Technical Datasheet

Visqueen Preformed Units

Features & benefits

- Visqueen Preformed Units - part of the Visqueen Zedex and Visqueen Ultimate Gas DPC systems
- Off-site factory manufactured - reduces the risk of water ingress
- Three dimensional shapes - simplifies detailing at complicated junctions
- Flexible materials - provides an allowance for site tolerances
- Extensive range - used for both built-in and surface fixed cavity tray applications
- Used for both damp and gas proofing applications
- Compatible with all Visqueen damp and gas proof courses and membranes

Product description

Visqueen Preformed Units (PFUs) are factory manufactured three dimensional shapes. The units are formed from either Visqueen Zedex CPT High Performance DPC (Zedex Units) or Visqueen Ultimate Gas DPC (Ultimate Units).

Approvals and standards

- Visqueen Zedex CPT High Performance DPC awarded BBA Agrement Certificate No. 94/3059
- Visqueen Zedex CPT High Performance DPC UKCA UKNI CE to EN 14909:2012 Type A
- Zedex Units conforms to the specification requirements of NHBC Amber 1 applications
- Zedex Units conforms to the specification requirements of BR 211:2015
- Visqueen Ultimate Gas DPC UKCA UKNI CE to EN 14909:2012 Type A
- Ultimate Units conforms to the specification requirements of NHBC Amber 2 applications
- Ultimate Units comply with testing regime of CIRIA C748:2014
- Ultimate Units comply with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019
- 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 Preformed Units are designed for detailing complicated cavity tray junctions in masonry cavity wall constructions including walls with a light gauge steel frame, structural timber frame or masonry inner leaf.

The units can also be used for complex junctions associated with membrane applications within floor constructions, e.g. door thresholds and corners etc. The units can also be used to prevent harmful ground gases from entering into the building at the above junctions.

Visqueen Preformed Units should be approved by all stakeholders prior to use.

System components

- Visqueen Zedex DPC Surface Fixing System
- Visqueen DPC Joint Support

Storage and handling

Visqueen Preformed Units should be stored under cover in their original packaging.

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

Preparation

Where necessary Visqueen Preformed Units should be cut with a sharp retractable safety knife or robust scissors.

Installation

When used for sealing complicated junctions in cavity tray applications, VIsqueen Preformed Units should be installed prior to the main run of the cavity tray material, and the lap joints bonded with Visqueen 100mm Double Sided Butyl Tape.

Where the preformed unit is required to be surface fixed to the inner leaf of a cavity wall construction the vertical portion of the unit should be bonded to the inner leaf with Visqueen 100mm Double Sided Butyl Tape, the substrate having been previously primed with Visqueen High Performance Tanking Primer and allowed to dry.

Visqueen Zedex DPC Fixing Strip should be used to secure the upper edge of the unit using appropriate Visqueen Fixing Pins (or alternative approved) to provide a permanent mechanical fix.

To ensure long term integrity of the cavity tray lap, all preformed unit to DPC cavity tray laps formed on site should be fully supported and the support should remain in position. Unless formed over a permanent rigid supporting substrate, all laps should be formed with a Visqueen DPC Joint Support positioned directly beneath the lap.

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When used for sealing complex junctions in floor membrane applications, VIsqueen Preformed Units should be bonded and sealed with the same taping system as used for the membrane lap joints.

Usable temperature range

Refer to the Visqueen Preformed Units safety datasheet (SDS).

Additional information

Regarding cavity tray applications, for built-in internal and external corners see PFU-553 (90° unit) or PFU-501 (sloping unit)
For surface fixed internal and external corners see PFU-554 (90° unit) or PFU-502 (sloping unit)
For membrane corners see PFU-554 (box unit) or PFU-553 (inner leaf unit)
For door thresholds see PFU-206
For information on other available Visqueen Preformed Units, contact Visqueen Technical Services +44 (0) 333 202 6800

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.

Property	Test method	Units	Compliance criteria	Zedex Unit results	Ultimate Unit results
Thickness	BS EN 1849-2	mm	-10%/+10%	0.8	0.5
Weight	BS EN 1849-2	g/m²	-10%/+10%	750	470
Watertightness 2kPa	BS EN 1928	-	Pass/Fail	Pass	Pass
Resistance to low temperatures	BS EN 495-5	°C	MDV	-40	-40
Flexibility at temperatures	BS EN 1109	°C	MDV	-15	-15
Foldability	BS EN 495-5	°C	MDV	-40	-40
Durability (artificial ageing)	BS EN 1296 and BS EN 1928	-	Pass/Fail	Pass	Pass
Durability chemical resistance	BS EN 1847	-	Pass/Fail	Pass	Pass
Durability against alkali - Annex C	BS EN 14909	-	Pass/Fail	Pass	Pass
Resistance to static loading	BS EN 12730	kg	MLV	20	20
Water vapour transmission - resistance	BS EN 1931	MNs/g	MDV	372	1034
Water vapour transmission - permeability	BS EN 1931	g/m²/d	MDV	0.4	0.13
Radon permeability	SP Method no. 3873	m²/s	MDV	8.30×10^{-12}	-
Carbon dioxide permeability	ISO 2782:1995	m²/sec/Pa	MDV	1.58×10^{-16}	-
Methane permeability	ISO 15105-1	ml/m²/d/ atm	<40	-	1.3
Benzene, toluene, ethyl benzene, m p xylene (BTEX)	ISO 15105-2	ml/m²/d	MDV	-	<0.11
Reaction to Fire	BS EN 13501-1	Class	MDV	F	F

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Health and safety information

Refer to the Visqueen Preformed Units material safety datasheet (MSDS).

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.

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.

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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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