Polyfelt[®]

Alidrain[®] Prefabricated Vertical Drains

Alidrain[®] Prefabricated Vertical Drains comprise of a double sided ribbed polypropylene core wrapped around with a high performance filter jacket. Alidrain[®] Prefabricated Vertical Drains 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 530°
Composite			
Discharge capacity - straight (300 kPa) $^{^{\mathrm{b}}}$	ASTM D4716	x10 ⁻⁶ m³/s-m	50
Discharge capacity - kinked (200 kPa) $^\circ$	ASTM D4716	x10 ⁻⁶ m³/s-m	38
Tensile strength	ASTM D4595	kN	1.8
Tensile strength @ 10% Strain	ASTM D4595	kN	1.5
Tensile elongation at 1kN	ASTM D4595	%	≤ 10
Tensile elongation at break	ASTM D4595	%	≥ 15
Filter			
Tensile strength (MD)	ASTM D4595	kN/m	6
Grab strength (MD)	ASTM D4632	Ν	500
Trapezoidal tear (MD)	ASTM D4533	Ν	100
Puncture resistance	ASTM D4833	Ν	100
Apparent opening size	ASTM D4751	μm	80
Permittivity	ASTM D4491	S ⁻¹	0.5
Coefficient of permeability	ASTM D4491	x10 ⁻⁴ m/s	1.0
Physical			
Nominal width		mm	100
Nominal thickness	ASTM D5199	mm	3
Roll length		m	270

Note :

^e 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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Further details of this application and products can be obtained by contacting your nearest TenCate Technical Support office.

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