Technical Datasheet

Visqueen Radon Sump

Features & 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 150m².

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

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.

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.

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

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.

Additional information

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Visqueen Radon Sump

If the substructure is comparmentalised 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.

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).

About Visqueen

Visqueen is a leading provider of construction membrane technologies and design-based solutions for ground gas, structural waterproofing, damp proofing and fire protection.

We offer complete support at every stage of the specification, including the supply chain process. As the UK's principal technical authority, we are best placed to ensure that the principal designer and contractor specify the most technically suited, durable, and competitive solution to guarantee their project is protected for the lifetime of the building.

Visqueen is at the forefront of advanced membrane technology and innovation in the construction industry, earning the trust and loyalty of specifiers throughout the UK and Europe.

For more information, visit visqueen.com or contact our sales office at +44 (0) 333 202 6800 or enquiries@visqueen.com

Complete Range, Complete Solution



Passive Fire Protection | Gas Protection | Damp Proof Membrane | Air and Vapor Control | Stormwater | Damp Proof Course | Temporary Protection

Visqueen Technical Support

Visqueen offer a comprehensive full nationwide technical support. Our team of CSSW qualified technical support managers provide on site design-based solutions for specifiers, contractors and builders merchants, and will ensure that from design stage to installation the project is fully risk assessed and the specification is approved by all stakeholders.

Our Technical Office, can design, prepare and manage CAD detailing, together with assisting in quantity take offs, while offering advice on technical installations and product selection.

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Competency & Design

Visqueen promotes competency in building design by ensuring that its technical team possesses the necessary skills, knowledge, experience, and ethical practices. The company adopts the "golden thread of information," ensuring all project data is digitally secure and accessible throughout a building's lifecycle. This approach aligns with the Building Safety Act and aims to foster accountability and compliance with evolving regulations, providing clients with confidence in the safety and reliability of their projects.

Visqueen CPD Seminars

Visqueen's CPD Seminars offer insights into Building Regulations, Standards, and industry guidance related to damp proofing, hazardous ground gas protection, and structural waterproofing. These one-hour seminars are tailored for construction design professionals and delivered by our Technical Support Managers. Visit our website to book a free CPD.

Visqueen Contract Design Services

Visqueen Contract Design Services offers a bespoke design service led by our team of Certified Surveyors in Structural Waterproofing (CSSW), providing experienced and specialised waterproofing design expertise for complex projects. We provide comprehensive support throughout the entire project, ensuring that all work meets the requirements of warranty providers and adheres to the highest standards of quality, reliability and current legislation.

Visqueen Training Academy

Based at our Derbyshire facility, the Visqueen Training Academy offers a variety of training programs across the UK. These include one-day product awareness sessions for distributors and builders' merchants, and intensive two-day courses for hands-on product installation training. Contact us for more information.

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