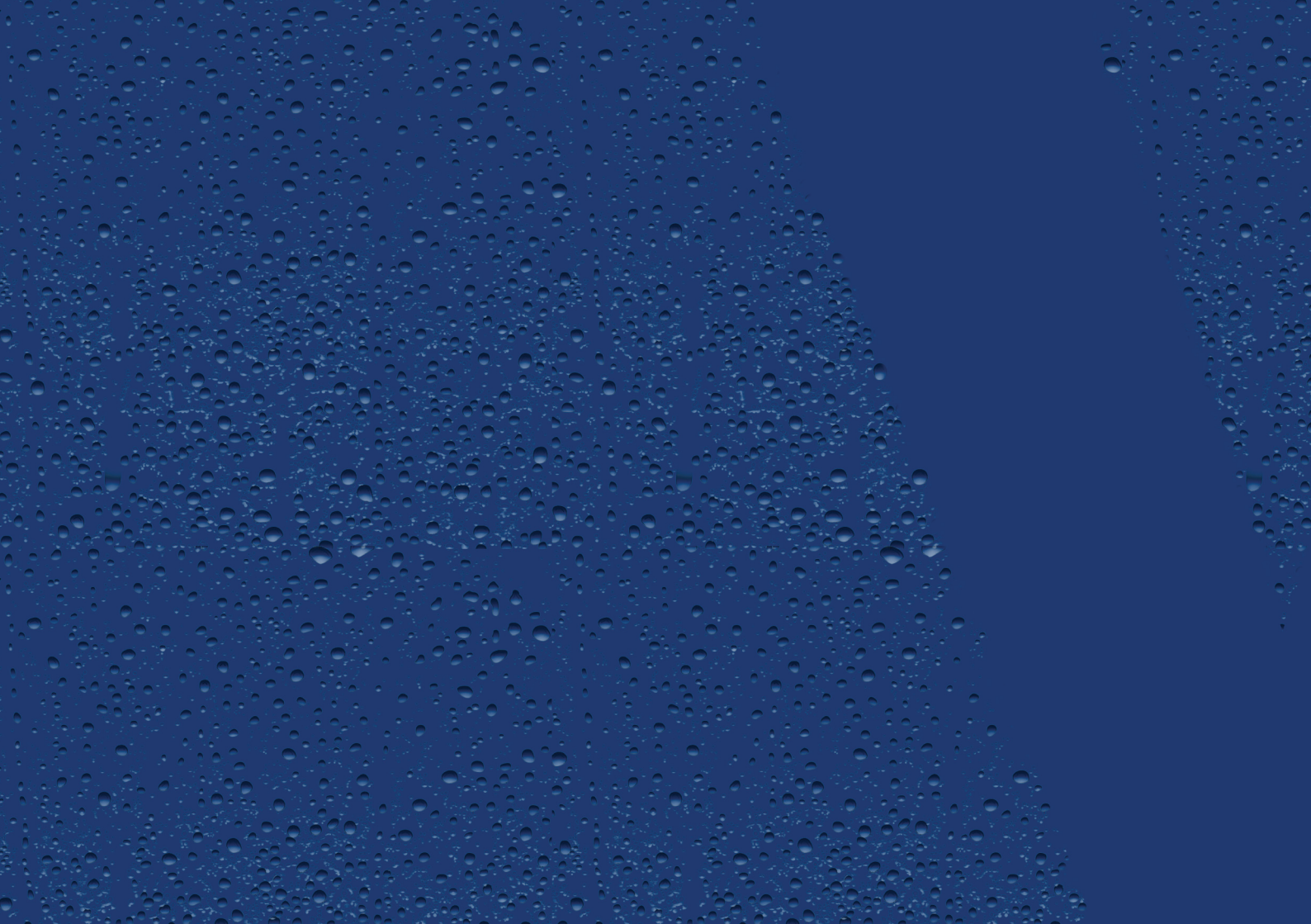
VISQUEEN

Product Guide April 2026

Complete range - Complete solution





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Building the Future - Protecting the Present

For more than 50 years, the construction industry has placed its trust in Visqueen products and design services to safeguard a wide range of residential and commercial buildings against harmful ground-based gases, water ingress, damp and fire. Visqueen is at the forefront of innovation technologies, earning the trust and loyalty of industry professionals throughout the UK and Europe.

The following pages provide you with product information across our diverse product portfolio.

