

## **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	<b>AD 300</b> <sup>a</sup>	<b>AD 400</b> °	<b>AD 500</b> °
Composite					
Discharge capacity - straight (300 kPa) <sup>b</sup>	ASTM D4716	x10 <sup>-6</sup> m <sup>3</sup> /s	100	120	150
Discharge capacity - kinked (250 kPa)°	ASTM D4716	x10 <sup>-6</sup> m <sup>3</sup> /s	70	90	110
Tensile strength (full width test)	ASTM D4595	kN	2.4	2.5	2.7
Tensile elongation at 1kN	ASTM D4595	%	≤ 10	≤ 10	≤ 10
Tensile elongation at break	ASTM D4595	%	≥ 15	≥ 15	≥ 15
Filter					
Tensile strength (MD)	ASTM D4595	kN/m	6	6	6
Grab strength (MD)	ASTM D4632	N	350	350	350
Trapezoidal tear (MD)	ASTM D4533	N	100	100	100
Puncture resistance	ASTM D4833	N	100	100	100
Apparent opening size	ASTM D4751	μm	75	75	75
Permittivity	ASTM D4491	<b>S</b> <sup>-1</sup>	1.0	1.0	1.0
Coefficient of permeability	ASTM D4491	x10 <sup>-4</sup> m/s	2.0	2.0	2.0
Physical					
Nominal width		mm	100	100	100
Nominal thickness	ASTM D5199	mm	3	4	5
Roll length		m	250	200	200

## Note:

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.

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

Flow measurement taken at i = 1.0; in a confining medium of closed-cell neoprene

 $<sup>^{\</sup>circ}$  Flow measurement taken at i = 1.0; in a confining medium of closed-cell neoprene- Kinked geometry according to ASTM6918 Method A