

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 130 ^a	Tolerance
Composite				
Discharge capacity - straight (250 kPa) ^b	ASTM D4716	x10 ⁻⁶ m ³ /s-m	≥ 85	
Discharge capacity - kinked (200 kPa) ^c	ASTM D4716	x10 ⁻⁶ m ³ /s-m	≥ 45	
Tensile strength (full width test)	ASTM D4595	kN	1.8	± 0.2
Tensile elongation at 1kN	ASTM D4595	%	≤ 10	
Tensile elongation at break	ASTM D4595	%	≥ 15	
Filter				
Tensile strength (MD)	ASTM D4595	kN/m	4	± 1
Tensile Elongation at 1kN	ASTM D4595	%	≤ 10	
Tensile Elongation at break	ASTM D4595	%	≥ 15	
Grab strength (MD)	ASTM D4632	N	250	± 20
Puncture resistance	ASTM D4833	N	60	± 10
Apparent opening size	ASTM D4751	µm	75	± 5
Coefficient of permeability	ASTM D4491	x10 ⁻⁵ m/s	10	± 2
Physical				
Nominal width		mm	100	
Nominal thickness	ASTM D5199	mm	3	
Roll length		m	270	

Note :

^a The values given are obtained from accredited testing laboratories and institutes, which subjected to the tolerance

^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

TenCate Polyfelt® and Alidrain® are registered trademarks of TenCate.

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

Unauthorized reproduction and distribution is prohibited. This document is provided as supporting service only. The information contained in this document is to the best of our knowledge true and correct. No warranty whatsoever is expressed or implied or given. Engineers wishing to apply this information shall satisfy themselves on the validity of the input data relative to the applicable soil and engineering conditions and in doing so assume design liability.