SOPRANATURE® GEONET

Heavy-Duty, Geonet Drain Core with Filter Fabric

APPLICATIONS

VEGETATED

PRODUCT DATA SHEET PDS10332 - REV 240515

PRODUCT NUMBERS:

- W862 - **75 x 4 ft (22.86 x 1.22 m) - Mat**

DESCRIPTION & FEATURES:

SOPRANATURE GEONET is composed of a high-density polyethylene geonet drainage core heat fused to a non-woven filter fabric on each side. The integrated core and fabric system optimizes drainage channel consistency, minimizing soil particle intrusion for maximum flow capacity, allowing water to freely enter the drainage channel. **SOPRANATURE GEONET** may be used as a drainage layer in planters, vegetated roof systems and under concrete slabs.

- Non-woven fabric layer filters out dirt & sand particles to provide a free flowing drainage system
- Multi-directional flow design allows for a continuous path for water discharge
- Heavy-duty polyethylene core provides high compressive strengths for demanding applications and heavy loads
- Efficient, cost effective way to provide sub-surface drainage

APPLICATION:

Unroll **SOPRANATURE GEONET** and cut to the desired length. Ensure fabric is adhered at all joints and fold any excess fabric at ends under the core.

Refer to SOPREMA's published technical literature for additional details and application requirements.

STORAGE:

Store rolls in an upright position to prevent damage, do not double stack pallets. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. Ballast down during installation to prevent loss of product.

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

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TECHNICAL INFORMATION & TESTING:

DRAINAGE CORE		
PROPERTY	**VALUE**	**ASTM**
Material	High-density polyethylene	-
Thickness, in (mm)	0.25 (6.35)	D1777
Compressive strength, psf (kPa)	>40,000 (1,915.0)	D1621
Core flow, Q @ 3600 psf and hydraulic gradient 1, gpm/ft/width (L/min/m)	8.5 (106)	D4716

FILTER FABRIC			
PROPERTY	**TOP SIDE**	**BOTTOM SIDE**	**ASTM**
Material	Polypropylene and polyester		-
Fabric weight, oz/yd² (g/m²)	4.0 (135.6)	6.0 (203.4)	D5261
Flow rate, gal/min/ft² (l/min/m²)	140.0 (5,704.0)	110.0 (4,481.8)	D4491
Puncture strength, lbs (kN)	65 (0.29)	95 (0.42)	D4833
AOS, max average	70 US Sieve (0.21 mm)	70 US Sieve (0.21 mm)	D4751
Grab strength, lbs (kN)	120 (0.53)	160 (0.71)	D4632
Grab elongation, %	60	50	D4632
U.V. resistance @ 500 hours, %	70	70	D4355
Trapezoid tear strength, lbs (kN)	45 (0.20)	65 (0.29)	D4533
Permittivity	1.9 sec -1	1.5 sec -1	D4491
Permeability, cm/sec	0.21	0.21	D4491
Mullen burst, psi (kPa)	210 (1,447.9)	315 (2,171.8)	D3786

DIMENSION & MASS	
PROPERTY	**VALUE**
Length, ft (m)	75 (22.86)
Width, in (m)	4 (1.22)
Coverage, ft² (m²)	300 (27.9)
Weight, lb (kg)	70 (31.8)
Rolls per pallet	9
Pallet weight, lb (kg)	671 (304.4)
Thickness, in (mm)	0.25 (6.35)

Data is represented by average values, unless noted otherwise.