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Product Specification Sheet

A.G.A. Claymat
 High Technology Natural Lining System for
 Sealed Water Containment Structures

A.G.A. Claymat is a reinforced Geosynthetic Clay Liner (GCL) consisting of a layer of natural sodium Bentonite between a woven and a non-woven geotextile which are needle punched together

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index *3	ASTM D 5890	10,000 m ²	24 ml / 2g min.
Bentonite Mass per unit Area*4	ASTM D 5993/EN 14196	5,000 m ²	4.8 kg/m ⁻²
Bentonite Fluid Loss	ASTM D 5891	10,000 m ²	18 ml max.
GCL Peel Strength	ASTM D 6496	5,000 m ²	65 N
GCL Index Flux *1	ASTM D 5887	25,000 m ²	2 x 10 ⁻⁹ (m ³ /m ²)/s ⁻¹
GCL Permeability *1	ASTM D 5887	25,000m ²	1 x 10 ⁻¹¹ m/s ⁻¹
Tensile Strength *2	EN ISO 10319	20,000 m ²	8 kN/m
Elongation	EN ISO 10319	20,000 m ²	15 per cent typical
Mass per unit area of woven geotextile	ASTM D 5261	1 per 20,000 m ²	100 g/m ²
Mass per unit area of (non woven) needle-punched geotextiles	ASTM D 5261	1 per 20,000 m ²	200 g/m ²

Notes:

- 1 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) tall water pressure.
- 2 All tensile testing is performed in the machine direction.
- 3 Bentonite properties as removed from the finished GCL.
- 4 Bentonite mass/area reported at 12 per cent moisture

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15.08.12

