



# Verdaclay CAP75 Liner Specification Sheet

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index <sup>3</sup>	ASTM D 5890	10,000 m <sup>2</sup>	36 ml / 2g.
Bentonite Mass per unit Area <sup>4</sup>	ASTM D 5993/EN 14196	5,000 m <sup>2</sup>	4.3 kg/m <sup>2</sup>
Bentonite Fluid Loss	ASTM D 5891	10,000 m <sup>2</sup>	15 ml.
GCL Peel Strength	ASTM D 6496	5,000 m <sup>2</sup>	190 N
GCL Index Flux <sup>1</sup>	ASTM D 5887	25,000 m <sup>2</sup>	3.8 x 10 <sup>-9</sup> (m <sup>3</sup> /m <sup>2</sup> )/s <sup>-1</sup>
GCL Permeability <sup>1</sup>	ASTM D 5887	25,000m <sup>2</sup>	2.2 x 10 <sup>-11</sup> m/s <sup>-1</sup>
Tensile Strength <sup>2</sup>	EN ISO 10319	20,000 m <sup>2</sup>	10 kN/m
Elongation	EN ISO 10319	20,000 m <sup>2</sup>	15 %
Mass per unit area of woven geotextile	ASTM D 5261	1 per 20,000 m <sup>2</sup>	100 g/m <sup>2</sup>
Mass per unit area of (non woven) needle-punched geotextiles	ASTM D 5261	1 per 20,000 m <sup>2</sup>	200 g/m <sup>2</sup>

Verdaclay CAP75 is a reinforced GCL consisting of a layer of natural sodium Bentonite between a woven and a non-woven geotextile which are needle-punched together.

Roll size: 5m x 45m  
Weight: 1300 kg approx.

**Notes:**

- <sup>1</sup> Index flux and permeability testing with de-aired distilled/de-ionized water at 80 psi (551 kPa) cell pressure, 77 psi (531 kPa) headwater pressure and 75 psi (517 kPa) tail water pressure.
- <sup>2</sup> All tensile testing is performed in the machine direction.
- <sup>3</sup> Bentonite properties as removed from the finished GCL.
- <sup>4</sup> Bentonite mass/area reported at 12 percent moisture.

Specialists in Geosynthetics & Erosion Control