For further information and technical support please call our Technical Office +44 (0) 333 202 6800

Notes

Passive Fire Protection



Passive Fire Protection AVCL

Product description

Visqueen A2 Vapour Barrier is a multi-layer reinforced aluminium AVCL (air and vapour control layer). The product has a reflective aluminium finish on the upper surface and a matt aluminium surface on the reverse. The barrier is supplied in single wound rolls (not folded), 1.2m x 50m long.

Usage

Visqueen A2 Vapour Barrier is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018. The barrier is used 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 and is suitable for humidity classes 1, 2, 3, 4 and 5 to BS 5250:2021.

For conformity with the reaction to fire classification, usage of Visqueen FR+ Vapour Tape must not exceed 10% of the area of the Visqueen A2 Vapour Barrier.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen A2 Vapour Barrier should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 - compliant with UK Building Regulations
- Used within floor, wall and roof constructions
- Single wound roll



Installation

Visqueen A2 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 airtightness and vapour control performance.

All joints in the barrier should be lapped by 75mm and sealed with Visqueen FR+ Vapour Tape applied centrally over the lap. To aid formation laps should be made over a solid substrate.

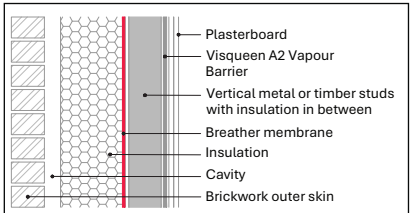
Ensure barrier continuity at the junction of horizontal and vertical substrates. Seal abutments with Visqueen FR+ Vapour Tape applied centrally over the junction. Failure to suitably connect the barrier to other building elements will severely reduce airtightness and vapour control performance.

Please note that the product's A2 fire classification does not cover the use of any alternative tapes.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR+ Vapour Tape, 75mm x 25m



Typical section through external wall. Location of breather membrane (by others) may vary depending upon specification.



Installation

Visqueen Class B FR Vapour Check should be installed in accordance with the recommendations of BS 5250:2021 Management of moisture in buildings - code of practice. The membrane 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 airtightness and vapour control performance.

Visqueen FR Double Sided Vapour Tape is available for bonding the membrane to substrates such as metal or timber studs or noggings.

All joints in the membrane should be lapped by minimum 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 e.g. located on studs or noggings.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m (5 rolls per box)
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m (5 rolls per box)

Product description

Visqueen Class B FR Vapour Check is an orange tinted, semi transparent modified polyethylene AVCL (air and vapour control layer).

The membrane is supplied in centre-folded rolls 2.45m x 50m and multi-folded rolls 4m x 50m.

Usage

Visqueen Class B FR Vapour Check is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018. The membrane is used to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

The membrane restricts the passage of warm, moist air within the building from permeating into the floor, wall or roof structure and is designed to be installed on the warm side of the structure.

For conformity with the reaction to fire classification, usage of Visqueen FR Single Sided Vapour Tape must not exceed 10% of the area of the Visqueen Class B FR Vapour Check.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Class B FR Vapour Check should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018 - compliant with UK Building Regulations
- Used within floor, wall and roof constructions
- Large format roll

VISQUEEN CLASS B FR VAPOUR CHECK

Passive Fire Protection Preformed Cavity Tray Units

Product description

Visqueen Non-Combustible Preformed Units are factory manufactured, made to order, three dimensional shapes. The units are manufactured as standard from stainless steel to BS EN 10088 grade 1.4301 (BS 1449 grade 304). Other stainless steel grades are also available.

Usage

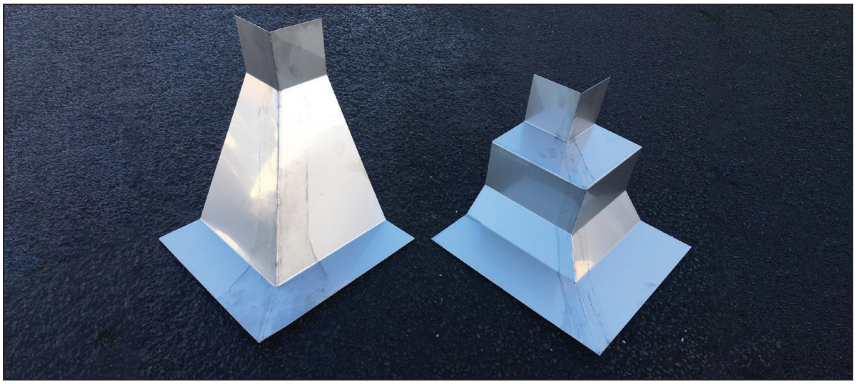
Visqueen Non-Combustible Preformed Units are designed for detailing complicated junctions in cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings.

