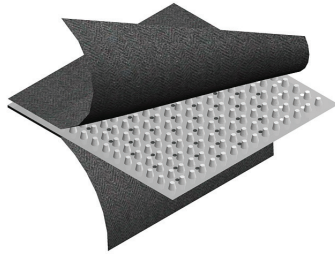


# SITEDRAIN™ DS-90 SERIES

## PREFABRICATED SHEET DRAIN



### PRODUCT OVERVIEW

SITEDRAIN DS-90 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-90 Series products provide an economical solution for double-sided subsurface drainage applications requiring moderate strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY <sup>1</sup>	TEST METHOD	UNIT OF MEASURE	DS-93	DS-94	DS-96	DS-98
<b>GEOTEXTILE</b>						
Material <sup>2</sup>			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) <sup>3</sup>	ASTM D4751	sieve	70	70	70	80
		mm	0.212	0.212	0.212	0.180
Permittivity	ASTM D4491	sec <sup>-1</sup>	2.7	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft <sup>2</sup>	165	175	155	135
		Lpm / m <sup>2</sup>	6,724	7,130	6,315	5,501
<b>CORE</b>						
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000	9,000
		kPa	431	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35
In-Plane Flow Rate <sup>4</sup>	ASTM D4716	gpm/ft	12	12	12	12
		Lpm/m	149	149	149	149
<b>COMPOSITE</b>						
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50

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

<sup>2</sup> PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament; SBNW = Spunbonded Nonwoven

<sup>3</sup> Values for AOS represent Maximum Average Roll Value (MaxARV).

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

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