Technical Datasheet

Visqueen Zedex Non-Combustible DPC Cavity Tray

Features & benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 by Warrington Fire - compliant with UK Building Regulations
- Independent durability testing - proven long-term performance
- Flexible preformed corner units available - Visqueen Zedex Non-Combustible Flexi PFUs
- Range of system components - Visqueen Non-Combustible Fixing Strip and DPC Joint Supports available

Product description

Visqueen Zedex Non-Combustible Damp Proof Course (DPC) cavity tray achieves a reaction to fire classification A2 - s1, d0. The product is compliant with the requirements of The Building Regulations 2010 (England and Wales) (as amended), The Building (Scotland) Regulations 2004 (as amended) and The Government Of Ireland Building Regulations Technical Guidance Document B 2024.

The DPC is a flexible 0.6mm composite damp proof course and cavity tray system. It is supplied in 20m length rolls and the following standard widths: 100mm, 150mm, 225mm, 300mm, 450mm, 500mm, 600mm, 700mm, 800mm and 900mm. Other widths are available on request.

The DPC is coloured red on the upper surface and pale grey on the reverse and is installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration.

Approvals and standards

- Third party accreditation (BDA certificate BAW-21-203-P-A-UK)
- UKCA UKNI CE to EN 14909:2012 Type A
- Compliant with UK Building Regulations
- Compliant with Government of Ireland Technical Guidance Document B 2024
- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 by Warrington Fire
- Shear strength tested to BS EN 1052-4:2000 Methods of test for masonry - Part 4.
- Flexural mortar bond strength tested in accordance with 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 Damp Proof Course cavity tray is designed for cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings. Typical applications include being used as a vertical DPC, or as a site formed surface fixed or built-in cavity tray to manage the downward passage of water in cavity wall constructions.

The product is used where a DPC or DPC cavity tray is required that achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

In circumstances where the external wall construction consist of a masonry inner leaf e.g. blockwork, Visqueen Zedex Non-Combustible DPC can either be surface fixed or built in to the inner leaf. Please note that in accordance with Building Regulation Approved Document B, the requirement for a non-combustible DPC cavity tray does not apply to DPC cavity trays when used between two leaves of masonry.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Zedex Non-Combustible DPC 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
- Visqueen Non-Combustible Preformed Units
- Visqueen Zedex Non-Combustible Flexi Preformed Units [SC]

Storage and handling

Visqueen Zedex Non-Combustible Damp Proof Course should be stored vertically, under cover in its original packaging. In these circumstances, the product has an unlimited shelf life.

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

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Preparation

Visqueen Zedex Non-Combustible Damp Proof Course can be cut with a sharp retractable safety knife or robust scissors.

Installation

DPCs and DPC cavity trays systems to 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 DPC cavity tray must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration.

When built into the outer leaf of a masonry wall construction the DPC 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 DPC, lay at least one further course of masonry including a fresh bed of mortar. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf depending upon the type of wall construction.

When surface fixing the cavity tray to substrates such as concrete, metal or weather defence sheathing boards unsuitable for stapling, the vertical flange of the DPC 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 DPC cavity tray in position is optional and for installation convenience only.

When surface fixing the cavity tray to weather defence sheathing boards suitable for stapling, the vertical flange of the DPC 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 DPC cavity tray 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.

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.

All DPC to DPC laps, DPC to Visqueen Non-Combustible Preformed Unit laps, and DPC to Visqueen Zedex Non-Combustible Flexi Preformed Unit laps should be 100mm and sealed with sufficient Visqueen Zedex Mastic to create a 100mm wide bonded lap. 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.

Usable temperature range

It is recommended that Visqueen Zedex Non-Combustible Damp Proof Course and associated system components should not be installed below 5°C.

Additional information

For additional detailing information contact Visqueen Technical Services +44 (0) 333 202 6800.

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 Damp Proof Course data table

Property	Test method	Compliance criteria	Results
Standard widths, mm	BS EN 1848-2	+/- 5%	100, 150, 225, 300, 450, 500, 600, 700, 800, 900
Length, m	BS EN 1848-2	+/- 5%	20
Thickness, microns	BS EN 1849-2	+/- 10%	600
Reaction to fire	BS EN 13501-1		Class A2-s1,d0
Mass, gsm	BS EN 1849-2	+/- 5%	695
Watertightness to 2kPa for 24 hours	BS EN 1928	MDV	Pass
Tensile strength, MPa (MD and CD)	BS EN 12311-2	MLV	30
Nail tear, N (MD and CD)	BS EN 12310-1	MLV	300
Impact, mm	BS EN 12691 Method B	MLV	1000
Durability against ageing	BS EN 1296	MDV	Pass
Durability against chemicals	BS EN 1847	MDV	Pass
Product durability	Custom-developed		Minimum 60 years
Foldability @ -25°C	BS EN 495-5	MDV	Pass
Joint strength, N/50mm	BS EN 12317-2	MLV	400

Health and safety information

Refer to the Visqueen Zedex Non-Combustible Damp Proof Course 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

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Visqueen Zedex Non-Combustible DPC Cavity Tray

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.

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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