

Fully Bonded Vapour Barrier

CE Mark to EN 13984

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- Reduces the likelihood of interstitial condensation
- Vapour resistance of 2000 MNs/g
- Self Adhesive Membrane
- Supplied in single wound sheeting which reduces the risk of cracks in screed

Description

Visqueen Fully Bonded (FB) Vapour Barrier is used to omit the risk of interstitial condensation within a structure as well as improving the general airtightness of the building. Visqueen FB Vapour Barrier restricts the passage of warm, moist air from within the building from permeating into the structure or the roof. It is commonly used within timber frame housing as well as commercial buildings.

Visqueen FB Vapour Barrier is a tough multi layer reinforced HDPE membrane with an aluminium foil.

Applications

Warm roof construction applications

Visqueen FB Vapour Barrier is deal for use on roof (primed) decks, on concrete, beam and block and plywood surfaces; ensuring the white (non adhesive) side is facing upwards.

Screed applications

Visqueen FB Vapour Barrier can be used on most rigid insulation boards; ensuring the white (non adhesive) side is facing upwards.

Vertical Applications

Visqueen FB Vapour Barrier can also be used on primed walls; ensuring the membrane is loaded after installation to prevent the product delaminating.

Under no circumstances should the product be subjected to gravity forces (unloaded) such as underneath roof decks.

Visqueen FB Vapour Barrier provides a means of protecting the warm side of the thermal insulation incorporated in a building by creating a barrier to the movement of warm, moist air. Visqueen FB Vapour Barrier is a self adhesive membrane designed for use in roofs, walls and floors subjected to humidity levels less than 60% at 20 degrees Celsius (BS5250: 2002 class 4 and 5 conditions) e.g. domestic dwellings with high occupancy, sports halls, swimming pools, communal shower areas, laundries, canteens and buildings with wet industrial processes.

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Installation

Fixing

Visqueen Vapour Control Layers should be installed in accordance with the

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recommendations of BS5250: 2002 'Code of practice for control of condensation in buildings'. Visqueen FB Vapour Barrier should be installed on the "warm" side of the insulated structure, with special care being taken to ensure that all seams and holes are sealed effectively - thus rendering the whole structure moisture and vapour proof and improving thermal performance.

It is important that Visqueen FB Vapour barrier should be continuous in order to prevent vapour entering the wall or the roof.

Visqueen High Performance Fully Bonded Vapour Barrier should be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface.

Damaged areas should be repaired by patching with an oversize piece of the same material. Ensure the surface is clean and dry prior to application of the patch. Extend by a minimum of 75mm beyond the damaged area and roll firmly with a lap roller to ensure complete adhesion and continuity.

Priming

Ensure that the surface to be treated is free from loose particles, dry and frost free. Installation should be in accordance with BS 8102. All surfaces should be sealed using Visqueen Tanking Primer Solution and allowed to dry thoroughly.

Visqueen Tanking Primer (5L tin) – for preparation of surfaces prior to application of self adhesive vapour barrier. Coverage rate on concrete is 4-6m² per litre. Drying time is 4-8 hours depending on temperature and ventilation.

Additional System Components

Visqueen Preformed Top Hat unit –preformed unit for sealing around service pipe penetrations.

Precautions

Visqueen Vapour Control Layers are classified as non-hazardous when used in accordance with BS5250: 2002. Care should be taken to avoid accidental damage when handling the membranes on site. Membrane installation is not recommended below 5oC. Visqueen Vapour Control Layers are not intended for use where they will be exposed for long periods of outdoor weathering.

When the Vapour Barrier is to be installed near a light fitting please consult with Building Control or the Architect on the suitability of the product. Material softening point is declared in our technical data.

The control of condensation to within safe limits is an important consideration in the design and construction of buildings. The occupants of a building and their associated activities produce water vapour which, if unmanaged, can condense within or between building elements; a process referred to as interstitial condensation. This condensation can have serious detrimental effects upon the fabric of the building such as causing the decay of timber elements and corrosion of metal components, and reducing the thermal effectiveness of insulating materials. With the progressive increases in thermal efficiencies of buildings in order to reduce energy usage, any reduction in the effectiveness of the installed insulation can have long term financial implications. The negative effect upon the fabric of the building increases the incidence of moulds and mildews, which in turn can have a harmful effect upon the health of the building occupants.

Technical Data and CE Mark

Visqueen Vapour Check complies with the requirements and clauses of EN 13984 - Flexible sheets for waterproofing - Plastic and rubber vapour control layers - Definitions and characteristics.



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Product Data

Product Data

heading	Characteristic	Test method	Units	Compliance criteria	Value or statement
	Length	EN 1848-2	m	-0%/+5%	20
	Width	EN 1848-2	m	-5%/+5%	1
	Thickness	EN 1849-2	mm	-5%/10%	1
	Mass	EN 1849-2	g/m2/	-10%/10%	1100
	Watertightness	EN 1928	-	Pass/Fail	Pass 60Kpa
	Durability after artificial ageing)	EN 1847	-	Pass/Fail	Pass 60Kpa
	Durability against chemicals	EN 1847	-	Ps	Pass 60Kpa
	Resistance to tearing (nail shank) MD	EN 12310-1	N	>	100
	Resistance to tearing (nail shank) CD	EN 12310-1	N	>	100
	Water vapour transmission properties	EN 1931	g/m2/d	MDV	0.013
	Resistance to static loading	EN 12730	Kg	>MLV	20
	Resistance to Impact	EN 12691	nn	>	500
	Reaction to fire	EN 13501-1		Class	F
	Joint Resistance	EN 12317-1	N	>	30
	Tensile properties - MD	EN 12311-2	N/mm2	>	2
	Tensile properties - CD	EN 12311-2	N/mm2	>	2
	Tensile Elongation - MD	EN 12311-1	%	>	130
	Tensile Elongation - CD	EN 12311-2	%	>	130
	Reaction to Fire	EN 13501-1	Class	MDV	F



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Appendix A



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Visqueen Building Products

Visqueen is the market leader in the manufacture and supply of structural waterproofing and gas protection systems. Visqueen offers the complete package - a proven, reliable range backed by a technical support service that goes unmatched in the market - everything you would expect from a reputable and ethical company.

System Accessories

To ensure full waterproofing protection please use the following certified system components:

- Visqueen High Performance (HP) Tanking Primer
- Visqueen TreadGUARD1500
- Visqueen Protect&Drain
- Visqueen Top Hat Unit

Downloads Library

- Technical Datasheet
- Declaration of Performance
- Visqueen's Guide to CE Marking

Find your local stockist

Search our directory of Visqueen specification Stocking Centres to locate your nearest Visqueen Partner.

Distributor Support

Our specification Stocking Centres can access a free library of sales support tools, bespoke catalogues and more, [click here](#).

Technical support throughout your project

We are specialists in our field and can help you specify the correct solutions with the necessary performance levels, in accordance with building regulations.

- Nationwide site support team
- Specification advice
- Installation guidance & project sign off
- System design including CAD details

