

GEOSYNTHETICS GEOSYNTHETIC CLAY LINERS

Geotextile & bentonite
composites for advanced
containment applications



THE STATE-OF-THE-ART, COST-EFFECTIVE SOLUTION FOR INCREASED ENVIRONMENTAL PROTECTION

Thrace Eurobent Geosynthetic Clay Liners (GCLs) are the natural sealant substitute for the traditional thick compacted clay liners, **offering better sealing** performance along with a more **eco-friendly** and **cost-effective** construction alternative. Our GCL products are rolls of factory fabricated **thin layers of bentonite clay** (a mineral which expands when wet) sandwiched between two layers of geotextiles. The **woven geotextile base layer** and the **nonwoven geotextile top layer** are structurally connected through the process of **needle punching**. In certain cases the GCL layer is **bonded to a geomembrane sheet** that acts as a **geosynthetic barrier** with **high tensile strength and thickness**.

FUNCTION SERVED BY THRACE EUROBENT GCLs

CONTAINMENT

The bentonite material present in Thrace Eurobent Geosynthetic Clay Liners acts as a high performance hydraulic barrier by **containing the leachate material and preventing its seepage to the underlying soil**.

BENEFITS & APPLICATIONS

Thrace Eurobent GCLs offer unique advantages, such as:

- **Verified quality**, ensuring construction and environmental safety
- **High sealing performance** with predefined permeability
- **Low weight** that minimizes transportation costs
- **Quick and easy installation**, reducing construction costs

Applications: Landfills, canals & storage reservoirs, tank storage sites, tunnel & building seals, run-off basins, roads in environmentally sensitive areas.



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