

SITEDRAIN™ C-90 SERIES

PREFABRICATED CHIMNEY DRAINS

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PRODUCT OVERVIEW

SITEDRAIN C-90 Series prefabricated chimney drains are constructed by fully wrapping a moderate strength, moderate flow capacity, formed polystyrene core with a nonwoven filter fabric. The filter fabric is bonded to the core to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from one side.

SITEDRAIN C-90 chimney drains are available in 12", 16" and 24" widths and provide a time saving, effective drainage solution for reducing hydrostatic pressure against retaining walls where full wall coverage is not required or is not feasible. SITEDRAIN C-90 is available with filter fabrics meeting AASHTO M-288-06 specifications.

Typical Property Values	ASTM Test Method	Unit of Measure	C-90	C-94	C-96	C-98
FABRIC						
Material ¹			PP	PP	PP	PP
Water Flow Rate	D-4491	gpm/ft ²	150	150	110	90
		Lpm/m ²	6113	6,113	4,483	3,668
Grab Tensile Strength	D-4632	lbs	115	130	160	205
		N	512	578	712	912
Puncture Resistance	D-4833	lbs	70	75	90	120
		N	311	334	400	534
Apparent Opening Size	D-4751	sieve	70	70	70	80
		mm	0.210	0.210	0.210	0.177
Permittivity	D-4491	sec ⁻¹	2.2	2.1	1.8	1.3
Grab Elongation	D-4632	%	70	70	70	70
UV Resistance	D-4355	% / 500 Hrs	70	70	70	70
AASHTO M 288-06 ²	Survivability	-		Class 3	Class 2	Class 1
CORE						
Material ¹			HIPS	HIPS	HIPS	HIPS
Thickness	D-1777	in	.25	.25	.25	.25
		mm	6.35	6.35	6.35	6.35
Compressive Strength	D-1621	psf	9,000	9,000	9,000	9,000
		kPA	431	431	431	431
Flow Rate ³	D-4716	gpm/ft	12.5	12.5	12.5	12.5
		Lpm/m	155	155	155	155

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.



AWD
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