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Bentoliner™ CBL 100

Dam & Pond Liner Lining Systems

Water proofing properties of a plastic liner with
the ease of installation of a Geosynthetic Clay Liner

POLYFABRICS AUSTRALIA PTY LTD | ABN. 12 009 223 278 | W. www.polyfabrics.com.au
NEW SOUTH WALES: A. 5 FROST RD, CAMPBELLTOWN NSW 2560 | T. (02) 4627 6444 | F. (02) 4627 6488
QUEENSLAND: A. UNIT 1A 74-76 MAGNESIUM DRIVE, CRESTMEAD QLD 4132 | T. (07) 3278 5888 | F. (07) 3278 5855

Bentoliner™ CBL 100 - Dam & Pond Liner

Bentoliner™ CBL is a reinforced GCL consisting of a layer of sodium bentonite between two geotextiles, which are needle punched together and laminated to a flexible membrane liner. The Bentoliner™ CBL has a coefficient of permeability $k=5 \times 10^{-12} \text{m/sec}$, and is comparable with Plastic liners. Bentoliner™ CBL's are highly recommended in:

1. Pond and dam application when exposed to high hydraulic heads.
2. Applications where GCL is exposed to wetting and drying cycles.
3. Applications where GCL is placed against saline soils such as coastal use.

Other applications include base lining of landfills; as part of the leachate detection and leachate collection system; landfill capping incorporating a root control system; cut off walls; etc.



Deployment: The roll of Bentoliner™ is supported during its deployment so that the fabric designated as the upper surface faces out, away from the installation vehicle (refer to installation guidelines). The free end of the roll can then be secured (installers standing on edge) and the vehicle supporting the roll can slowly back away, deploying the Bentoliner™ as it moves. Alternatively, the free end can be manually pulled across an area to be lined by the installation crew while the equipment simply suspends the roll. Bentoliner™ should be covered by a minimum thickness of 300mm of approved soil or gravel at the end of the construction day.

Seaming and Joining: Bentoliner™ seams are constructed by overlapping adjacent panel edges and ends. Care should be taken to ensure that the overlap zone is not contaminated with loose soil or other debris. Bentoliner™ CBL100 (GCL plus HDPE membrane) has no Supergroove®, bentonite in the form of granules (0.4kg/m) or premix paste is used on all overlaps. Adjacent panels are overlapped 300mm-600mm along the side joints, and 600mm at end joints.

Anchorage: Bentoliner™ GCL is typically anchored in a trench around the perimeter of the containment basin to provide the required pullout resistance. The size and shape of the trench, as well as the appropriate backfill procedures should be in accordance with the project drawings and specifications.

Bentoliner™ should be placed in the trench extending down the inside wall face and along the entire trench floor, secured by the controlled placement and compaction of backfill into the trench prior to placing cover soil on the slopes.

Consult Polyfabrics Australia Pty Ltd or a certified Engineer for site specific installation instructions.

