



Visqueen Vapour Barrier

Features and benefits

- Used within floor, wall and roof constructions
- Single wound
- Semi-transparent - stud locations visible through membrane

Product description

Visqueen Vapour Barrier is a green tinted, semi-transparent polyethylene air and vapour control layer (AVCL). The membrane is supplied in single wound (not folded) 2.0m x 50m roll format.

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 Vapour Barrier is an air and vapour control layer (AVCL) and is used in medium 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 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.

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

Visqueen Vapour Barrier

Storage and handling

Visqueen 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 Vapour Barrier to the substrate, e.g. timber or metal studs, 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 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 barrier 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 rolling with a seam roller.

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) 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 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.

Visqueen Vapour Barrier

| Property | Test method | Units | Compliance criteria | Result |
|--|---------------------------|--|---------------------|--------|
| Visible defects | BS EN 1850 -2 | - | Pass/Fail | Pass |
| Length | BS EN 1848-2 | m | -2%/+10% | 50 |
| Width | BS EN 1848-2 | m | -2.5%/+2.5% | 2 |
| Thickness | BS EN 1849-2 | mm | -10%/+10% | 0.3 |
| Mass | BS EN 1849-2 1 | g/m ² | -12.5%/+12.5% | 270 |
| Tensile strength - MD | BS EN 12311 | N/mm ² | MLV | 20 |
| Tensile strength - CD | BS EN 12311 | N/mm ² | MLV | 19 |
| Tensile elongation - MD | BS EN 12311 | % | MLV | 560 |
| Tensile elongation - CD | BS EN 12311 | % | MLV | 697 |
| Joint strength | BS EN 12317-2 | N | MLV | 219 |
| Watertightness to 2kPa for 24 hours | BS EN 1928 | - | Pass/Fail | Pass |
| Resistance to impact | BS EN 12691 | mm | >MLV | 250 |
| 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 | 185 |
| Resistance to tearing (nail shank) MD | BS EN 12310-1 | N | MDV | 185 |
| Flexibility at low temperature | BS EN 1109 | °C | MDV | -15 |
| Water vapour transmission - resistance | BS EN 1931 | MNs/g | MDV | 633 |
| Water vapour transmission - permeability | BS EN 1931 | g/m ² /d | MDV | 0.21 |
| Water vapour resistance - Sd | BS EN 1931 | m | MDV | 128 |
| Air leakage | BS EN 1026:2016 | m ³ /h/m ² @ ±100 Pa | <5 | 0 |

Health and safety information

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

Visqueen 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.