

ROOF GARDEN

GN300 Moisture Retention Mat



Overview

Carlisle's GN300 Moisture Retention Mat is a nominal 12 oz/yd², 145-mil (3.68 mm) mat composed of needle-punched, nonwoven polyester. GN300 Moisture Retention Mat is made of 100% post-consumer recycled materials, and is designed to hold large quantities of water while still allowing excess water to flow and filter through it.

Features and Benefits

- » Fast and easy to install
- » Retains water for green roof and cool roof applications
- » Acts as a filter fabric, preventing small media particles from entering the drainage layer
- » 100% post-consumer recycled

Installation

Hoist Carlisle's GN300 Moisture Retention Mat to the roof. Unroll mat and allow minimum of 2" (50 mm) overlap between sections.

Review Carlisle specifications and details for complete installation information.

Typical Properties and Characteristics

Property	Test Method	GN 300
Width (ft)		15
Length (ft)		300
Thickness (mils)	ASTM D1777	145
Weight (oz/yd ² , min.)	ASTM D3776	12
Grab Strength (lbs)	ASTM D4632	300
Elongation (%)	ASTM D4632	50
Trapezoid Tear (lbs)	ASTM D4533	115
Mullen Burst (psi)	ASTM D3786	580
Puncture Strength (lbs)	ASTM D4833	175
AOS (U.S. Sieve Size)	ASTM D751	100
Permittivity (sec ⁻¹)	ASTM D4491	1
Water Flow Rate (gpm/ft ²)	ASTM D4491	75
UV Resistance (%)	ASTM D4355	70
Water Retention (gal/ft ²)	ASTM F726-06	0.12

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	100%
Manufacturing Location	Bedford, MA
Solar Reflectance Index (SRI)	N/A

Packaging

Roll Size	Sheet Size	Weight
15' x 300'	4500 ft ² (418 m ²)	400 lbs (181 kg)