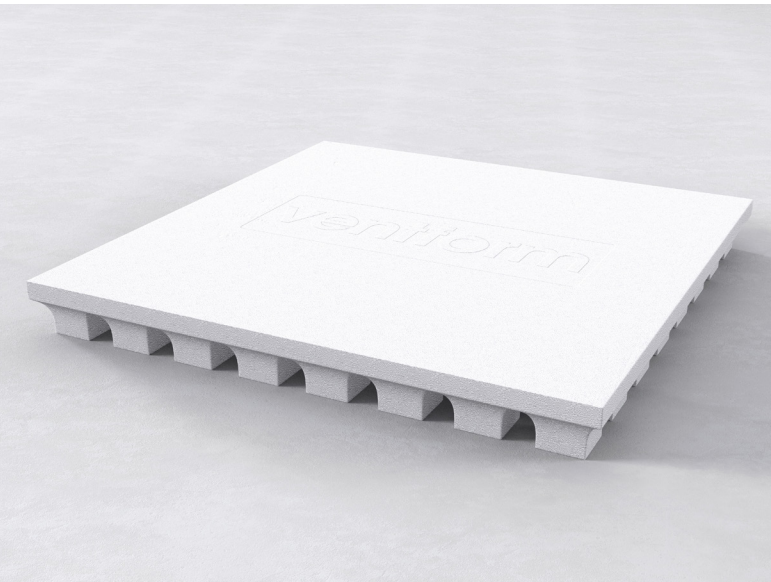


Ventform Data Sheet



The Cordek Ventform provides an excellent passive gas venting medium for use under suitably reinforced concrete ground floor slabs. When used in combination with perimeter vents and a suitable gas membrane system, it will provide an effective method of protecting structures against the ingress of harmful ground gases.

Key Features

- Highly effective venting medium suitable for ground gas affected sites as part of a gas protection system
- Provides a high degree of insulation and is manufactured from expanded polystyrene which achieves a BREEAM rating of A+
- Range of thicknesses and grades to suit most project requirements
- Light, robust and easy to install 1.2m x 1.2m panels
- Ventform panels are resistant to UV light, water and are flame retardant. They contain no CFCs or HCFCs.

Installation

The procedure for installing the Ventform panels is straightforward; the following points should be adhered to:

- Ensure that the Ventform panels are placed upon a firm, level surface. In ground-bearing situations the subgrade should be designed to accept the dead and live load concentration under the Ventform legs.

- The lightweight but durable panels can be easily laid by one person. If additional cutting is required, this can be carried out using a fine tooth saw or hot wire cutter (available for hire from Cordek – please contact our sales team on 01403 799600).

Storage & Handling

All products are delivered in polythene wrapping and are clearly labelled. The Ventform panels are delivered in packs up to 20kg in weight, with a maximum individual panel weight of 4.5kg. Packs and individual panels can be safely manually handled and offloaded upon delivery.

Due to the relatively light nature of the product, all packs of Ventform should be weighted down or secured should they be stored outside prior to installation.

For further information on the full range of VOC & Ground Gas Protection, please contact the Cordek technical team on 01403 799600, techsupport@cordek.com or consult our website at www.cordek.com.



Product Data

The grade of Ventform panel required should be based upon the required equivalent void and maximum load capacity that it is required to support. This information is provided below, however please contact the Cordek technical team should you require further assistance in selecting the most appropriate grade.

Grades and Performance Characteristics

Ventform Grade	Overall Depth (mm)	Leg Depth (mm)	Clear Void Equivalent (mm)	Maximum Load Capacity (kN/m ²)
80/20	80	40	19	20
80/30	80	40	19	30
80/40	80	40	19	40
80/50	80	40	19	50
100/20	100	60	30	20
100/30	100	60	30	30
100/40	100	60	30	40
100/50	100	60	30	50
150/9	150	80	60	9
150/13	150	80	60	13
200/9	200	130	100	9
200/13	200	130	100	13

Panel size: 1.2m x 1.2m

Result of CFD Modelling

By comparison, other ground methods of venting ground gases can be compared to the Cordek Ventform in terms of performance using the CFD modelling data provided opposite.

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DISCLAIMER: Information contained within this 'Technical Data Sheet' is for guidance only, and it is intended for experienced construction industry workers. It contains summaries of aspects of the subject matter and does not provide comprehensive statements of construction industry practice. As conditions of usage and installation are beyond our control we do not warrant performance obtained. Please contact us if you have any doubt as to the suitability of application. The information provided within this document is based on data and knowledge correct at the time of printing.

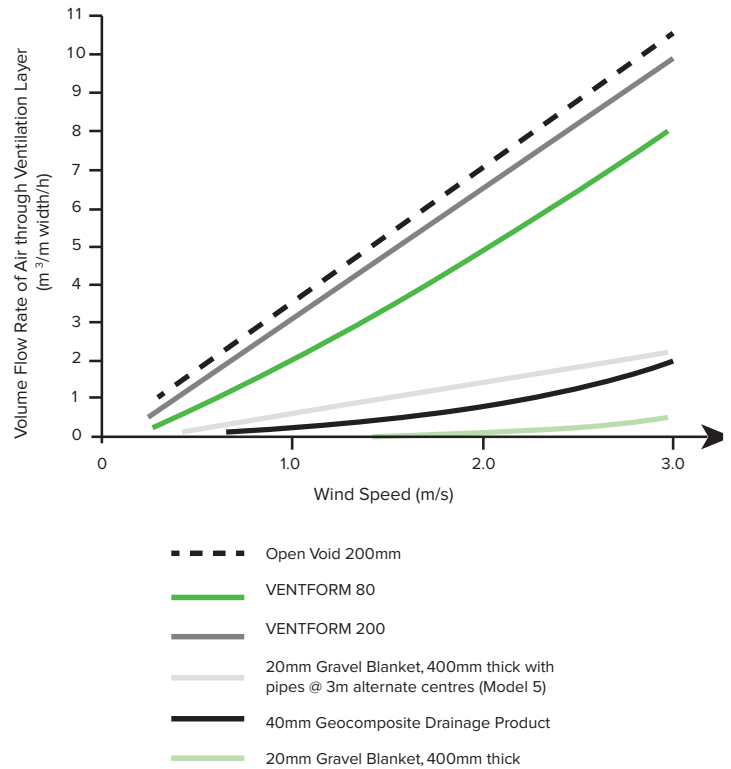
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Volume Flow Rate v Wind Speed for 30m Wide Foundation



Data sourced from: DOE Partners in Technology – Passive Venting of Soil Gases Beneath Buildings – Guide for Design. Full document available as a download from the Cordek website.

As has been stated Ventform provides a high degree of insulation. The expanded polystyrene used in Ventform has a maximum thermal conductivity of 0.036 W/mK.

Ventform Grade	Thermal Resistance (m ² K/W)
80/20	1.60
80/30	1.65
80/40	1.69
80/50	1.75
100/20	1.84
100/30	1.90
100/40	1.95
100/50	2.01
150/9	2.37
150/13	2.43
200/9	2.63
200/13	2.70

