

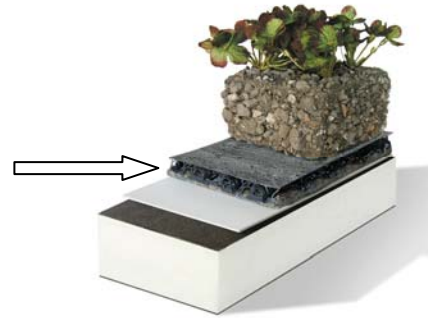


Product Data Sheet

GardenScapes™ Drainage Mat

Description

A new generation designed specifically for vegetated roofs. This multi-function composite consists of a 50% post-industrial recycled polypropylene drainage core of fused, entangled filaments and a 2-in-1 water retention and separation fabric bonded to one side. The entangled filaments are molded into a square waffle pattern that maintains a flexible design. The composite water retention/separation fabric consists of a non-woven geotextile made from recycled polypropylene. It acts as a separation layer yet also has a water storage capacity of 4 l/m². It's a very strong, durable composite that is extremely resistant to puncture and tearing. The composite is inert to biological degradation and naturally encountered chemicals, alkalis, and acids. This product used in a garden roof can help contribute to LEED points by reducing storm water runoff, heat islands and energy consumption.



Advantages

- Excellent durability
- Protects waterproofing during/after placing of growing media
- Conforms to irregular surfaces vs rigid “egg carton” panels
- Waffle design creates open flow path — even during loading of planting media
- Long rolls reduce installation costs by reducing butt seams and eliminating interlocking. Lays very flat upon installation
- Recycled content polymer in core contributes to LEED points
- Provides water holding capacity
- Reduces runoff volume in green roof applications
- 3” fabric overlap flap for complete filter protection
- Lightweight – lighter than most comparable products
- Excellent dimensional stability.
- Easy to handle and install – Because it’s lightweight and easily cut in the field, it simplifies handling and reduces the chances of damage during on-the-job installations.

Uses

- Designed as a drainage mat for Extensive green roof applications.
- Typically specified for use over (waterproofing membrane) structural solid wood and metal decks having a slope of a minimum 1/4" p/ft. Slopes must be suitable for the type of system specified.
- Can be installed in new construction and reroofing situations for commercial, industrial and residential applications.

Technical Data - Physical Properties

Property	English Units
Core Material	Recycled Polypropylene
Total Thickness	0.60 in
Total Weight (avg.)	36.0 oz/ yd ²
Core Thickness	0.40 in
Core Weight (avg)	16.0 oz/ yd ²

Flow Rates

Pressure	1.0 Gradient	0.1 Gradient
1000 psf	23.0 gal/min/ft	6.9 gal/min/ft

Polymer

Property

Polypropylene has excellent resistance to organic solvents, degreasing agents, acids, and alkaline. It has tensile strength superior to high density polyethylene and has a low moisture absorption rate. It is resistant to staining, and is very light weight.

Limitations

- Do not leave exposed to potentially poor weather conditions or damage caused by negligence.
- This product should be used only in strict accordance with recommended uses and application instructions.
- Storage. Factory-applied packaging is intended only for protection during transit. When stored outdoors or on the job site, rolls should be stored on pallets at least four inches above ground level and completely covered with a weatherproof covering (tarpaulin).
- Do not install if any component shows signs of damage.
- Use only certified growing medium for garden roof installations.
- Avoid the use of pesticides or fertilizers unless previously approved.
- Use caution with sharp objects during installation of mat or growing medium and repair any areas damaged by transport or installation prior to applying growing medium.

Technical Data – Water Retention/Separation Fabric Properties

Property	English Units	Test Method
Core Material	Recycled Polypropylene	
Color:	Grey	
Total Thickness	0.30 in	
Total Weight (avg.)	15.0 oz/ yd ²	ASTM D 5261

Technical Data – Filter Fabric Properties

Property	English Units	Test Method
Core Material	Polymer PA6 & PET	
Color:	Grey	
Total Weight (avg.)	3.54 oz/ yd ²	ASTM D 5261
Puncture Strength	35.0 lbs	ASTM D 4833
Flow Rate	185.0 gal/sec/m ²	ASTM D 4491
Permittivity	2.5 sec ⁻¹	ASTM D 4491

Packaging

Property	English Units	Metric Units
Core Width	48.0 in	121.9 cm
Length	50 ft	15.2 m
Area	22.2 yd ² (200.0 ft ²)	18.6 m ²
Roll Diameter	27.0 in	68.6 cm
Gross Roll Weight	58.0 lbs	26.4 kg