

Visqueen A2 Vapour Barrier

Features and benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018
- Versatile application - used within floor, wall and roof constructions
- Single wound - rapid installation

Product description

Visqueen A2 Vapour Barrier is a multi-layer reinforced aluminium AVCL (air and vapour control layer). The product has a reflective aluminium finish on the upper surface and a matt aluminium surface on the reverse. The barrier is supplied in single wound rolls (not folded), 1.2m x 50m long.

Approvals and standards

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018
- BS 5250:2021 Management of moisture in buildings - code of practice
- UKCA CE UKNI Mark EN 13984:2013
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- Environmental Management System ISO 14001:2015

Usage

Visqueen A2 Vapour Barrier is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018. The barrier is used to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

The barrier restricts the passage of warm, moist air within the building from permeating into the floor, wall or roof structure.

The barrier is designed to be installed to the warm side of floors, walls and roofs and is suitable for humidity classes 1, 2, 3, 4 and 5 to BS 5250:2021.

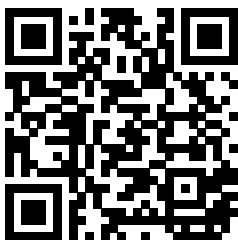
For conformity with the reaction to fire classification, usage of Visqueen FR+ Vapour Tape must not exceed 10% of the area of the Visqueen A2 Vapour Barrier. Contact Visqueen Technical Services for guidance prior to the specification or use of any other tapes with this barrier other than that shown in the system components section of this datasheet.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen A2 Vapour Barrier should be approved by all stakeholders prior to use.

System components

- Visqueen FR+ Vapour Tape

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Visqueen A2 Vapour Barrier

Storage and handling

Visqueen A2 Vapour Barrier should be stored horizontally, under cover in its original packaging.

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

Preparation

When fixing the barrier to the substrate, e.g. timber or metal stubs, the surface should be smooth, clean, dry and free from dust or sharp protrusions.

The barrier can be cut with a sharp retractable safety knife or robust scissors.

Installation

Visqueen A2 Vapour Barrier should be installed in accordance with the recommendations of BS 5250:2021 Management of moisture in buildings - code of practice. The barrier should be installed on the warm side of the insulated structure, with care being taken to ensure that all laps, penetrations and abutments are sealed. The barrier should be continuous in order to ensure optimum airtightness and vapour control performance.

All joints in the barrier should be lapped by 75mm and sealed with Visqueen FR+ Vapour Tape applied centrally over the lap. To aid formation laps should be made over a solid substrate.

Ensure barrier continuity at the junction of horizontal and vertical substrates. Seal abutments with Visqueen FR+ Vapour Tape applied centrally over the junction. Failure to suitably connect the barrier to other building elements will severely reduce airtightness and vapour control performance.

For conformity with the reaction to fire classification, usage of Visqueen FR+ Vapour Tape must not exceed 10% of the area of the Visqueen A2 Vapour Barrier.

Ensure the barrier is not damaged in service due to residual heat from light fittings. The barrier should not be subjected to gravity forces (unsupported) such as on the underside of roof decks or the underside of floor structures, and should be suitably mechanically secured to ensure that it remains in position during service.

Visqueen air and vapour control layers (AVCLs) do require permanent mechanical fixing, normally achieved by over-boarding the AVCL with a plasterboard or other construction board.

Usable temperature range

It is recommended that Visqueen A2 Vapour Barrier and all associated system components should not be installed below 5°C.

Additional information

Contact Visqueen Technical Services for guidance prior to the specification or use of any other tapes with this barrier other than that shown in the system components section of this datasheet.

Care should be taken to prevent the AVCL from becoming punctured, stretched or displaced when installing plasterboard or other construction board over the installed AVCL.

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.

Visqueen A2 Vapour Barrier

Property	Test method	Units	Compliance criteria	Result
Length	EN 1848-2	m	-2%/+10%	50
Width	EN 1848-2	m	-2.5%/+2.5%	1.2
Mass	EN 1849-2 1	g/m ²	-5%/+5%	165
Tensile strength - MD	EN 12311	N/50mm	MLV	>700
Tensile strength - CD	EN 12311	N/50mm	MLV	>700
Elongation - MD	EN 12311	%	MLV	>2.5
Elongation - CD	EN 12311	%	MLV	>2.5
Reaction to fire	EN 13501-1	-	-	A2-s1, d0
Water tightness	EN 1928	-	Pass/Fail	Pass
Durability (artificial ageing)	EN 1296 and EN 1928	-	Pass/Fail	Pass
Tear resistance - MD	EN 12310-1	N	MDV	>150
Tear resistance - CD	EN 12310-1	N	MDV	>120
Water vapour resistance - Sd	EN 1931	m	MDV	>1500
Emissivity	EN 15956		MDV	<0.05
Thermal resistance of an adjacent airspace		m ² K/W	MDV	0.606

Health and safety information

Refer to the Visqueen A2 Vapour Barrier material safety datasheet (MSDS).

Visqueen A2 Vapour Barrier

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

Complete Range, Complete Solution



Structural Waterproofing



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.