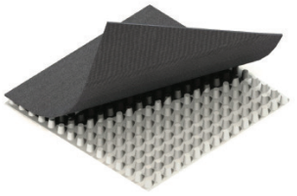
SITEDRAIN™ SHEET 183

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 183 geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side. The geotextile allows water to pass through while retaining backfill materials. The solid core allows water collection from one side and provides a continuous flow path to designated drainage exits.

SITEDRAIN Sheet 183 is an economical solution for single-sided subsurface drainage applications requiring high strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	46	10090	

[1] Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) 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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