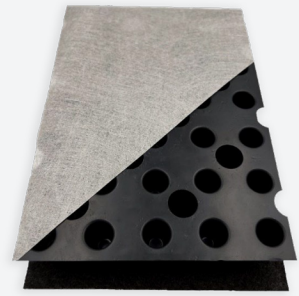


ParaGREEN™ Drainage and Water Retention Mat

Dual-Component Prefabricated Sheet Drain and Water Retention Mat



Description:

ParaGREEN™ Drainage and Water Retention Mat is a dual-component, prefabricated sheet drain and water retention mat. It consists of a formed polypropylene core covered with a white nonwoven spun bound polypropylene fabric on the top side and a black nonwoven needle punched fabric on the bottom side. Contact Siplast for information on approved product uses.

Features and Benefits:

- Provides durability, moisture resistance, and longevity
- Enhances drainage capabilities to help allow for efficient water flow
- Easy installation helps save on time and labor
- Retains water, making it available for long term use by plant material, reducing irrigation demand
- Core incorporates perforations to provide aeration to the bottom of the media profile

Typical Physical Property Data:

Typical Properties	Values/Unit	Test Method
Fabric Properties		
Material	Polypropylene	
Grab Tensile Strength	150 lb.	ASTM D4632
CBR Puncture	295 lb.	ASTM D6241
Water Flow Rate	70 gpm/ft. ²	ASTM D4491
Apparent Opening Size	80 sieve	ASTM D4751
Core Properties		
Material	High Impact Polystyrene	
Thickness	1 in.	ASTM D5199
Compressive Strength	9,500 psf	ASTM D6364
Water Retention	0.08 gal/ft. ²	ASTM E2398
In-Plane Flow Rate*	80 gpm/ft.	ASTM D4716
Product Properties		
Roll Size	4 ft. x 50 ft. (0.92 m x 15.24 m)	
Coverage	150 ft. ² (14 m ²)	

*In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

Application:

- Install with the white filter fabric side up
- ParaGREEN™ Filler Fabric may also be required at horizontal to vertical transitions
- Refer to installation manual for detailed application instructions

Storage and Handling:

- All Siplast ParaGREEN™ products should be stored on a clean, flat surface.
- All roofing products should be stored in a dry place out of direct exposure to the elements and should not be double stacked.
- Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.
- See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Packaging:

- Pallet: 68 in. x 68 in. (2073 cm x 2073 cm)
- Weight Per Roll: 40 lb. (18 kg)
- Rolls Per Pallet: 18

Ordering Information:

ParaGREEN™ Drainage and Water Retention Mat is available in rolls. For pricing and availability, contact Siplast customer service at the regional emails listed below:

- **Southeast:** southeast@siplast.com
- **Northeast:** northeast@siplast.com
- **West:** mountainpacific@siplast.com

LEED Information:

Recycled Content (% by weight)		Manufacture Location
Core	77%	Monroe, NC
Filter Fabric	10%	Monroe, NC

PRODUCT			PARAGREEN™ DRAINAGE AND WATER RETENTION MAT
Physical Properties¹	Test Method	Units of Measure	Typical Values
GEOTEXTILE - TOP SIDE			
Material²			PP, SBNW
Grab Tensile Strength	ASTM D4632	lb.	150
		N	667
Grab Elongation	ASTM D4632	%	50
CBR Puncture	ASTM D6241	lb.	295
		N	1,312
Trapezoidal Tear	ASTM D4533	lb.	60
		N	290
UV Resistance	ASTM D4355	% / 500 Hrs	70
Apparent Opening Size (AOS)³	ASTM D4751	sieve	80
		mm	0.180
Permittivity	ASTM D4491	sec⁻¹	1.0
Water Flow Rate	ASTM D4491	gpm/ft.²	70
		Lpm/m²	2,853
CORE			
Compressive Strength	ASTM D6364 / ASTM D1621	psf	9,500
		kPa	455
Thickness	ASTM D5199	in.	1
		mm	25.4
In-Plane Flow Rate⁴ Hydraulic Gradient = 1.0	ASTM D4716	gpm/ft.	80
		Lpm/m	933
In-Plane Flow Rate⁴ Hydraulic Gradient = 0.1	ASTM D4716	gpm/ft.	21
		Lpm/m	260
Water Storage Capacity	ASTM E2398	gal/ft.²	0.08
		L/m²	3.3
Perforation Open Area	CALCULATED	in²/ft.²	8.7
		mm²/m²	60,400
GEOTEXTILE - BOTTOM SIDE			
Material²			PP, NPNW
Grab Tensile Strength	ASTM D4632	lb.	100
		N	445
COMPOSITE			
Recycled Content⁵	CALCULATED	%	>50
Roll Size	MEASURED	ft.	3 x 50
Roll Weight⁶	MEASURED	lb.	40

¹Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D4439.

²PP = Polypropylene; NPNW = Needle-Punched Nonwoven; SBNW = Spunbonded Nonwoven

³AOS value listed is Maximum Average Roll Value

⁴In-plane flow rate measured under 3,600 psf (172 kPa) compressive load at referenced hydraulic gradient.

⁵Pre-Consumer recycled content by weight

⁶Approximate packaged roll weight.