

Radon Sump Data Sheet



A Cordek Radon Sump acts as an extraction point for radon gases beneath buildings within radon affected areas. If a radon sump is positioned within a permeable granular layer beneath a ground floor slab and subsequently connected to an extract fan then the penetration of hazardous radon gas into the building is minimised. Cordek also provide a range of additional components including membranes, DPC's and vent outlets to provide a solution to the issues posed by radon gas to new constructions.

Key Features

- Positioning of a Cordek Radon Sump(s) beneath a building can reduce the risk posed by radon gas by minimising the pressure beneath the building
- Robust polypropylene construction for positioning beneath ground slab constructions
- Can be used in conjunction with Cordek Radon Membrane and associated accessories to provide 'full' radon protection
- Installed during construction for 'activation' post construction if required.

Installation

In line with the guidance provided by BR211:2015 Radon - Guidance on Protective Measures for New Buildings, for a typical domestic property a single sump will probably be sufficient. Where clean permeable fill has been used, a single sump is likely to have an influence over an area of approximately 250m² i.e. a radius of approximately 9m around the sump. If the subsoil is particularly permeable, a sump may be effective to a radius of up to 15m.

For buildings that are of modest size and regular shape, an edge-located sump may be acceptable, otherwise the sump should be positioned centrally under the property and be connected to an extraction pipe, terminating externally at the perimeter. To allow for maximum depressurisation, fill used beneath the slab should not contain excessive fines. Additional sumps can be interconnected using one of the available pipe outlets if the slab area exceeds 250m² or if ground gases are potentially restricted by ground beams/foundations. A single manifold or extraction unit can then be connected to the sump(s) if post construction radon testing deems it necessary.

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.



Installation (continued)

Generally, the guidance provided above relates to non-domestic buildings as well i.e. one sump will have an influence over approximately 250m² of floor area. There are however, opportunities for economies to be made in terms of the number of sumps and amount of pipework that need to be provided. With larger floor areas, several sumps can be interconnected to reduce the amount of pipework and number of extraction units that might need to be fitted in the future. In cases where the fill beneath a floor is uninterrupted by foundation walls, a single sump is likely to be effective over a floor area of up to 500 m².

Storage & Handling

Each sump can be manually handled and positioned. No special storage conditions are required.

Product Data

Product Reference	Cordek Radon Sump
Dimensions	510mm x 240mm + 110mm 5 no. inlets/outlets
Maximum Serviceable Area per Sump	<250m ²
Maximum Sumps per outlet Pipe	5no.
Outlet	Via Cordek 110mm diameter pipe
Material	Polypropylene
Colour	Black

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