

Visqueen Zedex Non-Combustible Damp Proof Course

A2 - s1, d0 to BS EN 13501-1:2018

Features and benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 by Warrington Fire - compliant with UK Building Regulations
- Flexible cavity tray system - lightweight, easy to detail and install on site
- Excellent strength and tear resistance - robust and resistant to on-site damage
- Visqueen Non-Combustible Preformed Units available - simplifies complex or awkward detailing
- Range of system components - Visqueen Non-Combustible Fixing Strip and DPC Joint Supports available

Product description

Visqueen Zedex Non-Combustible Damp Proof Course (DPC) 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) and The Building (Scotland) Regulations 2004 (as amended).

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: 300mm, 450mm, 500mm, 600mm, 700mm, 800mm and 900mm. Other widths are available on request including 100mm and 150mm.

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 CE Mark EN 14909:2012 Type A
- Compliant with UK Building Regulations
- 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
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen Zedex Non-Combustible Damp Proof Course and 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 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.

System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 25mm x 1240mm
- Visqueen Non-Combustible Preformed Units
- Visqueen DPC Joint Support

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NEW **VISQUEEN** **CLASS B FR**
VAPOUR CHECK

- Visqueen Class B FR Vapour Check is a fire resistant AVCL (air and vapour control layer)
- Surpasses all national Building Regulations and Standards for air and vapour control layers
- Fire classification B - s1, d0
- Competitive, efficient and fully tested system (including tapes) for fire resistance

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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.

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 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, the DPC should be sealed to the inner leaf using Visqueen Zedex Mastic and permanently secured using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate. For typical sections see Visqueen drawings DPC-ZXNC-02 and DPC-ZXNC-03.

To simplify complex or awkward junctions e.g. corners, steel columns, changes of level, etc., an extensive range of Visqueen Non-Combustible Preformed Units are available.

All DPC to DPC laps, and DPC to Visqueen Non-Combustible Preformed Unit laps should be 100mm and sealed with Visqueen Zedex Mastic (refer to Visqueen Zedex Mastic datasheet). 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. For typical joint support profiles see Visqueen drawing PFU-NC-660.

Minimum spacing between DPC to DPC laps should be 900mm, i.e. adjacent cavity tray laps to be spaced at least 900mm apart. Where such laps occur at less than 900mm, back to back stop ends should be considered.

There are no minimum spacing requirements between DPC to Visqueen Non-Combustible Preformed Unit laps.

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 surface fixing to structural framing systems see Visqueen drawings DPC-ZXNC-02 and DPC-ZXNC-03.

When cutting of master rolls is being undertaken e.g. using a lathe, please refer to the product material safety datasheet.

For additional detailing information 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.

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

Health and safety information

Refer to the Visqueen Zedex Non-Combustible Damp Proof Course safety datasheet (SDS).

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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) or contact Visqueen Technical Services on +44 (0) 333 202 6800 or enquiries@visqueen.com

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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 PI designs and special projects

From initial design to the completed project, Visqueen are with you every step of the way. Whether it be hazardous ground gas protection and/or below ground waterproofing protection employing barrier, structurally integral or drained systems, Visqueen can offer professional indemnity (PI) insurance for bespoke Visqueen design solutions.

Visqueen Technical Support Managers work with all stakeholders to provide cost effective Visqueen solutions offering complete peace of mind throughout the construction phase and beyond.

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 three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.