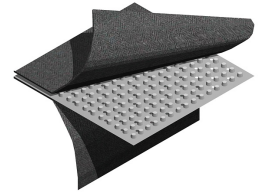


SITEDRAIN™ DS-90 SERIES

PREFABRICATED SHEET DRAINS



PRODUCT OVERVIEW

SITEDRAIN DS-90 Series prefabricated drains are constructed using a formed, perforated polystyrene core covered on both sides with a nonwoven filter fabric. The filter fabric prevents soil intrusion into the core flow channels while allowing water to freely enter the drain core. The perforated core allows water entry from both sides and provides an uninterrupted path for water to flow to designated drainage exits.

SITEDRAIN DS-90 is an economical drainage solution for sub-surface, double-sided drainage applications requiring moderate strength and moderate flow capacity. SITEDRAIN DS-90 is available with filter fabrics meeting AASHTO M 288-06 specifications.

Typical Property Values	ASTM Test Method	Unit of Measure	DS-90	DS-94	DS-96	DS-98
FABRIC						
Material ¹			PP	PP	PP	PP
Water Flow Rate	D-4491	gpm/ft ²	190	150	110	90
		Lpm/m ²	7,743	6,113	4,483	3,668
Grab Tensile Strength	D-4632	lbs	90	130	160	205
		N	400	578	712	912
Puncture Resistance	D-4833	lbs	35	75	90	120
		N	156	334	400	534
Apparent Opening Size	D-4751	sieve	50	70	70	80
		mm	0.297	0.210	0.210	0.177
Permittivity	D-4491	sec ⁻¹	2.8	2.1	1.8	1.3
Grab Elongation	D-4632	%	65	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.