

Visqueen Fully Bonded Vapour Barrier

Features and benefits

- Used within floor, wall and roof constructions
- UKCA UKNI CE to EN 13984:2013 - achieves Building Regulation and warranty provider requirements
- Self adhesive application - no jointing tapes required
- Self adhesive coating - self seals around mechanical fixings

Product description

Visqueen Fully Bonded Vapour Barrier is a foil lined modified bitumen rubber membrane with a self adhesive coating protected by a removable polyethylene release film. It is silver on the upper surface and supplied in rolls 1m x 20m.

Approvals and standards

- 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 Fully Bonded Vapour Barrier is an air and vapour control layer (AVCL) and is used in high condensation risk buildings, or where a fully bonded vapour barrier is required to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

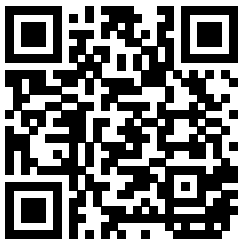
The barrier restricts the passage of warm, moist air within the building from permeating into the floor, wall or roof structure.

The barrier is designed to be installed to the warm side of floors, walls and roofs. It is suitable for all BS 5250:2021 humidity classes including those with high internal humidities e.g. laundries and swimming pools.

System components

- Visqueen HP Tanking Primer, 5L
- VisqueenPro Single Sided Vapour Edge Tape, 150mm x 15m

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Visqueen Fully Bonded Vapour Barrier

Storage and handling

Visqueen Fully Bonded Vapour Barrier should be stored vertically 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 Fully Bonded Vapour Barrier to the substrate e.g. plywood, the surface should be smooth, clean, dry and free from dust or sharp protrusions. The substrate should be primed with Visqueen HP Tanking Primer and allowed to dry prior to barrier application.

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

Installation

Visqueen Fully Bonded 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 membrane should be continuous in order to ensure optimum vapour control performance.

All lap joints in the barrier should be a minimum of 75mm and should be pressed and rolled to form a continuous bond.

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

Ensure the barrier is not damaged in service due to residual heat from light fittings.

When used as an air and vapour control layer on flat warm roof constructions, the substrate should be primed with Visqueen HP Tanking Primer and allowed to dry prior to barrier application. Long periods of exposure to ultraviolet light will reduce the effectiveness of the barrier. The barrier should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc.

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.

Usable temperature range

It is recommended that Visqueen Fully Bonded Vapour Barrier should not be installed below 5°C.

The barrier requires no additional bonding methods however during cold weather conditions the application of hot air to the self adhesive coating will aid adhesion.

Additional information

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.

Visqueen Fully Bonded Vapour Barrier

Property	Test method	Units	Compliance criteria	Result
Length	BS EN 1848-2	m	0%/+5%	20
Width	BS EN 1848-2	m	-5%/+5%	1
Thickness	BS EN 1849-2	mm	-5%/+10%	1
Weight	BS EN 1849-2	g/m ²	-10%/+10%	1100
Watertightness to 60kPa for 24 hours	BS EN 1928	-	MDV	Pass
Durability after artificial ageing	BS EN 1847	-	Pass/Fail	Pass
Durability against chemicals	BS EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) MD	BS EN 12310-1	N	MLV	100
Resistance to tearing (nail shank) CD	BS EN 12310-1	N	MLV	100
Resistance to Impact	BS EN 12691	mm	MLV	500
Joint resistance	BS EN 12317-1	N	MLV	30
Tensile properties - MD	BS EN 12311-2	N/mm ²	MLV	2
Tensile properties - CD	BS EN 12311-2	N/mm ²	MLV	2
Tensile elongation - MD	BS EN 12311-1	%	MLV	130
Tensile elongation - CD	BS EN 12311-2	%	MLV	130
Reaction to fire	BS EN 13501-1	Class	MDV	F
Mean water vapour resistance factor	BS EN 1931	(μ)	MDV	3960000
Mean water vapour resistance	BS EN 1931	MNs/g	MDV	23760
Mean water vapour permeability	BS EN 1931	g/m ² /day	MDV	0.03
Water vapour resistance - Sd	BS EN 1931	m	MDV	>1500
Air leakage	BS EN 1026:2016	m ³ /h/m ² @ ±100 Pa	<5	0

Health and safety information

Refer to the Visqueen Fully Bonded Vapour Barrier 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 three day courses giving detailed hands-on training in the practical skills required for safe and robust product installation.