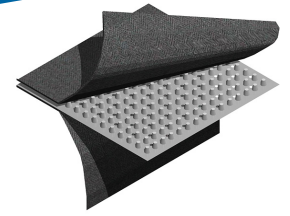


SITEDRAIN™ DS-180 SERIES

PREFABRICATED SHEET DRAINS

americanwick.com



PRODUCT OVERVIEW

SITEDRAIN DS-180 Series prefabricated drains are constructed using a perforated, high strength, high flow capacity, formed polystyrene drainage core with a nonwoven, spun-bonded or woven filter fabric bonded to both sides. The filter fabric prevents soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides.

SITEDRAIN DS-180 products are designed for subsurface, double-sided drainage applications requiring a high compressive strength and flow capacity. SITEDRAIN Sheet 180 is available with filter fabrics meeting AASHTO M 288-06 specifications.

Typical Property Values	ASTM Test Method	Unit of Measure	DS-180	DS-184	DS-186	DS-188
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	.44	.44	.44	.44
		mm	11	11	11	11
Compressive Strength	D-1621	psf	18,000	18,000	18,000	18,000
		kPa	862	862	862	862
Flow Rate ³	D-4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261
<p>1 - PP = Polypropylene; HIPS = High Impact Polystyrene</p> <p>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.</p> <p>3 - In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.</p>						