

Visqueen Class B FR Vapour Check

Features and 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

Visqueen Class B FR Vapour Check

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.

Visqueen FR Double Sided Vapour Tape is available for bonding the membrane to substrates such as metal or timber studs or noggings.

All joints in the membrane should be lapped by minimum 75mm (some warranty providers require minimum 100mm) 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) do 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 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 Class B FR Vapour Check

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	-12.5%/+12.5%	0.125 (500 gauge)
Mass	BS EN 1849-2	g/m ²	-12.5%/+12.5%	128
Tensile strength - MD	BS EN 12311	N/mm ²	>MLV	15
Tensile strength - CD	BS EN 12311	N/mm ²	>MLV	15
Tensile elongation - MD	BS EN 12311	%	>MLV	400
Tensile elongation - 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 factor (μ -value)	BS EN 1931	-	MDV	484883
Water vapour transmission - permeability	BS EN 1931	g/m ² /d	MDV	0.548
Equivalent air layer thickness (Sd)	BS EN 1931	m	MDV	66
Water vapour resistance	BS EN 1932	MNs/g	MDV	303
Air leakage with taped joints	BS EN 1026:2016	m ³ /h/m ² @ \pm 100 Pa	<5	0
Resistance to tearing - Nail tear (MD and CD)	BS EN 12310-1	N	MLV	60

Health and safety information

Refer to the Visqueen Class B FR Vapour Check 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

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