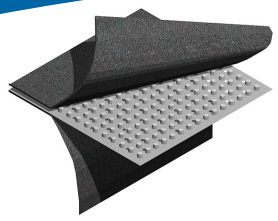
SITEDRAIN™ Sheet DS-450 Series

PREFABRICATED SHEET DRAINS

americanwick.com



PRODUCT OVERVIEW

SITEDRAIN Sheet DS-450 Series prefabricated drains are constructed using a high strength, high flow capacity, formed, perforated, polystyrene drainage core with a nonwoven filter fabric. The filter fabric is bonded to both sides of the core and prevents soil intrusion into the flow channel while allowing water to freely enter the drain core from two sides.

SITEDRAIN Sheet DS-450 products offer a compressive strength and flow capacity that is significantly higher than geonet products, making it the ideal choice for high stress applications. SITEDRAIN DS-450 Series is available with filter fabrics meeting AASHTO M 288-06 specifications.

Typical Property Values	ASTM Test Method	Unit of Measure	DS-450	DS-454	DS-456	DS-458
FABRIC						
Material [1]			PP	PP	PP	PP
Water Flow Rate	D-4491	gpm/ft^2	190	150	110	90
		Lpm/m^2	7,743	6,113	4,483	3,668
Grab Tensile Strength	D-4632	lbs	90	130	160	205
		N	400	578	712	912
Puncture Resistance	D-4833	lbs	35	75	90	120
		N	156	334	400	534
Apparent Opening Size	D-4751	sieve	50	70	70	80
		mm	0.297	0.210	0.210	0.177
Permittivity	D-4491	sec^{-1}	2.8	2.1	1.8	1.3
Grab Elongation	D-4632	%	65	70	70	70
UV Resistance	D-4355	% / 500 Hrs	70	70	70	70
AASHTO M 288-06 [2]	Survivability	-	-	Class 3	Class 2	Class 1
CORE						
Material [1]			HIPS	HIPS	HIPS	HIPS
Thickness	D-1777	in	.25	.25	.25	.25
		mm	6.35	6.35	6.35	6.35
Compressive Strength	D-1621	psf	45,000	45,000	45,000	45,000
		kPA	2,155	2,155	2,155	2,155
Flow Rate [3]	D-4716	gpm/ft	13	13	13	13
		Lpm/m	161	161	161	161

1 - PP = Polypropylene; HIPS = High Impact Polystyrene

2 - AASHTO Designation: M 288-06 Standard Specification for Highway Applications; American Association of State Highway and Transportation Officials, 2006. Geotextile survivability classification from installation stresses in subsurface drainage applications.

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

AWD
AMERICAN WICK DRAIN

1209 Airport Road, Monroe, NC 28110
TF 800.242.WICK • PH 704.238.9200
FX 704.238.0220 • info@americanwick.com

RECYCLED CONTENT