Technical Datasheet

Visqueen Class B FR Vapour Check

Features & benefits

- Fire Classification B - s1, d0 surpasses all national Building Regulations for air and vapour control layers - suitable for all building heights including residential over 18m high
- UKCA UKNI CE to EN 13984:2013 - achieves Building Regulation and warranty provider requirements
- Third party tested to EN 13501-1:2018 - fully tested AVCL system (including tapes)
- Convenient 2.45m wide roll for wall applications - rapid installation reducing the need for horizontal lap joints
- Used in floor, wall and roof constructions - provides air tightness, water vapour resistance and reduces the risk of condensation

Product description

Visqueen Class B FR Vapour Check is an orange tinted, semi transparent modified flame retardant polyethylene AVCL (air and vapour control layer). The product is 0.125mm thick (500 gauge).

The membrane is supplied in centre-folded rolls 2.45m x 50m and multi-folded rolls 4m x 50m.

Approvals and standards

- System achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018
- Air leakage to BS EN 1026:2016
- UKCA UKNI Mark 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 Class B FR Vapour Check is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018. The membrane is used to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

The membrane restricts the passage of warm, moist air within the building from permeating into the floor, wall or roof structure and is designed to be installed on the warm side of the structure.

For conformity with the reaction to fire classification, usage of Visqueen FR Double Sided Vapour Tape must not exceed 11% of the area of the Visqueen Class B FR Vapour Check.

For conformity with the reaction to fire classification, usage of Visqueen FR Single Sided Vapour Tape must not exceed 11% of the area of the Visqueen Class B FR Vapour Check.

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

System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m

Storage and handling

Visqueen Class B FR Vapour Check 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 Class B FR Vapour Check to a substrate, e.g. metal or timber studwork, the surface should be smooth, clean, dry and free from dust or sharp protrusions.

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

Installation

Visqueen Class B FR Vapour Check should be installed in accordance with the recommendations of BS 5250:2021 Management of moisture in buildings - code of practice. The membrane 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 membrane should be continuous in order to ensure optimum airtightness and vapour control performance.

Apply Visqueen FR Double Sided Vapour Tape to securely bond the membrane to structural components, including vertical studs, horizontal noggins, head plates, and sole plates. Progressively peel off the tape release film and apply the membrane ensuring adhesion e.g. with a seam roller. This tape contributes to maintaining the integrity

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of the air and vapour control layer by reducing the potential for air and vapour leakage following the mechanical installation of plasterboard or construction board over the membrane.

All joints in the membrane should be lapped by minimum 75mm and sealed with Visqueen FR Single Sided Vapour Tape applied centrally over the lap. To aid formation laps should be made over a solid substrate e.g. located over studs or noggings.

Ensure membrane continuity at the junction of horizontal and vertical substrates. Seal abutments with Visqueen FR Single Sided 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.

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For conformity with the reaction to fire classification, usage of Visqueen FR Single Sided Vapour Tape must not exceed 11% of the area of the Visqueen Class B FR Vapour Check.

Ensure the membrane is not damaged in service due to residual heat from light fittings. The membrane 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) require permanent mechanical fixing, normally achieved by over-boarding the AVCL with a plasterboard or other construction board.

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.

Usable temperature range

It is recommended that Visqueen Class B FR Vapour Check and all associated system components should not be installed below 0°C.

Additional information

For additional detailing information, contact Visqueen Technical Office on 0333 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.

Property	Test method	Units	Compliance criteria	Value or statement
Reaction to fire	BS EN 13501-2	Class		B-s1, d0
Length	BS EN 1848-2	m	-10%/+10%	50
Width	BS EN 1848-2	m	-2.5%/+2.5%	2.45 or 4
Thickness	BS EN 1849-2	mm	-12%/+12%	0.125 (500 gauge)
Mass	BS EN 1849-2	g/m²	-12%/+12%	128
Tensile strength - MD & CD	BS EN 12311	N/mm²	>MLV	15
Tensile elongation - MD & CD	BS EN 12311	%	>MLV	400
Joint Strength	BS EN 12317-2	N	MDV	83
Watertightness @ 2kPa for 24 hours	BS EN 1928	-	Pass/Fail	Pass
Resistance to impact (method B)	BS EN 12691	mm	>MLV	200
Water vapour resistance	BS EN 1932	MNs/g	MDV	303
Water vapour permeability	BS EN 1931	g/m²/d	MDV	0.548
Water vapour resistance factor	BS EN 1931	μ	MDV	484883
Equivalent air layer thickness Sd	BS EN 1931	m	MDV	66
Air leakage with taped joints	BS EN 1026:2016	m³/h/m² @ ±100 Pa	<5	0
Resistance to tearing - Nail tear MD & CD	BS EN 12310-1	N	MLV	60

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Health and safety information

Refer to the Visqueen Class B FR Vapour Check 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 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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