



## Dam Lining Using Bentoliner BL 100



Bentoliner® BL100 is a reinforced GCL consisting of a layer of sodium bentonite between two geotextiles, which are needle punched together to form an impermeable liner. The Bentoliner® BL100 has a coefficient of permeability  $k=3 \times 10^{-11}$  m/sec, and is comparable

with 1m of compacted Clay

Applications includes base lining of landfills; as part of the leachate detection and leachate collection system; landfill capping; 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 300 mm 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 by 300mm - 600mm.. Care should be taken to ensure that the overlap zone is not contaminated with loose soil or other debris. Bentoliner® BL100 has Supergroove® and requires no longitudinal lap treatment

### 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.

