

# 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 550 <sup>a</sup>
<b>Composite</b>			
Discharge capacity - straight (300 kPa) <sup>b</sup>	ASTM D4716	x10 <sup>-6</sup> m <sup>3</sup> /s	150
Discharge capacity - kinked (250 kPa) <sup>c</sup>	ASTM D4716	x10 <sup>-6</sup> m <sup>3</sup> /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
<b>Filter</b>			
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 <sup>-1</sup>	0.5
Coefficient of permeability	ASTM D4491	x10 <sup>-4</sup> m/s	1.0
<b>Physical</b>			
Nominal width		mm	100
Nominal thickness	ASTM D5199	mm	4.5
Roll length		m	200

**Note :**

<sup>a</sup> The values given are indicative and correspond to the average values obtained in accredited testing laboratories and institutes.

<sup>b</sup> Flow measurement taken at i = 1.0; in a confining medium of closed-cell neoprene

<sup>c</sup> Flow measurement taken at i = 1.0; 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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