

Greenroof-Roofscapes®

Barrett Roofscapes RND MW



Between the World
and The Weather
Since 1928



DESCRIPTION

Needled mineral wool is comprised of fibers of spun rock, formed into pliable mats via a mechanical process known as “needling”. These light, water-retaining fibers are an excellent rooting medium for plants.

Most pores within mineral wool are micro-pores, i.e. pores that are small enough to hold plant-available water via capillary action. These micro-pores allow mineral wool to retain more than 90% of it’s volume with water.

Mineral wool provides high ratio of saturated weight to dry weight, making it the most efficient way to retain water in a green roof. For example, retaining 3 lbs of water might require 6 lbs of green roof media, retaining 6 lbs of water requires only 1 lb of mineral wool.

Needled mineral wool provides excellent filtration properties. Needled mineral wool layer is installed below green roof media and above a traditional drainage layer, or a honeycomb detention reservoir with detention layer as dual-purpose retention and filtration material.

INSTALLATION

Install the needled mineral wool directly above the drainage, detention and/or retention layers, and directly below soil/media.

Overlap the joints of the lowest layer of needled mineral wool to provide continuous filtration, 1” minimum. If using multiple layers, orient the upper layer at 90 degrees to the lower layer. Only the lowest layer needs to overlap.

Once installed, cover immediately. The mineral wool should be installed the same day as the ballast and green roof media to prevent wind uplift.

Arrange work sequence to avoid excessive foot traffic or equipment use over the mineral wool.

Cut with sharp scissors or box cutter.

Typical installation rates: ~550 sf (~50 m²) per person-hour

MATERIAL

Natural rock, primarily basalt and slag

RETENTION CAPACITY

>90% maximum water retention per volume (ASTM E2397)

THICKNESS

1” Multiple layers may be installed as required per project stormwater calculations

DENSITY

Minimum dry density of 8 lbs/cf

ADDITIONAL FEATURES

Fibers within needled mineral wool are mechanically bound via needling. Needled mineral wool contains no carcinogenic material, especially Phenol-Formaldehyde, which is common in most other mineral wool products.

LOGISTICS

ROLL SIZE:	LENGTH	16.4 FT
	WIDTH	3.28 FT
	WEIGHT PER ROLL	48 LBS
	SHIPPING	12 ROLLS PER PALLET BOX

MAINTENANCE

Needled mineral wool requires no maintenance



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