

Ram Roofscape 2451 Drainage / Retention Mat

PRODUCT DESCRIPTION

Ram Roofscape 2451 is a composite polyethylene drainage medium and moisture retention mat consisting of a one inch high 3 dimensional core with a polypropylene geotextile filter fabric bonded to both sides of the core.

Ram Roofscape 2451 is designed to allow drainage and air flow while collecting and retaining water in the dimple reservoirs in **High Profile Greenroof-Roofscapes**.

The top geotextile fabric allows excellent water flow and acts as a soil separation layer. The fabric on the bottom has cushioning properties to provide additional protection for the membrane.

The drain mat has a 2 inch fabric tab beyond the core to provide overlaps with adjacent courses.

USES

The residual water reservoirs extend the benefit of each rainfall for greenroof plantings. **Ram Roofscape 1241** medium may be used in Greenroof-Roofscapes and roof gardens as well as other applications requiring subsurface drainage with controlled water retention properties.

PHYSICAL PROPERTIES

<u>Test</u>	<u>Method</u>	<u>Typical Results</u>
Thickness	ASTM D-1777	1. inch
Compressive Load Test	ASTM D-1621 mod.	6,000 lbs / sq ft
Flow	ASTM D-4716	21 gpm/ ft wide 0.1 gradient
Fabric Flow	ASTM D-4491	170 gpm / sq ft
Grab Tensile	ASTM D- 4632	110 lbs
Fungus Resistance	ASTM G-21	No growth, passed.
Puncture resistance	ASTM D-4833	70 lbs
Water Retention		21 cu. in / sf

INSTALLATION

Starting at the low points, apply water retention mat over secondary root barrier, with open reservoir cups oriented in upward position. At the side laps, glue or tape fabric overlap 2 feet on centers with 2 inch overlap over the previously installed material. End laps are installed by pulling back the fabric 6 inches, nesting the next roll of material into the exposed 6 inch lap, replacing the 6 inch fabric flap, taping it in place and proceeding with installation. Temporary ballast may be used to keep drainage course in place until overburden is installed.

Barrett hopes the information given here will be helpful. It is based on our best knowledge and is believed to be true and accurate. Properties given are typical values and are not specifications unless otherwise stated. We assume no responsibility for the use of these statements, recommendations or suggestions, nor do we intend them as a recommendation for any use not expressly stated herein.