

Voltite™ Waterproofing Solutions

VOLTITE™

Bentonite Geosynthetic Clay Liner

Voltite™ is a factory pre-hydrated needle-punched waterproofing GCL membrane composed of natural sodium bentonite granules encapsulated between high strength woven and non-woven geotextiles.

GEOCOMPOSITE

Permeability ASTM D 5887	$<5,0 \times 10^{-11}$ m/sec
Index Flux ASTM D 5887	$<1,0 \times 10^{-8}$ m ³ /sec-m ²
Tensile Strength ASTM D 6768	>10 kN/m
CBR Puncture EN ISO 12236	>1850 N
Peel Adhesion to Concrete ASTM D 903	$>2,0$ kN/m
Thickness EN 964-1	6,0 mm

BENTONITE LAYER

Bentonite Content⁽¹⁾ ASTM 5993	> 5000 g/m ²
Free Swell ASTM D 5890	> 24 ml/2g
Fluid Loss ASTM D 5891	< 18 ml

GEOTEXTILE LAYERS

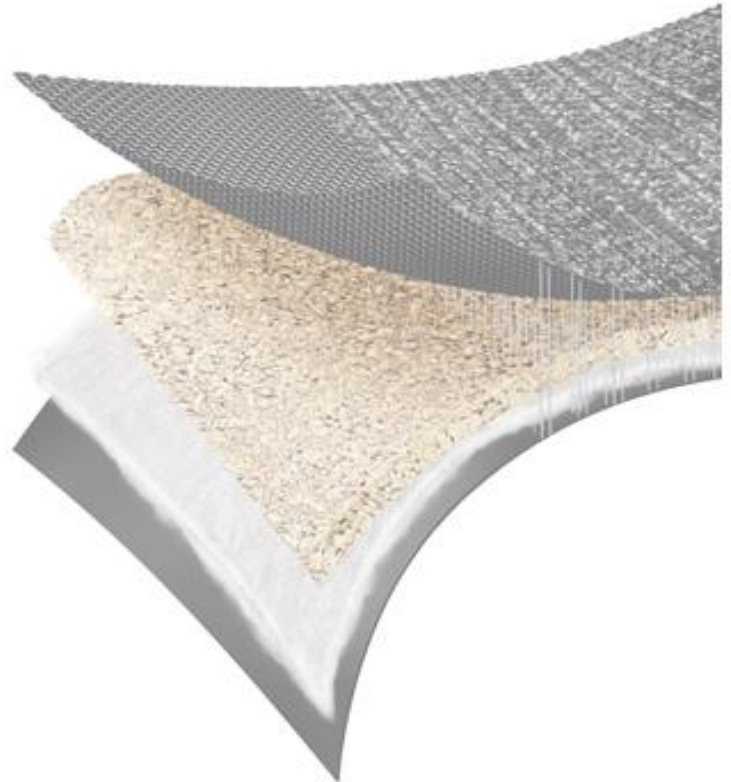
Non Woven - Mass / Unit Area ASTM D 5261	200 g/sq.m
Woven - Mass / Unit Area ASTM D 5261	110 g/sq.m

DIMENSION

width: 1, 10 - 1,25 - 2,50 - 5,00

length: 5,00 - 20 - 25 - 40

*different roll sizes available on demand



(1) min. weight of sodium bentonite with 15 % moisture content.
(2) results are reported as nominal values with max.10% tolerance.

The values in the table are achieved in manufacturers laboratories and accredited testing institutes by following the ASTM Standards and GeoShield quality plan.