In conjunction with Visqueen Zedex Non-Combustible DPC and associated system components, the units are used where a DPC cavity tray is required that achieves a minimum reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

Care should be taken by the Designer to ensure suitability for applications other than those stated above.

Features and benefits

- Range of rigid non-combustible units - provides cavity tray design solutions at complicated junctions
- Off-site factory manufactured - reduces the risk of water ingress
- Three dimensional shapes - simplifies complex detailing
- Extensive range - suitable for a variety of awkward cavity tray locations such as corners or changes in level
- Available for different surface fixed cavity tray profiles



Installation

When used for sealing complex junctions in cavity tray applications, VIsqueen Non-Combustible Preformed Units should be installed prior to the main run of the cavity tray material.

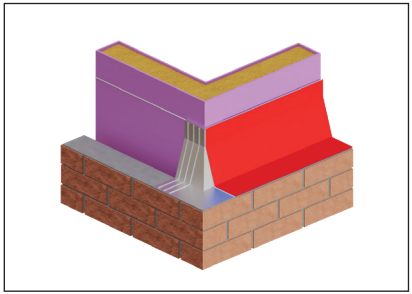
All DPC to Preformed Unit laps should be a minimum of 100mm and sealed with Visqueen Zedex Mastic.

Where the Preformed Unit is surface fixed to the inner leaf of a cavity wall construction, the vertical portion of the unit should be sealed to the inner leaf with Visqueen Zedex Mastic. Visqueen Non-Combustible Fixing Strip should be used to secure the upper edge of the unit to provide a permanent mechanical fix using stainless steel fixings appropriate for the substrate.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 per pack





Installation

Visqueen Zedex Non-Combustible Flexi Preformed Units must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration. NB During installation, internal corner units must be manipulated so that the red surface faces upwards or outwards.

The preformed units are designed to be surface fixed (face fixed) to the inner leaf and allow for a 150mm vertical rise in the cavity tray profile. When surface fixing the preformed units to weather defence boards, they should be permanently secured to the inner leaf substrate using 12mm shank austenitic stainless steel staples at 150mm centres.

When surface fixing the preformed units to concrete, masonry, etc., they should be permanently secured to the inner leaf substrate using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 per pack
- Visqueen DPC Joint Support

Product description

Visqueen Zedex Non-Combustible Flexi Preformed Units are manufactured from Visqueen Zedex Non-Combustible DPC. The range consists of surface fixed (face fixed) external and internal 90 degree corner units with a 150mm vertical rise and 100mm vertical fixing flange. The innovative design allows each unit to be suitable for an approximate 50mm cavity width variance when incorporated into a brickwork outer leaf.

External and internal surface fixed units are available for the following cavity width ranges: 40-100mm, 100-150mm, 150-200mm, 200-250mm, and 250-300mm.

NB. Cavity width is measured from the cavity face of the inner leaf e.g. weather defence board, to the cavity face of the masonry outer leaf. The units are rolled up, individually wrapped and supplied 4 per box.

Usage

Visqueen Zedex Non-Combustible Flexi Preformed Units are specifically designed for use with a surface fixed, sloping Visqueen Zedex Non-Combustible DPC cavity tray with a 150mm vertical rise between the outer and the inner leaf. This cavity tray profile is shown in Visqueen drawing DPC-ZXNC-03. The units are designed to fit a 90 degree masonry corner.

Features and benefits

- Off-the-shelf surface fixed external and internal 90 degree corner units - reduced lead times
- Off-site factory manufactured - reduces the risk of water ingress
- Flexible 90 degree corner units - provides an allowance for site tolerances
- Corner units designed for approx. 50mm variance in cavity widths - each unit suitable for cavity widths within a specific range

VISQUEEN
ZEDEX NON-COMBUSTIBLE FLEXI PREFORMED UNITS

Product description

Visqueen Zedex Non-Combustible Damp Proof Course (DPC) achieves a reaction to fire classification A2 - s1, d0. The product is compliant with the requirements of The Building Regulations 2010 (England and Wales) (as amended) and The Building (Scotland) Regulations 2004 (as amended).

