



FLEXIBLE

GEOMEMBRANE

INSTALLATION GUIDE

TITAN ENVIRONMENTAL CONTAINMENT
TITAN ENVIRONMENTAL USA



Surface Preparation:

- The earth upon which the liner will be placed must be smooth, dry, and free from sharp rocks, roots, vegetation, and other foreign material. A compacted substrate is advisable to prevent settling. Compaction around pipes and structures is especially important.
- Sub-grade material shall be prepared as per the following conditions:
 - If sub-grade material is 12mm (0.50") or less, the liner can be placed directly onto sub-grade once it has been compacted and drum rolled.
 - If sub-grade material is 19mm (0.75") to 75mm (3.0") a minimum of 240g/m² (7oz/yd²) geotextile must be placed on the compacted and drum-rolled sub-grade prior to the placement of all liner material.
 - If the sub-grade consists of 150mm – 300mm (6" -12") material, a 100mm (4.0") thick layer of sand or a 12.5mm (0.50") minus granular material compacted and drum rolled, must be placed on the compacted and drum rolled sub-grade material prior to the placement of the Liner.



Installation:

- Dig the anchor trench as shown on the shop drawing or the engineering drawings. ALWAYS THROW EARTH FROM TRENCH AWAY FROM SIDE SLOPE.
- Crew size will depend on the project size. A minimum of 6 people required, most projects need at least 10 people to spread panels.
- Make sure to have plenty of sandbags placed around the perimeter of the area to be lined.
- Do not start deployment before sandbags are placed. Do not deploy during windy conditions.
- Panel is accordion folded then rolled. Be careful to note dimensions and direction.
- Place panel at the appropriate corner of the cell.
- Unroll the entire length.
- Separate crew evenly over length.
- Pull carefully over width of area. (When friction makes the pulling difficult flip air under panel) think air hockey puck.
- If you are really stuck tighten up crew and pull in sections.
- Equipment can be used by clamping the liner between 2 x 6's.
- Some wind under liner will help the pulling, **do not let wind get control of liner, if it picks up get entire crew to drop the open edge immediately and hold down until bubble dissipates.**





Flexible Geomembrane Installation

- Inform crew of instructions prior to deployment.
- Geotextile is rolled out on top of liner with 6"– 12" overlaps.
- Driving on the liner is permitted only when the liner is first covered with 12" of earth.
- Two-sided tape is used in between liner panels and pipe boots. The wide tape is used on the edge. Make sure seam is straight prior to attempting to tape. Make sure surface is clean and dry. If you have trouble making the tape stick, rough up liner with fine sand paper and vacuum off dust.

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