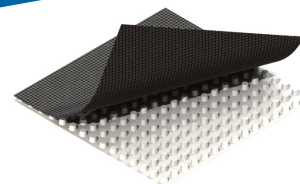


SITEDRAIN™ SHEET 450 SERIES

PREFABRICATED SHEET DRAINS

americanwick.com



PRODUCT OVERVIEW

SITEDRAIN Sheet 450 Series prefabricated drains are constructed using a high strength, high flow capacity, formed polystyrene drainage core with a nonwoven, spun-bonded or woven filter fabric bonded to one side. The filter fabric is securely bonded to each dimple and prevents soil intrusion into the flow channel while allowing water to freely enter the drain core from one side.

SITEDRAIN Sheet 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 450 Series is available with filter fabrics meeting AASHTO M 288-06 specifications.

Typical Property Values	ASTM Test Method	Unit of Measure	450	454	456	458	454-T	456-W
FABRIC								
Material ¹			PP	PP	PP	PP	PP	PP
Water Flow Rate	D-4491	gpm/ft ²	190	150	110	90	80	160
		Lpm/m ²	7,743	6,113	4,483	3,668	3,260	6,520
Grab Tensile Strength	D-4632	lbs	90	130	160	205	145	410 x 220
		N	400	578	712	912	645	1,824 x 979
Puncture Resistance	D-4833	lbs	35	75	90	120	50	105
		N	156	334	400	534	222	467
Apparent Opening Size	D-4751	sieve	50	70	70	80	80	45
		mm	0.297	0.210	0.210	0.177	0.177	0.354
Permittivity	D-4491	sec ⁻¹	2.8	2.1	1.8	1.3	1.0	2.3
Grab Elongation	D-4632	%	65	70	70	70	60	15
UV Resistance	D-4355	% / 500 Hrs	70	70	70	70	70	90
AASHTO M 288-06 ²	Survivability	-	-	Class 3	Class 2	Class 1	Class 3	Class 2 & 3
CORE								
Material ¹			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Thickness	D-1777	in	.25	.25	.25	.25	.25	.25
		mm	6.35	6.35	6.35	6.35	6.35	6.35
Compressive Strength	D-1621	psf	45,000	45,000	45,000	45,000	45,000	45,000
		kPA	2,155	2,155	2,155	2,155	2,155	2,155
Flow Rate ³	D-4716	gpm/ft	13	13	13	13	13	13
		Lpm/m	161	161	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.