

Alidrain PVD

Alidrain® Prefabricated Vertical Drains (PVD's) comprise of a double sided ribbed polypropylene core wrapped around with a high performance filter jacket. Alidrain PVD's have excellent flow discharge capacities even in the kinked form. It is installed in soft clays to provide a shorter path for effective excess pore water dissipation, thereby resulting in accelerated consolidation of soft clay layers and gain in shear strength.

Properties	Test Standard	Unit	AD 550 ^a
Composite			
Discharge capacity - straight (300 kPa) ^b	ASTM D4716	$\times 10^{-6} \text{ m}^3/\text{s}$	150
Discharge capacity - kinked (250 kPa) ^c	ASTM D4716	$\times 10^{-6} \text{ m}^3/\text{s}$	110
Tensile strength (full width test)	ASTM D4595	kN	2.8
Tensile elongation at 1kN	ASTM D4595	%	≤ 10
Tensile elongation at break	ASTM D4595	%	≥ 15
Filter			
Tensile strength (MD)	ASTM D4595	kN/m	7.5
Grab strength (MD)	ASTM D4632	N	500
Trapezoidal tear (MD)	ASTM D4533	N	100
Puncture resistance	ASTM D4833	N	100
Apparent opening size	ASTM D4751	μm	75
Permittivity	ASTM D4491	s^{-1}	0.5
Coefficient of permeability	ASTM D4491	$\times 10^{-4} \text{ m/s}$	1.0
Physical			
Nominal width		mm	100
Nominal thickness	ASTM D5199	mm	4.5
Roll length		m	200

NOTES :

^a The values given are indicative and correspond to the average values obtained in accredited testing laboratories and institutes

^b Flow measurement taken at $i = 0.1$; in a confining medium of closed-cell neoprene

^c Flow measurement taken at $i = 0.1$; in a confining medium of closed-cell neoprene- Kinked geometry according to ASTM D6918 Method A

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