The DPC is a flexible 0.6mm composite damp proof course and cavity tray system. It is supplied in 20m length rolls and the following standard widths: 100mm, 150mm, 225mm, 300mm, 450mm, 500mm, 600mm, 700mm, 800mm and 900mm.

Usage

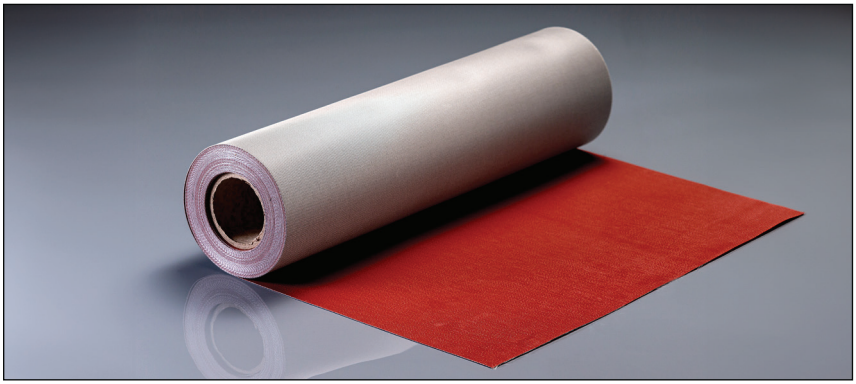
Visqueen Zedex Non-Combustible Damp Proof Course and cavity tray is designed for cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings.

The product is used where a DPC or DPC cavity tray is required to achieve a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Zedex Non-Combustible DPC should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fre classifcation A2 - s1, d0 to BS EN 13501-1:2018 by Warrington Fire - compliant with UK Building Regulations
- Flexible preformed corner units available - Visqueen Zedex Non-Combustible Flexi PFUs
- Range of system components - Visqueen Non-Combustible Fixing Strip and DPC Joint Supports available



Installation

Visqueen Zedex Non-Combustible DPC must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration.

When surface fixing the preformed units to weather defence boards, they should be permanently secured to the inner leaf substrate using 12mm shank austenitic stainless steel staples at 150mm centres.

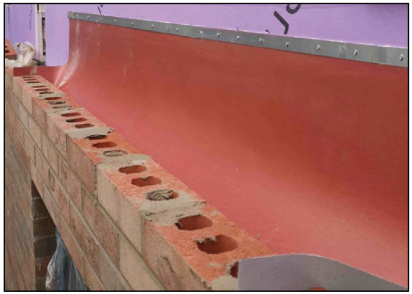
When surface fixing the preformed units to concrete, masonry, etc., they should be permanently secured to the inner leaf substrate using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate.

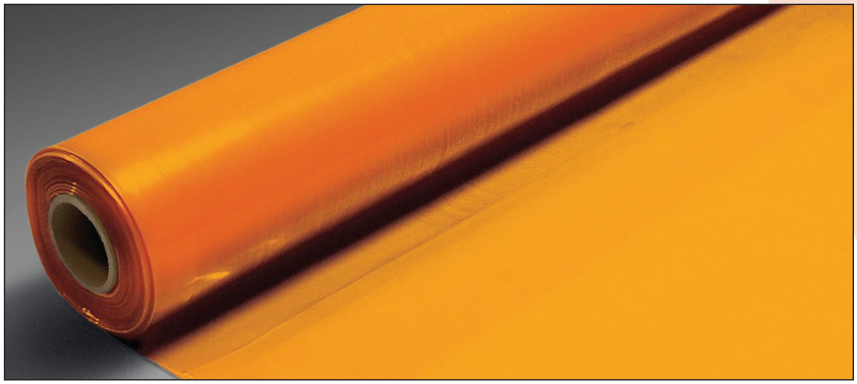
When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf depending upon the type of wall construction.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 strips per pack
- Visqueen Non-Combustible Preformed Units
- Visqueen DPC Joint Support
- Visqueen Zedex Non-Combustibe Flexi Preformed Units





Installation

Unroll Visqueen Flame Retardant Polythene Protection and cut to fit the area that needs protecting. For large covered areas it may be necessary to lap adjacent film sheets and a taped joint is recommended to ensure continuity of protection. When taping, allow an overlap of at least 50mm and secure the joint using Visqueen FR Single Sided Tape. Prior to taping ensure that the lap area is clean and free from dust and any moisture.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen FR Single Sided Tape, 50mm x 50m

Product description

Visqueen Flame Retardant Polythene Protection is manufactured using virgin polymers with specific additives to ensure the product is flame retardant to LPS1207 - Loss Prevention Standard cert no. 1792a/02.

