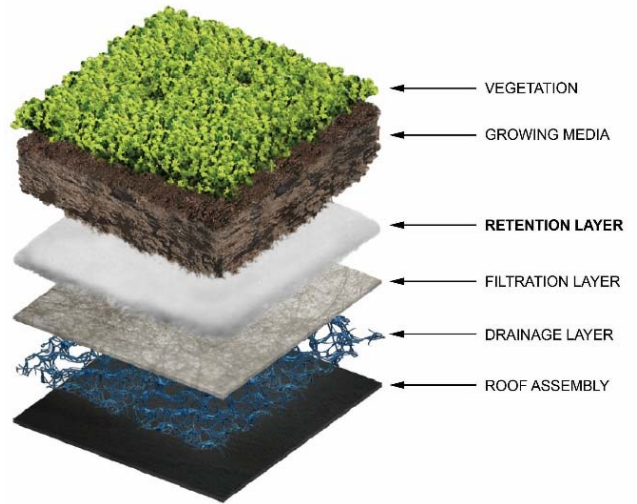


## Mineral Wool Retention Layer

### Description:

In most situations the high water holding capacity of our growing media and standard water retention layer should meet project green roof water retention goals. For projects needing to maximize storage, the Mineral Wool Retention Layer can be a good choice.

The Mineral Wool Retention Layer is a needled rockwool layer that forms a UV stable, three dimensional blanket matrix that increases the water retention ability of a green roof. The Mineral Wool Retention Layer has a 93% water retention capacity providing supplemental moisture for plants, and anchorage for plant roots. The Mineral Wool Retention Layer can be provided in 1.0 inch and 2.0 inch layer thicknesses. Installation is simple and straight forward, and the layer can be easily cut to shape.



### Water Storage Volume Calculations

- Contact Columbia Green for assistance in determining the total green roof storage volume of any of our systems  
503-327-8723 info@columbia-green.com

### Installation

- Closely align adjacent layers but do not overlap material. Install perpendicular to slope. Always install over Drainage/ Filtration Layer to provide necessary air flow/drainage.

### 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.

### Technical Data at 1.0" Thickness:

Physical Property	Value
Density	8.43 lbs/cu.ft.
Color	Off-White
Roll Width	3.28 ft/ 39.4"
Roll Length	16.4 ft/ 196.9"
Roll Coverage	53.8 ft <sup>2</sup>
Thickness	1.02 inch ( 26mm)
Dry Unit Weight - ASTM E2397	0..9 lbs/SF
Saturated Weight - ASTM E2397	5.3 lbs/SF
Storage Volume % ASTM E2397	93 % (unit weight retained water)

