

BENTOMAT “SS50” CERTIFIED PROPERTIES

| MATERIAL PROPERTY | TEST METHOD | TEST FREQUENCY, m² | REQUIRED VALUES |
|-----------------------------------|--------------------|--------------------------------------|---------------------------|
| GCL Permeability ¹ | ASTM D 5084 | Weekly | 1 x 10 ⁻¹¹ m/s |
| Bentonite Fluid Loss | ASTM D 5891 | 5,000 m ² | 18 mL max. |
| Bentonite Mass/Area | ASTM D 5261 | 5,000 m ² | 3.5 kg/m ² |
| GCL Grab Strength ² | ASTM D 4632 | 5,000 m ² | 400 N |
| GCL Grab Elongation | ASTM D 4632 | 5,000 m ² | 20 percent typical |
| GCL Peel Strength | ASTM D 4632 | 5,000 m ² | 65 N |
| Bentonite Free Swell ³ | ASTM D 5890 | 5,000 m ² | 24 mL / 2g min. |

Bentomat “SS50” is a reinforced GCL consisting of a layer of natural sodium bentonite between a woven and a non-woven geotextile which are needlepunched together.

Notes:

¹ Permeability with deaired distilled water at 35 kPa confining pressure and 15 kPa head pressure

² All tensile testing is performed in the machine direction, with results as minimum average roll values unless otherwise indicated.

³ Bentonite properties as removed from the finished GCL. Bentonite mass/area reported at 12 percent moisture.