

# GEOVOLT™

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Geovolt™ is a conductive composite that combines a thin conductive film

with a needle-punched nonwoven geotextile. The result of this unique manufacturing process is a consistent conductive material that can facilitate effective electric leak detection under most geomembranes. The nonwoven laminate allows the material to double as a cushion layer as well. This product was developed specifically to address several challenges currently faced when deploying electric leak location methods including:

- No need for water above the geomembrane
- Consistent conduction of electricity beneath the entire lined surface
- No need for special welding techniques
- Can be used with any synthetic waterproofing barrier

Geovolt™ is patented in North America and meets requirements of ASTM D7852 which is “Standard Practice for Use of an Electrically Conductive Geotextile for Leak Location Surveys”.



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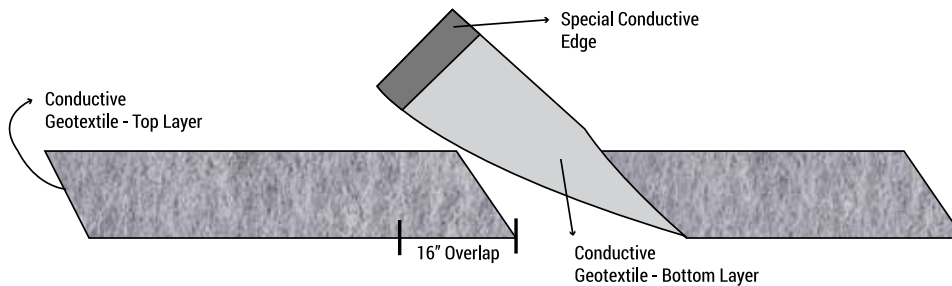
## Conductive Composite

### Geovolt Installation

General Installation: Geovolt™ is placed in a similar manner to installing a roll of nonwoven geotextile. Two important considerations are ensuring a positive 16" (450mm) overlap between rolls, and ensuring the material is electrically isolated from any conductive material on top of the liner.

Do not allow vehicles to drive directly on the Geovolt™. Geovolt™ should be stored such that it is protected from rain and direct sunlight. Please contact your local Layfield Representative for installation instructions for using Geovolt™ in electrical leak detection applications.

**Each roll has a special conductive edge that is designed to provide continuity between the adjacent Geovolt™ panels. The side with the special edge faces the prepared subgrade. See schematic below:**



### Geovolt Typical Material Properties

	ASTM	GeoVolt Typical <sup>1</sup> Material Properties
Weight	D5261	6 oz/yd <sup>2</sup>   200 grams/m <sup>2</sup>
Tensile	D4632	120 lbs   533 N
Elongation	D4632	50%
Trapezoidal Tear	D4533	50 lbs   222 N
CBR Puncture	D6241	310 lbs   1380 N
AOS	D4751	70 sieve   212 microns
Water Flow	D4491	7.5 gal/min.ft <sup>2</sup>   305 l/min/m <sup>2</sup>

<sup>1</sup>These are typical properties only, based on average material properties. These properties are not intended as limiting minimum specifications.