



Inserting Ground Anchor in Geomembrane

INSERTING GROUND ANCHORS THROUGH GEOMEMBRANES

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In a recent project using LLDPE in a landfill closure cap in Seneca Meadows, N.Y., Titan crews installed a three-layer geomembrane system including 125,000 sq. yards of ground water geocomposite; 40 mil. LLDPE texture geomembrane; drainage geocomposite, as well as a temporary cap. The temporary cap involved installing 60,000 sq. yards of exposed 40 mil LLDPE geomembrane liner using the Platipus® Percussive

Driven Earth Anchor (PDEA™) liner ballast system.

Designed to keep the liner exposed and in place, this system holds the sheet to the earth using a jack that applies exact-measured-tension to lock the anchor in place and is extremely effective solution to wind and gas uplift forces associated with exposed liner cap and containment designs. Generally, the anchor is driven 1.3 to 1.5

meters through the liner into the compacted waste then field verified and recorded. The excess tendon remains on the anchor assembly after the load plate and wedge grip have been installed. An impermeable HDPE membrane patch is then welded into place over the installed anchor giving access to re-tension the plate and wedge grip should future consolidation of the waste occur.

