Visqueen High Performance 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
- Suitable for all BS 5250:2021 humidity classes - prevents damage to structure and insulation
- Single wound roll

Product description

Visqueen High Performance Vapour Barrier is a multi-layer reinforced polyethylene barrier with a 20 micron aluminium foil. The barrier is coloured blue on the upper surface and silver on the reverse. The product is supplied in single wound rolls (not folded), 2m x 50m long.

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 High Performance Vapour Barrier is an air and vapour control layer (AVCL) and is used in high condensation risk buildings 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 from 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 FR Double Sided Vapour Tape, 20mm x 50m
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m
- VisqueenPro Single Sided Vapour Edge Tape, 150mm x 15m

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Visqueen High Performance Vapour Barrier

Storage and handling

Visqueen High Performance 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 High Performance 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 High Performance 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.

Where the barrier is to be fixed to timber or metal studs, apply sufficient strips of Visqueen FR Double Sided Vapour Tape to the vertical and horizontal studs, head and sole plates, etc to ensure that the barrier remains in position until the plasterboard or construction board is mechanically fixed in position over the barrier. Progressively peel off the tape release film and apply the barrier ensuring adhesion at the tape locations .e.g. by rollering with a seam roller.

The barrier should be installed with the foil (silver) side facing the warm inside of the building.

All joints in the barrier should be lapped by a minimum of 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.

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. 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 High Performance Vapour Barrier and all associated system components should not be installed below 0°C.

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.

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Visqueen High Performance Vapour Barrier

Property	Test method	Units	Compliance criteria	Result
Visible defects	BS EN 1850 -2	-	Pass/Fail	Pass
Length	BS EN 1848-2	m	-0%/+10%	50
Width	BS EN 1848-2	m	-0%/+10%	2
Thickness	BS EN 1849-2	mm	-12.5%/+12.5%	0.52
Mass	BS EN 1849-2	g/m^2	-12.5%/+12.5%	345
Tensile strength - MD	BS EN 12311	N	MLV	515
Tensile strength - CD	BS EN 12311	N	MLV	550
Tensile elongation - MD	BS EN 12311	%	MLV	17
Tensile elongation - CD	BS EN 12311	%	MLV	15
Joint strength	BS EN 12317-2	N	MLV	332
Watertightness to 2kPa for 24 hours	BS EN 1928	-	Pass/Fail	Pass
Resistance to impact	BS EN 12691	mm	>MLV	200
Low temperature flexibility	BS EN 495-5	°C	-40	Pass
Durability (artificial ageing)	BS EN 1296 and BS EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	BS EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	BS EN 12310-1	N	MDV	358
Resistance to tearing (nail shank) MD	BS EN 12310-1	N	MDV	368
Water vapour resistance factor	BS EN 1931	μ	MDV	120,000,000
Water vapour resistance	BS EN 1931	MNs/g	MDV	240,000
Water vapour permeability	BS EN 1931	g/m^2 /day	MDV	0.0008658
Reaction to fire	BS EN 13501-1	Class	MDV	F
Equivalent air layer thickness	BS EN 1931	m	MDV	47,700
Air leakage	BS EN 1026:2016	$m^3/h/m^2$ @ ±100 Pa	<5	0

Health and safety information

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

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com

Technical support: +44 (0) 333 202 6800

Date Published: 28/05/2024

Visqueen High Performance Vapour Barrier

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.

Heanor Gate Road, Heanor, Derbyshire, DE75 7RG
+44 (0) 333 202 6800 I enquiries@visqueen.com I www.visqueen.com