



## Visqueen Vapour Barrier

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.

### FEATURES AND BENEFITS

- Versatile application - used within floor, wall and roof constructions
- Suitable for BS 5250:2021 humidity class 2 - prevents damage to structure and insulation
- Single wound - rapid installation
- Semi-transparent - stud locations visible through membrane

### APPROVALS AND STANDARDS

- BS 5250:2021 Management of moisture in buildings - code of practice
- UKCA CE UKNI Mark EN 13984:2013
- Quality Management System ISO 9001:2015
- Occupational Health and Safety System ISO 45001:2018
- 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 subjected to humidity levels less than 50% at 20°C (BS 5250:2021 humidity class 2) e.g. offices, shops and dwellings with low occupancy.

### SYSTEM COMPONENTS

- VisqueenPro Double Sided Vapour Tape, 20mm x 50m
- VisqueenPro Single Sided Vapour Tape, 75mm x 15m
- VisqueenPro Single Sided Vapour Edge Tape, 150mm x 15m

### 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 the 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 VisqueenPro 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 VisqueenPro 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 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.

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.

PROPERTY	TEST METHOD	UNITS	COMPLIANCE CRITERIA	RESULT
Visible defects	EN 1850 -2	-	Pass/Fail	Pass
Length	EN 1848-2	m	-0%/+10%	50
Width	EN 1848-2	m	-0%/+10%	2
Thickness	EN 1849-2	mm	12.5%/+12.5%	0.3
Mass	EN 1849-2 1	g/m <sup>2</sup>	12.5%/+12.5%	270
Tensile strength - MD	EN 12311	N/mm <sup>2</sup>	MLV	20
Tensile strength - CD	EN 12311	N/mm <sup>2</sup>	MLV	19
Tensile elongation - MD	EN 12311	%	MLV	560
Tensile elongation - CD	EN 12311	%	MLV	697
Joint strength	EN 12317-2	N	MLV	219
Watertightness 2kPa	EN 1928	N	Pass/Fail	Pass
Resistance to impact	EN 12691	mm	>MLV	250
Durability (artificial ageing)	EN 1296 and EN 1928	-	Pass/Fail	Pass
Durability chemical resistance	EN 1847	-	Pass/Fail	Pass
Resistance to tearing (nail shank) CD	EN 12310-1	N	MDV	185
Resistance to tearing (nail shank) MD	EN 12310-1	N	MDV	185
Flexibility at low temperature	EN 1109	°C	MDV	-15
Water vapour transmission - resistance	EN 1931	MNs/g	MDV	633
Water vapour transmission - permeability	EN 1931	g/m <sup>2</sup> /day	MDV	0.21
Water vapour resistance - Sd	EN 1931	m	MDV	128

## HEALTH AND SAFETY INFORMATION

Refer to the Visqueen Vapour Barrier material safety datasheet (MSDS).

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