

GEOVOLT® CONDUCTIVE COMPOSITE

Enable effective electric leak detection under almost any geomembrane. Geovolt® is a uniquely manufactured conductive composite that combines a thin conductive film with a needle-punched nonwoven geotextile. The nonwoven laminate allows the material to double as a cushion layer, protecting your geomembrane from puncture.

Developed specifically to address several common challenges faced during the deployment of electric leak location methods, Layfield's Geovolt® allows leaks to be located in lined systems with precision and without requiring an additional conductive layer. If you can't afford a leak, you can count on Geovolt®.

Dec 2024		Geovolt®	
Property	ASTM		
Material Properties	Weight	D5261	8 oz/yd ² 270 gsm
	Tensile	D4632	160 lbs 711 N
	Elongation ¹	D4632	50%
	Trapezoidal Tear	D4533	60 lbs 267 N
	CBR Puncture	D6241	410 lbs 1820 N
	AOS	D4751	70 sieves 212 microns
	Water Flow	D4491	7.5 gal/min.ft ² 305 l/min/m ²

Notes:

- The specified value of 50% elongation is for the composite whereas the conductive film has approximately 15% elongation.

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" (406mm) overlap between rolls, and ensuring the material is electrically isolated from any conductive material on top of the liner.

For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com

GEOVOLT[®] CONDUCTIVE COMPOSITE

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 figure 1.

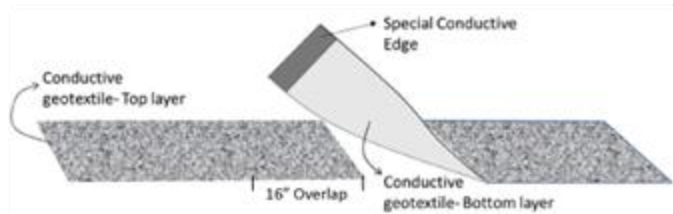


Figure 1. Schematic of overlap between panels

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