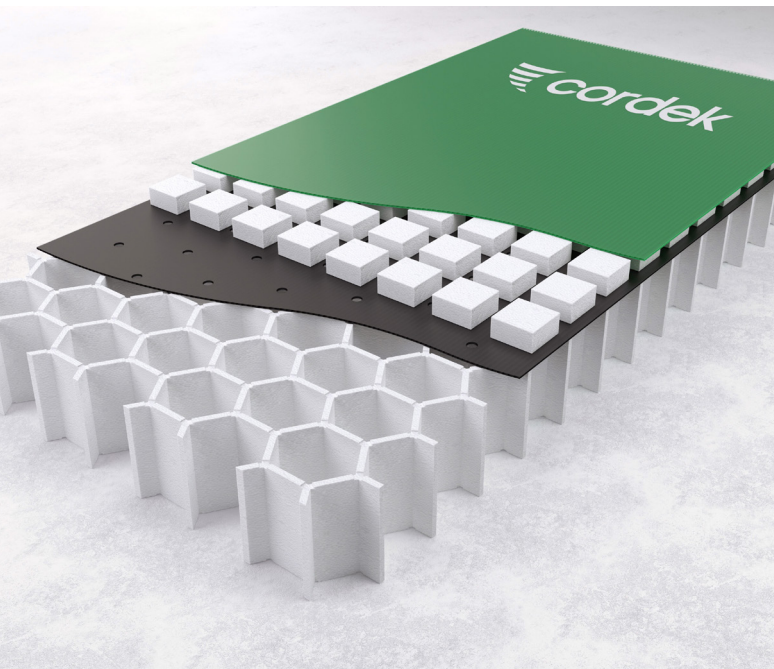


Cellvent HX Data Sheet



Cellvent HX combines the benefits of Ventform with the Cellcore HX range.

Cellvent HX alleviates the effects of ground movement and also provides an excellent gas venting medium. It is designed for use under suitably reinforced ground floor slabs. The depth of the Cellvent HX panel will depend upon the amount of ground heave that has been predicted (for a full explanation and design examples please refer to our Ground Heave Solutions brochure or the Cordek website).

Key Features

- Provides combined ground heave protection and gas venting capabilities in a single product
- Range of thicknesses and grades to suit most project requirements
- Light, robust and easy to install 2.40m x 1.20m panels
- All variations include drainage slots to alleviate water pressure
- Unaffected by both UV light and water
- Can be connected to the Cordek range of perimeter vents to vent hazardous ground gases from beneath the building footprint to the atmosphere.

Installation

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

- Ensure that the Cellvent HX panels are placed upon a firm, level surface. A concrete or sand/cement blinding will often be required.
- Do not overload the Cellvent HX panels with reinforcement or surcharge them with concrete.

Storage & Handling

All products are delivered in a polythene wrapping and are clearly labelled. The packs of Cellvent HX can be manually handled and offloaded upon delivery, taking into account site Health and Safety procedures.

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

For further information please contact the Cordek technical team on 01403 799600, techsupport@cordek.com or consult our website at www.cordek.com.



Product Data

The panel depths available are:

NHBC Shrinkage Category	Soil Plasticity Index	Cellvent HX Product Depth (mm)	Equivalent Cellcore HXS Depth (mm)	Maximum Heave Potential (mm)
Low	10-20	135	90	50
Medium	20-40	205	160	100
High	40-60	270	225	150

The grade of Cellvent HX is determined by the depth of the concrete slab:

Cellvent HX Grade Category	Maximum Depth of Concrete (mm)	Maximum Safe Load (inc. 1.5kN/m ² live load)	Fail Load (kN/m ²)
7/10	220	7	10
9/13	300	9	13
13/18	460	13	18
18/24	660	18	24

Based on the above tables, the Cellvent HX specification for a 250mm thick concrete slab on top of a medium shrinkability clay would be: **Cellvent 205 HX 9/13**.

Cellvent is supplied with an equivalent ventilation capacity to the Ventform 80 range, which includes an equivalent 19mm clear void depth. If a greater venting capacity is required please contact our Technical Department on 01403 799600 for further guidance.

Ground Heave Solutions and Gas Protection brochures are available at www.cordek.com and contain further technical and explanatory information around the complete range of Cordek ground heave solutions and ground gas protection systems.

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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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