

Sealogreen 50, 100

Roof Garden Drainage Mat



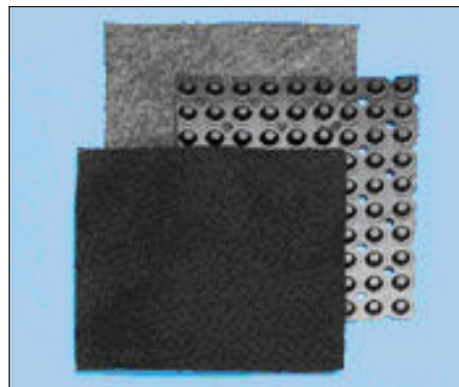
Commercial Product Data Sheet

Description

Sealogreen is a composite mat made of a layer of polypropylene geofabric as the bottom layer, a layer of perforated polypropylene dimple board as the center layer and top layer of copper hydroxide-impregnated geofabric. This top layer is designed to create a root barrier from the plantings above to the system below. Sealogreen is laid below the growing medium to feed the plant life with moisture during periods of little or no rainfall. The advantage of this system is that the soil in the root layer is never saturated, which prevents root rot and furthermore, provides aeration to the soil promoting healthy plant growth.

The Sealogreen Roof Garden System is used to provide drainage in the design of green roofs. The Sealogreen System provides the following important properties for successful roof design:

- Provides good drainage to eliminate root rot
- Includes a root barrier to protect against damage from roots
- Incorporates water retention cups to provide necessary moisture vital to plant health
- Provides protection against physical damage to the waterproofing layer



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GEOTEXTILE PROPERTIES	SEALOGREEN 50	SEALOGREEN 100
Material	Polypropylene	Polypropylene
Fabric	Needle-punch, non-woven	Needle-punch, non-woven
Weight	5.6 oz./ft ² 195 gm/m ²	5.6 oz./ft ² 195 gm/m ²
Root Barrier Coating	Copper Hydroxide	Copper Hydroxide
Water Flow Rate	20 gpm/ft ²	23 gpm/ft ²

CORE PROPERTIES	SEALOGREEN 50	SEALOGREEN 100
Material	High Impact Polystyrene	High Impact Polystyrene
Thickness	.44"	1.0"
Compressive Strength	15,000 psf	9,000 psf
Root Barrier Coating	Copper Hydroxide	Copper Hydroxide
Water Storage Capacity	0.06 gal./sq. ft.	0.11 gal./sq. ft.
Perforation Open Area	3.0 sq. inches/sq. ft.	8.7 sq. inches/sq. ft.
Horizontal Flow Rate Gradient=1.0	16 gpm/ft	80 gpm/ft
Horizontal Flow Rate Gradient=0.1	6 gpm/ft	21 gpm/ft
Recycled Content	57%	68%

DIMENSIONS AND WEIGHTS	SEALOGREEN 50	SEALOGREEN 100
Roll Size	4' x 50'	3' x 100'
Roll Weight	40 lbs.	88 lbs.

CHARACTERISTIC	EXTENSIVE GREEN ROOF SEALOGREEN 50	INTENSIVE GREEN ROOF SEALOGREEN 100
Soil Depth	Minimum 1-5"	Minimum 12"
Drainage	Simple Irrigation/Drainage	Complex Irrigation/Drainage
Vegetation	Ground cover, grasses	Large plants, shrubs, trees
Load	Adds 12-50 lbs./sq. ft.	Adds 80-100 lbs./sq. ft.
Access	Not designed for public access	Regular access
Maintenance	Low. Add plants annually until filled in	Significant

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Vegetation	Ground cover and grasses	Large plants, shrubs and trees
Load	Adds 12-50 lbs./sq.ft.	Adds 80-150 lbs/sq. ft.
Access	Not designed for public access	Regular access
Maintenance	Low: Add plants annually until filled in	Significant

Ed. May 2015