polypropylene
Thickness		0.75 in
Weight		16.7 oz. / yd ²
Roll Width		4 ft.
Roll Length		50 ft.
Roll Diameter (When Shipped)		24”± dia. roll
Roll Coverage		200 ft ²
Roll Weight		48 ± lbs.
Permeability	ASTM E283	50 CFM
Flow Rate		≥ 10 gpm

Adhered Filter Fabric

Physical Property	Test Method	Value
Material		Non-Woven Polyester
Weight	ASTM D5261	2.1 oz. / yd ²
Thickness	ASTM D1777	14 mls
Grab Tensile	ASTM D4632	80 lbs.
Trapezoid Tear	ASTM D4533	80 lbs.
Flow Rate	ASTM D4491	250 gpm. / ft ²