SITEDRAIN™ C-90 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-90 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. The geotextile allows water to pass through while retaining backfill materials. The perforated core allows water collection from all sides and provides a continuous flow path to designated drainage exits.

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

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	C-94	C-96	C-98
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	195	245
		N	601	867	1,090
Grab Elongation	ASTM D4632	%	60	60	60
CBR Puncture	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80
		mm	0.212	0.212	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	175	155	135
		Lpm / m^2	7,130	6,315	5,501
CORE					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000
		kPa	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25
		mm	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	12	12
		Lpm/m	149	149	149
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			24 x 100	24 x 100	24 x 100

[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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