

## Visqueen Radon Sump

### Features and benefits

- Provides sub-floor depressurisation when full radon protection is required
- Lightweight - easy to handle
- Multiple outlet ports

### Product description

Visqueen Radon Sump is a pre-fabricated sump unit manufactured from moulded black ABS plastic. The unit has four equidistant perimeter outlet ports, along with a central outlet port for vertical pipework installation.

The sump unit dimensions are 700mm x 700mm x 250mm high.

### Approvals and standards

- Visqueen certified with Quality Management System ISO 9001:2015
- Visqueen certified with Occupational Health and Safety System ISO 45001:2018
- Visqueen certified with Environmental Management System ISO 14001:2015

### Usage

Visqueen Radon Sump is required when full radon protection has been identified. The sump can be used in solid ground floor concrete slab applications and ventilated sub floor void applications.

Depending on the permeability of the soil type, the sump can draw the harmful radon gas from a radius distance of approximately 7m i.e. providing protection to an area of approximately 150m<sup>2</sup>.

In solid ground floor concrete slab applications, the sump should be positioned directly beneath the Visqueen radon membrane.

### System components

## Visqueen Radon Sump

### Storage and handling

Visqueen Radon Sump should be stored horizontally, under cover in its original packaging. The sump should not be exposed to long periods of ultraviolet light.

Care should be taken when handling the product in line with current manual handling regulations.

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### Preparation

Excavate a minimum 750mm x 750mm x 350mm deep pit within the hardcore fill. For maximum depressurisation ensuring that the hardcore fill used does not contain excessive fines.

Do not connect the Visqueen Radon Sump to any part of the drainage system.

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### Installation

Remove the end of one of the four outlet ports on the Visqueen Radon Sump by cutting along the groove at the perimeter of the port with a fine toothed saw.

Position the sump in the base of the excavated pit and ensure it is level. Connect a 110mm diameter plastic pipe to the prepared outlet port of the sump. Extend the pipe horizontally so that it passes through the external wall. Ensure that all joints and couplings are airtight.

Backfill using a clean permeable material without excessive fines. Terminate the pipework just above ground level and approximately 100mm from the external face of the external wall. Cap off the pipe with an access plug. The pipe will then be ready to extend and vent if and when necessary. Provide an identification plate on the wall to indicate the presence of the Radon Pipe. Do not connect the Visqueen Radon Sump to any part of the drainage system.

Where pipework is being installed vertically from the sump, ensure that all pipework joints and couplings are airtight, and that a Visqueen Preformed Top Hat is used where the pipework intersects with the Visqueen radon membrane.

Multiple sumps can be linked to a single 110mm diameter plastic pipe, however do not overload the system by linking excessive sump units.

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### Usable temperature range

Although there are no limitations to the usable temperature range for Visqueen Radon Sump, it is recommended that the Visqueen products associated with this system component should not be installed below 5°C.

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### Additional information

If the substructure is compartmentalised i.e. has enclosed areas, then a sump may be required in each area. These may be connected to a central manifold sump and exhausted in the manner described in the above Installation section.

The information in this datasheet was correct at the time of publication. It is the user's responsibility to obtain the latest version of the datasheet as it is updated on a regular basis. The information contained in the latest datasheet supersedes all previously published editions.



## Visqueen Radon Sump

Property	Value
Sump width x length	700mm x 700mm
Sump height	250mm
Diameter of plastic pipe to fit sump	110mm

### Health and safety information

Refer to the Visqueen Radon Sump safety datasheet (SDS).

## Visqueen Radon Sump

### About Visqueen

The Visqueen name has long been recognised as one of the leading manufacturers of high quality advanced membrane technologies and design based solutions by specifiers, distributors, builders merchants and contractors throughout the UK and Europe.

For further guidance on the Visqueen services shown below, please refer to the relevant section of the Visqueen website ([www.visqueen.com](http://www.visqueen.com)) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or [enquiries@visqueen.com](mailto:enquiries@visqueen.com)

### Complete Range, Complete Solution



Structural Waterproofing



Gas Protection



Damp Proof Membrane



Tapes



Damp Proof Course



Stormwater



Vapour Control

### Visqueen Technical Support

Visqueen combine an extensive product portfolio with industry leading levels of service and support which includes guidance over the phone, bespoke CAD drawings to help with complex detailing, electronic NBS specifications and access to a dedicated team of highly knowledgeable and experienced field based Technical Support Managers.

Visqueen Technical Support is available to all our customers including architects, specifiers, distributors, builders merchants, contractors and end users. All of our technical team have been awarded the industry recognised qualification Certificated Surveyor in Structural Waterproofing (CSSW).

### Visqueen CPD Seminars

The Visqueen Continuing Professional Development (CPD) Seminars provide up-to-date information on changes within Building Regulations/Building Standards and nationally recognised industry guidance affecting damp proofing, water vapour control, hazardous ground gas protection and below ground structural waterproofing.

The one hour seminars have been produced for design specialists within the construction sector and are delivered by our team of Technical Support Managers.

### Visqueen Training Academy

Based at our manufacturing facility in Derbyshire, the Visqueen Training Academy is available to support Visqueen customers throughout the UK by providing a wide range of both theory and practical skills related training.

Courses include one day product awareness training for our distributors and builders merchants to help them in their day-to-day jobs, through to intensive two day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.