



PolyFlow® 100 SERIES

PolyFlow® 100, 104, 106 & 108 Pre-Fabricated Strip Drains

PolyFlow® 100 is the replacement for the common aggregate perforated pipe referred to as a French drain.

PolyFlow® 100 is constructed by wrapping a two sided polymeric core with a geotextile filter.

PolyFlow® 100 is available with a variety of sizes and geotextile meeting a range of AASHTO & ASTM specifications.

Applications: Athletic fields, highway & road edge drains, strip drains, golf courses, play grounds or anywhere a pipe & stone French drain would commonly be used.

Typical Properties	ASTM Test Method	Unit of Measure	PolyFlow® 100	PolyFlow® 104	PolyFlow® 106	PolyFlow® 108
FABRIC MATERIAL			POLYPROPYLENE			
Water Flow Rate	D-4491	gpm/ft ²	150	150	110	90
		Lpm/m ²	6113	6113	4483	3668
Tensile Strength	D-4632	lbs	115	130	160	205
		newtons	512	578	712	912
Puncture Resistance	D-4833	lbs	70	75	90	120
		newtons	311	334	400	534
Apparent Opening Size	D-4751	sieve	70	70	70	80
		mm	0.210	1.210	0.210	0.177
Permittivity	D-4491	Sec ⁻¹	2.2	2.1	1.8	1.3
Elongation	D-4632	%	70	70	70	70
UV Resistance	D-4355	% / 500 hrs	70	70	70	70
AASHTO M 288-06*	Survivability	--	--	Class 3	Class 2	Class 1
CORE MATERIAL			HIGH IMPACT POLYSTYRENE			
Thickness	D-1777	in	1.0	1.0	1.0	1.0
		mm	25.4	25.4	25.4	25.4
Compressive Strength	D-1621	psf	6000	6000	6000	6000
		kPa	287	287	287	287
Flow Rate**	D-4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261

*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.

** In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 0.1.

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This information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.

