Technical Datasheet

Visqueen A2 Vapour Barrier

Features & benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018, compliant with UK Building Regulations
- UKCA UKNI CE to EN 13984:2013 - achieves Building Regulation and warranty provider requirements
- Used in floor, wall and roof constructions
- Single wound roll

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
- Air leakage tested to BS EN 1026:2016
- UKCA UKNI CE to EN 13984:2013
- 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 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, 75mm x 25m

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 bonding Visqueen A2 Vapour 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.

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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 0°C.

Additional information

Contact Visqueen Technical Office on 0333 202 6800 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.

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	Result
Length	BS EN 1848-2	m	-2%/+10%	50
Width	BS EN 1848-2	m	+/-2.5%	1.2
Mass	BS EN 1849-2	g/m²	+/-5%	165
Tensile strength - MD	BS EN 12311	N/50mm	MLV	>700
Tensile strength - CD	BS EN 12311	N/50mm	MLV	>700
Elongation - MD	BS EN 12311	%	MLV	>2.5
Elongation - CD	BSEN 12311	%	MLV	>2.5
Reaction to fire	BS EN 13501-1	-	-	A2-s1, d0
Water tightness	BS EN 1928	-	Pass/Fail	Pass
Durability (artificial ageing)	BS EN 1296 and BS EN 1928	-	Pass/Fail	Pass
Tear resistance - MD	BS EN 12310-1	N	MDV	>150
Tear resistance - CD	BS EN 12310-1	N	MDV	>120
Water vapour resistance	BS EN 1931 method B	MNs/g	MDV	17,730
Water vapour permeability	BS EN 1931 method B	g/m²/d	MDV	0.01
Water vapour resistance factor	BS EN 1931 method B	µ	MDV	25,064,829
Equivalent air layer thickness Sd	BS EN 1931	m	MDV	>1500
Emissivity	BS EN 15956	-	MDV	<0.05
Thermal resistance of an adjacent airspace		m²K/W	MDV	0.606
Air leakage	BS EN 1026:2016	m³/h/m² @ ±100 Pa	<5	0
Thickness	BS EN 1849-2	mm	+/-5%	0.148

Health and safety information

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

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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.

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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