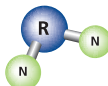


technical datasheet



Corden EPS Radon Membrane (Rn)



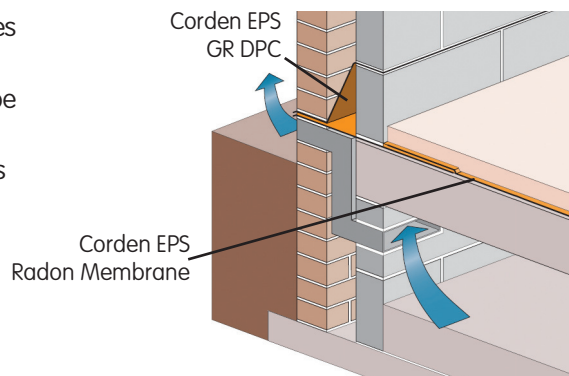
Radon is a naturally occurring radioactive gas formed by the breakdown of uranium and radium.

It is crucial that when gas protection is required, the site conditions, design and application are all taken into consideration to provide an impermeable membrane, protecting the most valuable asset, "the building" against the gases that can cause future problems.

The acceptable level of Radon which has been regarded as the "safe" threshold until recently has been 200Bq/m³ (Bequerols per cubic metre) however, more recent studies have proven that exposure to radon at levels between 100 and 200Bq/m³ is as hazardous, prompting the following questions by The Health Protection Agency.

The effectiveness of polythene sheeting is being questioned, particularly when it is formed from recycled material.

- Should the industry be considering a more robust product avoiding membranes manufactured from post consumer waste as described in BRE 211?
- In known radon affected areas, should the installed protective measures be inspected by Building Control Bodies?
- In known radon affected areas, should a percentage of newly built properties be post inspected?
- Would the use of a Radon Sump eliminate many of the problems caused by membrane failure?



Product Specification

Corden EPS Radon Membrane is a high quality LDPE blown film membrane. The product is used as part of a full radon gas protection system.

Physical Description	Test method	Value/Units
Weight		276g/m ²
Thickness		300µm
Colour		Anthracite
Roll Size		4m x 20m
Technical Performance		
Tensile strength	MD	17.7MPa
	CD	17.3MPa
Elongation at max load	MD	Greater than 860%
	CD	Greater than 910%
Dart impact strength		0.710kg
Tear Resistance	MD	100N/mm
	CD	94.5N/mm
Radon permeability		4.7 x 10 ⁻¹² m ² /s
Moisture Vapour transmission		0.12g/m ² /day

This blend gives the product immense strength, tear and puncture resistance when compared to ordinary DPM and other radon membranes. Because of its integral strength, it has no need for reinforcement and thus makes it suitable for use as a proprietary gas/damp proof membrane where resistance to puncture is key.

Corden EPS Radon Membrane prevents the transmission of unacceptable levels of harmful gases and due to the nature of its Construction, the membrane overcomes problems associated with products manufactured from post consumer waste.

Advantages

- Suitable for use on sites contaminated with higher concentrations of Radon
- 4 metre wide membrane
- Premium DPM/vapour barrier
- Corden EPS Radon Membrane should be laid in accordance with BRE 211 (2007)
- Extremely tough with excellent resistance to tear and puncture
- Compatible with vented systems

Placing

Corden EPS Radon Membrane should be laid in accordance with BRE 211 (2007).

Inspect for damage and repair tears/holes with a piece of membrane sealed down with double sided butyl tape and secured down with lap tape.

Availability

Corden EPS Radon barrier is available in a standard roll size of 4m x 20m.

Ancillary Products

• Corden EPS Gas Tape • Corden EPS Lap Tape • Corden EPS Top Hats • Corden EPS Radon Sumps • Corden EPS GRM
Separate data sheets available on request for all the above ancillary products.

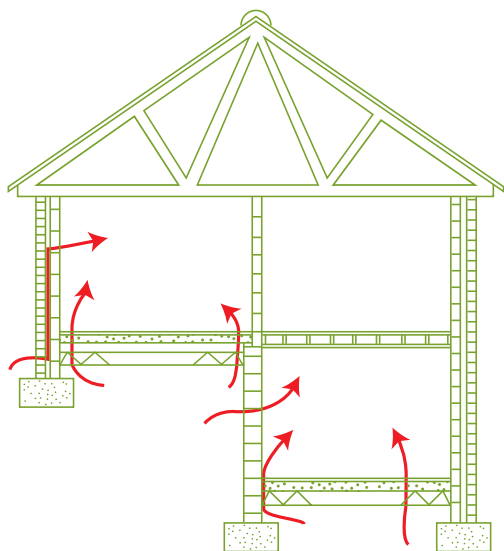
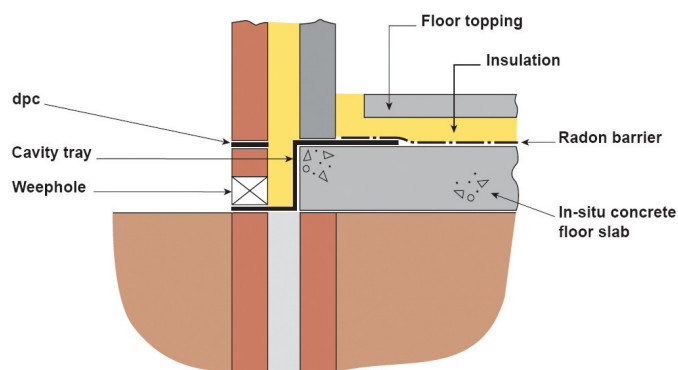
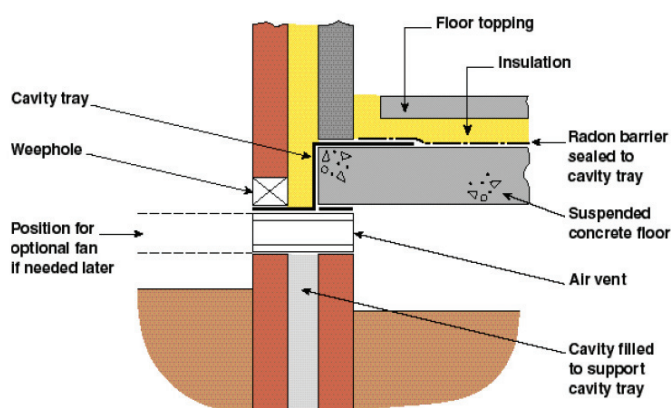
Storage

Store in original un-opened packaging in cool dry conditions avoiding direct sunlight.

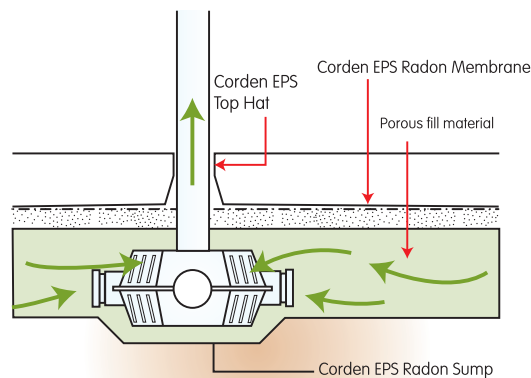
Health & Safety

There are no known hazards associated with Corden EPS Radon Membrane in normal use.

Typical Details



Radon Sump (for radon-affected areas)



leach way, burma road, blidworth industrial estate, blidworth, nottinghamshire ng21 0ru
tel 0115 965 6111 fax 0115 965 5151 email sales@cordengroup.co.uk web www.cordengroup.co.uk

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