J·DRAIN

APPLICATIONS

BUILDING CONSTRUCTION UNDER SLABS

LANDFILLS

CONTAINMENT PONDS

J·DRAIN GVS 953

GAS VENTING SYSTEM

Product Description

J·DRAIN GVS 953 is a low profile, open structure, gas venting system featuring a three-dimensional polypropylene core wrapped in a non-woven polypropylene geotextile fabric. The flow channel is supported by this high compressive strength core to maintain structural integrity while providing maximum capacity for gas infiltration. Using the same technology, as our drainage composites, to control sub-surface water in building construction, civil engineering, environmental and landscape applications, the **J·DRAIN GVS 953** is a lower cost alternative for gas venting compared to a traditional perforated pipe embedded in drainage aggregate.

Lightweight and easy to install, the **J·DRAIN GVS 953** can be installed to passively or actively vent vapors and is available in a variety of configurations for customizable venting applications designed to overcome the problem of high levels of gas concentration.

Common Ground Gas Dangers

These hazardous and highly toxic gases can be released into the atmosphere preventing them from entering into occupied buildings or exerting stress on geosynthetic liners.

Methane: An odorless, flammable gas that is explosive.

Carbon Dioxide: An colorless, odorless gas that in high concentrations can result in asphyxiation.

Radon: A naturally occurring radioactive gas that is odorless and colorless. If it accumulates in a building at unacceptably high concentrations, it will increase the potential risk of the occupants developing lung cancer

Installation Options

Blanket Coverage: Covers the entire floor area usually on more heavily gassing sites.

Percentage Coverage: Laid in strips to cover a specific percentage area of the project's footprint.

Grid Coverage: Strips installed in a pre-determined grid configuration.

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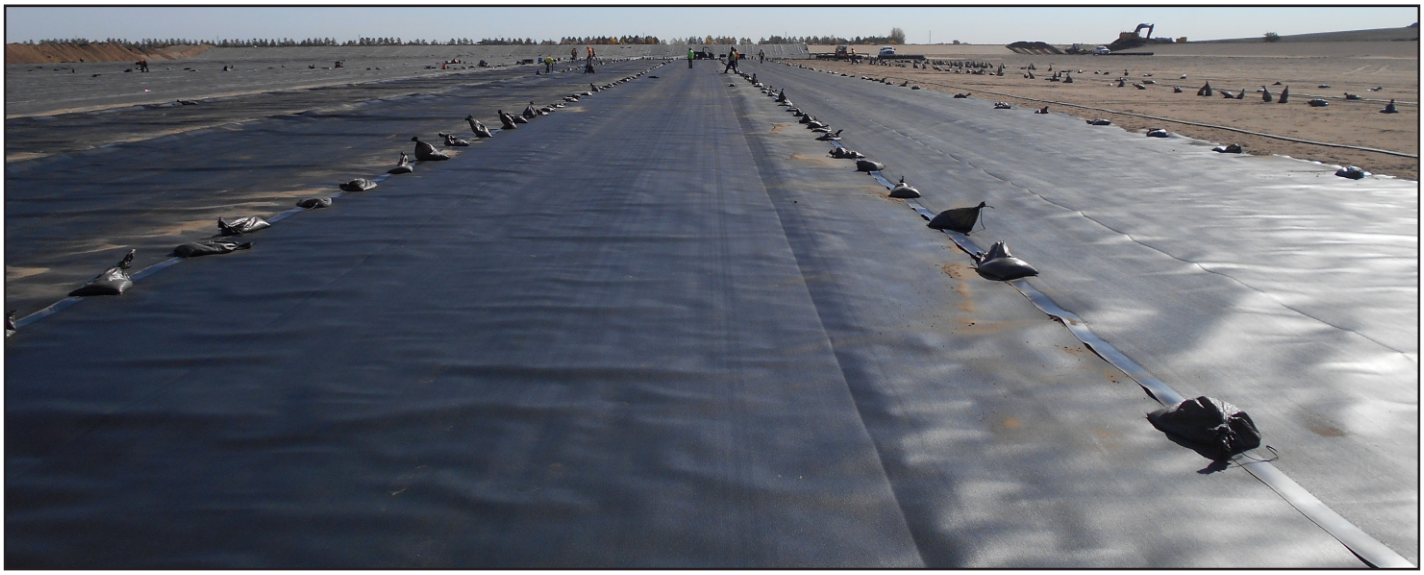

Physical Properties

Core

Compressive Strength (ASTMD-1621)	9,500 psf	(454 kN/m^2)
Thickness (ASTM-1777)	1 In.	(2.54 cm.)
In-Plane Flow (ASTMD-4716) (Q&518 psf & Hydraulic gradient = .1)	30 gpm/ft width	(372 lpm/m)

Roll

Roll Weight:	35, 71, 105, 140,213, lbs.	(16, 32, 48, 63 & 96 kgs.)
Roll Width:	6”, 12”, 18”, 24”, 36”	(15, 30, 45, 60, & 90 cm.)
Roll Length:	165 ft.	(50.29 meters)

Fabric

Flow (ASTM D-4491)	160 gpm/ft^2	(6519 lpm/m^2)
CBR Puncture (ASTM D-6241)	210 lbs.	(934 N)
AOS (ASTM D-4751)	70 U.S. Sieve	(.212 mm)
Grab Tensile (ASTM D-4632)	80 lbs.	(.356kN)
Permittivity (ASTM D-4491)	2.2 sec^{-1}	
U.V. Resistance (ASTM D-4355)	70% @500 hrs.	

The information contained herein is believed by JDR Enterprises, Inc. to be accurate and is offered solely for the customer’s consideration, investigation and verification. Determination of suitability for use is the responsibility of the user. JDR’s Limitiations, Limited Warranty, & Disclaimer along with Standard Terms & Conditions apply. See www.j-drain.com for more info. Limitations: J-DRain is resistant to chemicals in normal soil environments. However, some reagents may affect the performance of J-DRain. A JDR representative should be contacted for further information to determine the suitability of use of J-DRain in unusual soil environments. J-DRain should be limited to its exposure to ultra-violet sunlight. J-DRain should be backfilled or covered within seven days of installation. Disclaimer: All information, drawings and specifications are based on the latest published information at the time of printing. JDR reserves the right to make changes due to manufacturing improvements and engineering at any time. All physical properties are minimum average roll values (MARV). Standard variations of 10% in mechanical properties and 15% in hydraulic properties are normal.

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