

# 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 <sup>a</sup>
<b>Composite</b>			
Discharge capacity - straight (300 kPa) <sup>b</sup>	ASTM D4716	$\times 10^{-6} \text{ m}^3/\text{s}$	150
Discharge capacity - kinked (250 kPa) <sup>c</sup>	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
<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	$\mu\text{m}$	75
Permittivity	ASTM D4491	$\text{s}^{-1}$	0.5
Coefficient of permeability	ASTM D4491	$\times 10^{-4} \text{ m/s}$	1.0
<b>Physical</b>			
Nominal width		mm	100
Nominal thickness	ASTM D5199	mm	4.5
Roll length		m	200

**NOTES :**

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

**TenCate Geosynthetics Asia Sdn. Bhd. – A Solmax company**

199301009495 (264232-U)  
 14, Jalan Sementa 27/91, Seksyen 27,  
 40400 Shah Alam, Selangor Darul Ehsan, Malaysia  
 Tel: +60 3 5192 8568 | Fax: +60 3 5192 8575

infoasia@solmax.com



Solmax is not a design or engineering professional and has not performed any such design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation, or specification.

Alidrain® is a registered trademark of Solmax in many countries of the world.

