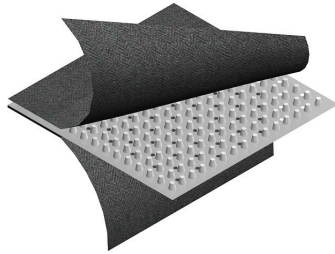


SITEDRAIN™ DS-180 SERIES

PREFABRICATED SHEET DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-180 Series geocomposite sheet drain products are composed of a dimpled polymeric perforated core with a geotextile bonded to both sides. The geotextile allows water to pass through while retaining backfill materials. The perforated core allows water collection from both sides and provides a continuous flow path to designated drainage exits.

SITEDRAIN DS-180 Series products provide an economical solution for double-sided subsurface drainage applications requiring low strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	DS-183	DS-184	DS-186	DS-188
GEOTEXTILE						
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	195	245
		N	445	601	867	1,090
Grab Elongation	ASTM D4632	%	70	60	60	60
CBR Puncture	ASTM D6241	lbs	305	365	505	580
		N	1,356	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	85	100
		N	222	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70
Apparent Opening Size (AOS) ³	ASTM D4751	sieve	70	70	70	80
		mm	0.212	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.7	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft ²	165	175	155	135
		Lpm / m ²	6,724	7,130	6,315	5,501
CORE						
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	18,000	18,000	18,000
		kPa	862	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	11	11	11	11
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261
COMPOSITE						
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.

² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament; SBNW = Spunbonded Nonwoven

³ Values for AOS represent Maximum Average Roll Value (MaxARV).

⁴ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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