

LIQUID BOOT® GeoVent Trenchless Gas Collection System

VERSION 1.3

These Specifications may have changed. Please contact CETCO Remediation Technologies at 714.384.0111 for the most recent version.

PART 1: GENERAL

- 1.1 **SUMMARY OF WORK**- Work related to the Soil Venting System includes providing soil vapor extraction piping and LIQUID BOOT® GeoVent beneath the LIQUID BOOT® gas vapor membrane.

PART 2: PRODUCTS

2.1 MATERIALS

- A. LIQUID BOOT® GeoVent is a composite low profile pressure relief, collection and venting system (PRCVS) consisting of a 3-dimensional vent core and wrapped with a non-woven needle punched filter fabric. This product meets the following specifications:

- B. Trenchless Gas Collection System properties:

TEST METHOD	TYPE OF TEST	MINIMUM VALUE
ASTM D-1621	Core - Compressive Strength	9,500 psf
ASTM D-1777	Core - Thickness	1.0 in.
ASTM D-4716	Core – Flow Rate (Hydraulic gradient = 0.1)	30 g/min/ft. width
ASTM D-4833	Fabric - Puncture Strength	65 lbs.
ASTM D-4751	Fabric - Apparent Opening Size (AOS)	70 US Sieve
ASTM D-4632	Fabric - Grab Tensile Strength	100 lbs.
ASTM D-4491	Fabric - Permeability	0.21 cm/sec
ASTM D-4491	Fabric - Flow Rate	140 gal. min. ft. ²
ASTM D-5261	Fabric - Mass per Unit Area	4.0 oz/yd ²
ASTM D-4355	Fabric – UV Resistance	70%
	Roll Weight	65 lbs
	Roll Width	12 in
	Roll Length	165 ft

- C. LIQUID BOOT® GeoVent end outlet
- D. LIQUID BOOT® GeoVent Interior Footing Sleeves
- E. LIQUID BOOT® GeoVent Fabric Reinforced Tape

PART 3: EXECUTION

3.1 INSTALLATION

- A. Roll out LIQUID BOOT® GeoVent per layout design as specified by Engineer.
- B. Use prefabricated LIQUID BOOT® GeoVent Sleeves where venting is to penetrate interior footings. See the detail describing LIQUID BOOT® GeoVent through footings.
- C. At points of intersection, cut away geotextile to produce rectangular flaps. Interlock exposed dimple board in a Lego-like fashion. Fold flaps of geotextile in a manner so that the dimple board is covered completely. Secure geotextile folds with LIQUID BOOT® Fiber Reinforced Tape so that the geotextile is completely impermeable to sand fill.
- D. Use LIQUID BOOT® GeoVent End Outlet to attach to solid (imperforated) 2 inch diameter PVC pipe at penetration through building foundation. Seal/ grout piping at penetrations through foundation using approved methods. See the detail describing connection to a vent riser.