Technical Datasheet

Visqueen Zedex Non-Combustible Flexi Preformed Units

Features & benefits

- BDA Agrement certificated
- Visqueen Zedex Non-Combustible Flexi Preformed Unit (Flexi PFU) - part of the Visqueen Zedex Non-Combustible DPC system
- Flexi PFU achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 - compliant with UK Building Regulations
- Off-the-shelf surface fixed external and internal 90° corner units - reduced lead times
- Off-site factory manufactured - reduces the risk of water ingress
- Flexible 90° corner units - provides an allowance for site tolerances
- Corner units designed for approx. 50mm variance in cavity widths - each unit designed for cavity widths within a specific range

Product description

Visqueen Zedex Non-Combustible Flexi Preformed Units are manufactured from Visqueen Zedex Non-Combustible DPC. The range consists of surface fixed (face fixed) external and internal 90° corner units with a 150mm vertical rise and 100mm vertical fixing flange. The innovative design allows each unit to be suitable for an approximate 50mm cavity width variance when incorporated into a brickwork outer leaf.

External and internal surface fixed units are available for the following cavity width ranges: 40-100mm, 100-150mm, 150-200mm, 200-250mm, and 250-300mm. NB. Cavity width is measured from the cavity face of the inner leaf e.g. weather defence board, to the cavity face of the masonry outer leaf.

The units are rolled up, individually wrapped and supplied 4 per box.

Approvals and standards

- Visqueen Zedex Non-Combustible DPC and Visqueen Zedex Non-Combustible Flexi Preformed Units awarded BDA Agrement Certificate No. BAW-21-203-P-A-UK
- Flexi PFU achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018
- Flexi PFU shear strength tested to BS EN 1052-4:2000 Methods of test for masonry - Part 4.
- Flexi PFU flexural mortar bond strength tested to DD 86-1:1983
- 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 Zedex Non-Combustible Flexi Preformed Units are designed for detailing complicated cavity tray junctions in cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings. In conjunction with Visqueen Zedex Non-Combustible DPC cavity tray and associated system components, the units are used where a DPC cavity tray is required that achieves a minimum reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

Visqueen Zedex Non-Combustible Flexi Preformed Units are purpose-designed for use with a surface fixed, sloping Visqueen Zedex Non-Combustible DPC cavity tray featuring a 150mm vertical rise between the outer and inner leaves. The corresponding cavity tray profile is illustrated in Visqueen Drawing DPC-ZXNC-01 and DPC-ZXNC-03.

These preformed units are designed to accommodate 90° corners but can be adjusted on-site to suit alternative angles such as 135° for external corners or 80° for internal corners. When adapting the units for non-90° corners, any overlap pockets created must be fully sealed using Visqueen Zedex Mastic.

Visqueen Zedex Non-Combustible Flexi Preformed Units are not specifically designed for use with:
• an L shaped cavity tray profile
• a cavity tray profile that incorporates a horizontal insulation ledge
• a built in cavity tray
• a cavity tray vertical rise other than 150mm
However due to their flexibility, the units can often be manipulated to achieve these alternative cavity tray profiles.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Zedex Non-Combustible Flexi Preformed Units should be approved by all stakeholders prior to use.

To simplify complicated or awkward cavity tray junctions e.g. corners, steel columns, changes of level, etc., an extensive range of Visqueen Non-Combustible Preformed Units (rigid units manufactured from stainless steel) and Visqueen Zedex Non-Combustible Flexi Preformed Units (flexible units manufactured from Zedex Non-Combustible DPC) are available. Either type of unit can be used or they can be used in combination on the same project e.g. Flexi units at some corners and stainless steel units at others. Final decision on what is installed will lie with the stakeholders e.g. installer and design team.

System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip
- Visqueen DPC Joint Support

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Storage and handling

Visqueen Zedex Non-Combustible Flexi 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

Visqueen Zedex Non-Combustible Flexi Preformed Units can be cut with a sharp retractable safety knife or robust scissors.

Ensure that the unit is suitable for the external wall cavity width; the cavity width is measured from the cavity face of the inner leaf e.g. weather defence sheathing board, to the cavity face of the masonry outer leaf.

Installation

DPCs and DPC cavity trays systems should be designed and installed in accordance with the relevant sections of BS 8215:1991, PD 6697:2019 and BS 8000-3:2020.

Visqueen Zedex Non-Combustible Flexi Preformed Units must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration. NB During installation, internal corner units must be manipulated so that the red surface faces upwards or outwards.

When built into the outer leaf of a masonry wall construction the preformed units should be installed on an even bed of fresh mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the preformed units, lay at least one further course of masonry including a fresh bed of mortar. The preformed units must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

The preformed units are designed to be surface fixed (face fixed) to the inner leaf and allow for a 150mm vertical rise in the cavity tray profile.

When surface fixing the preformed unit to concrete, metal or weather defence sheathing boards unsuitable for stapling, the vertical flange of the unit should be permanently secured using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate. Use of Visqueen Zedex Mastic to hold the vertical flange of the preformed unit in position is optional and for installation convenience only.

When surface fixing the preformed unit to weather defence sheathing boards suitable for stapling, the vertical flange of the unit should be permanently secured using 12mm shank austenitic stainless steel staples at 150mm centres. Use of Visqueen Zedex Mastic to hold the vertical flange of the preformed unit in position is optional and for installation convenience only. Prior to adopting this fixing method, the suitability of the weather defence sheathing board for receiving staple fixings must be confirmed by the sheathing board manufacturer.

All DPC to Visqueen Non-Combustible Flexi Preformed Unit laps should be 100mm and fully sealed with Visqueen Zedex Mastic (refer to Visqueen Zedex Mastic datasheet). In accordance with British Standard codes of practice and warranty provider standards, to ensure long term lap integrity, all laps 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.

When Visqueen Non-Combustible Flexi Preformed Units are used for cavity widths less than the maximum designed for the unit, any excess DPC material protruding from the outer leaf should be carefully removed with a sharp retractable safety knife.

Usable temperature range

It is recommended that Visqueen Zedex Non-Combustible Flexi Preformed Units and associated system components should not be installed below 5°C.

Additional information

Please note that RCM Y-Wall calcium silicate cement based sheathing board has been identified as an unsuitable substrate for securing the cavity tray using the stapling method.
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.

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Visqueen Zedex Non-Combustible Flexi Preformed Units data table

Visqueen Zedex Non-Combustible Preformed Unit reference	Recommended minimum suitable cavity width	Recommended maximum suitable cavity width
External 40-100	40mm	100mm
External 100-150	100mm	150mm
External 150-200	150mm	200mm
External 200-250	200mm	250mm
External 250-300	250mm	300mm
Internal 40-100	40mm	100mm
Internal 100-150	100mm	150mm
Internal 150-200	150mm	200mm
Internal 200-250	200mm	250mm
Internal 250-300	250mm	300mm

Health and safety information

Refer to the Visqueen Zedex Non-Combustible Flexi Preformed Units 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.

Competency & Design

Visqueen promotes competency in building design by ensuring that its technical team possesses the necessary

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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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