

Liner (HDPE), Concrete Liner (HDPE)





CeTeau



CeTeau stands for advanced ground improvement technologies and specialized geosynthetic environmental techniques. With more than 15 years of worldwide experience in numerous projects, CeTeau is ready to execute your project according to the highest expectation.

CeTeau also stands for complete line of geosynthetics; geotextiles, geomembranes, geogrids, High Density Poly Ethylene Liners, Geosynthetic Clay Liners, silt protectors, gabions and many more solutions.



All these products are approved according the latest standards so they can exceed the lifespan of your projects.

## CeTeau-Line

### The Landfill Solution

Geomembranes are widely used for containment of liquids, solids and waste materials by virtue of its characteristics; resistance to a wide range of chemicals, reliable in exposed environments due to high UV protection against degrading and low temperature brittleness. CeTeau offers a wide range of materials capable of meeting the ever increasing environmental demands.



### Main Applications

- \* Landfills
- \* Landfill Caps
- \* Hazardous Waste Containments
- \* Liquid Waste Containments
- \* Secondary Containments
- \* Aquaculture Ponds
- \* Canals
- \* Potable Water Containments
- \* Water Reservoirs
- \* Mining
- \* Tunnel Lining
- \* Storage Tanks



## High Density Polyethylene (HDPE)

Polyethylene is a long-chain hydrocarbon thermoplastic material obtained through the polymerization of ethylene. Polyethylene geomembranes were developed exclusively to reduce the hydraulic conductivity of earthworks and are part of one of the most sophisticated and effective impervious systems known to date. They are also very reliable in exposed environments due to their excellent resistance to brittleness in low temperatures and superior protection against UV degradation. Manufactured in wide rolls, polyethylene liners come in varying thicknesses ranging from 0.5 to 3.0 mm. Surface finish Polyethylene liners come in a variety of surface finishes, from smooth to heavily textured. Offering higher friction properties, textured materials are perfect for lining steep slopes to prevent the slippage of adjacent materials.



## Installation

Geomembranes are heat welded in the field by certified technicians using the following welding systems;

**Hot wedge weld:**

a heated (metal) wedge is drawn between the liner, so that the material melts. By using pressure rolls the layers are converted to a homogeneous joint.

**Hot air weld:**

instead of using a wedge, the liner is heated with hot air and pressed together.

**Extrusion joints:**

a bead of melted HDPE is laid on the edge of the liner by using a hand extruder. This forms an excellent joint with the liner underneath.

The large width up to (8 m) of CeTeau geomembranes reduces the number of welds considerably. To guarantee the quality of the welds, all welds are tested in the field.

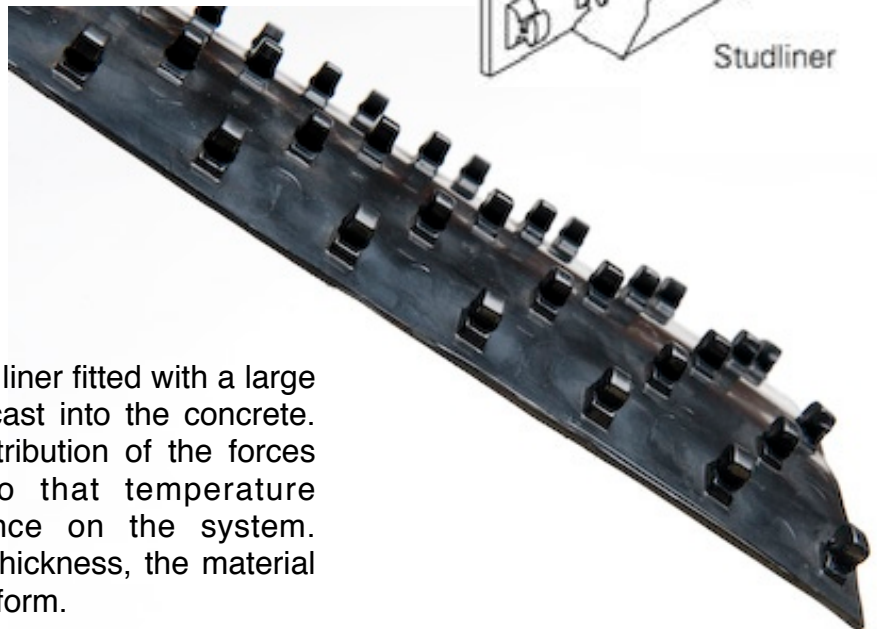
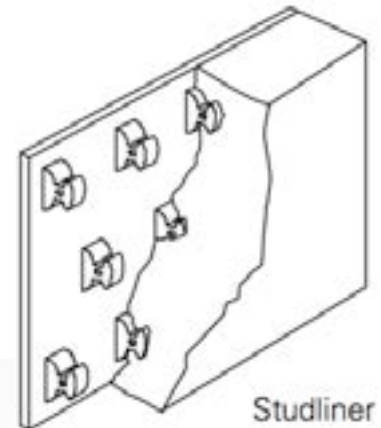


## Concrete Liner

### CeTeau-Grip

This CeTeau synthetic liner is increasingly used for concrete cover as a protection against chemical effects.

Concrete constructions in waste water plants and sewerage pipes are particularly prone to chemical harm from sulphates and acids.



Geogrip consists of a synthetic liner fitted with a large number of studs which are cast into the concrete. The studs ensure a good distribution of the forces over the upper surface so that temperature fluctuations have no influence on the system. Depending on the prescribed thickness, the material is delivered as plating or in roll form.

## Main Applications

- \* Drinking Water Reservoirs
- \* Waste Water Treatment Plants
- \* Foundations in Aggressive Ground Water
- \* Electrolysis Tanks
- \* Emergency Basins for Chemical Storage
- \* Concrete Elements and Pipes
- \* Gas Channels



**Advanced Geosynthetic Solutions**



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