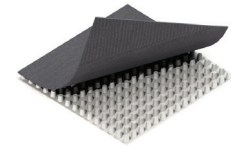


# SITEDRAIN™ SHEET 180 SERIES

## PREFABRICATED SHEET DRAINS

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### PRODUCT OVERVIEW

SITEDRAIN Sheet 180 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. The filter fabric is bonded to each dimple to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from one side.

SITEDRAIN Sheet 180 products are designed for subsurface, single-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	180	184	186	188	184-T	186-W
<b>FABRIC</b>								
Material <sup>1</sup>			PP	PP	PP	PP	PP	PP
Water Flow Rate	D-4491	gpm/ft <sup>2</sup>	190	150	110	90	80	160
		Lpm/m <sup>2</sup>	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 <sup>-1</sup>	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 <sup>2</sup>	Survivability	-	-	Class 3	Class 2	Class 1	Class 3	Class 2 & 3
<b>CORE</b>								
Material <sup>1</sup>			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Thickness	D-1777	in	.44	.44	.44	.44	.44	.44
		mm	11	11	11	11	11	11
Compressive Strength	D-1621	psf	18,000	18,000	18,000	18,000	18,000	18,000
		kPA	862	862	862	862	862	862
Flow Rate <sup>3</sup>	D-4716	gpm/ft	21	21	21	21	21	21
		Lpm/m	261	261	261	261	261	261

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.