The sheeting is supplied as centre folded rolls on a supporting core. Standard roll sizes are:

- 4m x 25m x 250 micron (Orange)
- 4m x 50m x 65 micron (White)

Usage

Visqueen Flame Retardant Polythene Protection can be used for screening off individual areas, draping and for a variety of surfaces. The product can be easily cut and re-sized for pallet hood / cover protection.

Flame retardant sheeting can be also used in various other applications whilst buildings undergo refurbishment work or in new build construction projects whilst also providing protection from dust and the risks of electrical hazards.

Features and benefits

- LPS1207 cert.no 1792a/01 - 3rd party flame retardant certification for Temporary Protection materials
- Large roll format - Ideal for draping, screening, covering or hanging. Quick and easy installation.
- Flame retardant - helps reduce the risk of losses from fires on construction sites
- 0.25mm (1000 gauge) thick - Approved for asbestos removal or wrapping film

VISQUEEN FLAME RETARDANT POLYTHENE PROTECTION

Notes

Gas protection



Product description

Visqueen Gas Barrier NF-400 is a co-extruded, multi-layer thermoplastic gas membrane, 0.4mm thick (400 micron). The membrane is available either transparent with a blue tint or coloured blue/white and supplied 2.4m x 43.5m in a single wound roll.

Usage

Visqueen Gas Barrier NF-400 is suitable for use in all types of buildings to prevent the ingress of harmful levels of methane, carbon dioxide and radon.

The barrier can be positioned above or below reinforced cast in situ concrete floor slabs e.g. ground bearing, suspended or raft, or above precast suspended segmental subfloors, e.g. beam and block floor.

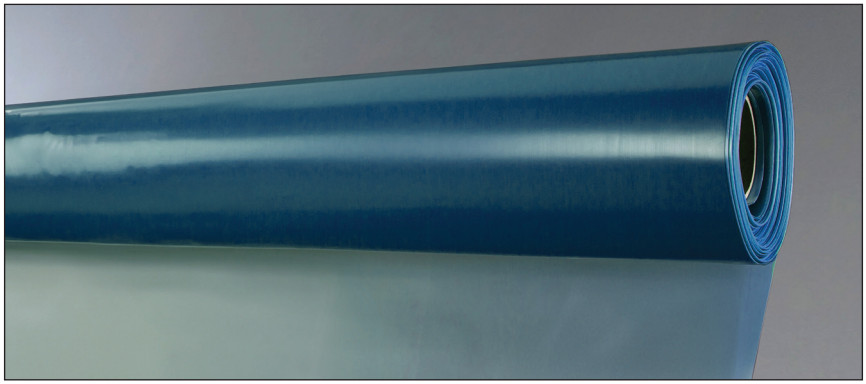
The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

Radon, carbon dioxide, and methane protection - NHBC NF94 guidance:

Visqueen Gas Barrier NF-400 when installed with either welded or taped joints complies with NHBC Foundation's NF94 publication, Hazardous ground gas - an essential guide for housebuilders, in Type A membrane locations in precast suspended segmental subfloors and reinforced cast in situ concrete floor slabs (ground bearing, suspended or raft).

Features and benefits

- BDA Agrement Certification - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type A membrane locations - non foil system
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Multi functional - also acts as a radon and damp proof membrane
- Dual jointing methods - depending upon specification, lap joints can be heat welded or taped



Installation

Visqueen Gas Barrier NF-400 should be loose laid on the substrate ensuring that the barrier sheet edges are aligned allowing adequate overlap for jointing between the sheets. The transparent barrier can be laid either side facing upwards, the blue/white barrier must be installed with the blue surface facing upwards or outwards.

The barrier lap area should be clean and dry at the time of jointing. The barrier has been designed to exhibit superior welding properties using hot wedge and hot air welding, therefore onsite welding of all lap joints is recommended. When hot air hand welding the lap joints, the joint should be overlapped by approximately 100mm and an approximate 35mm weld is normally achieved. During hand welding, the lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved.

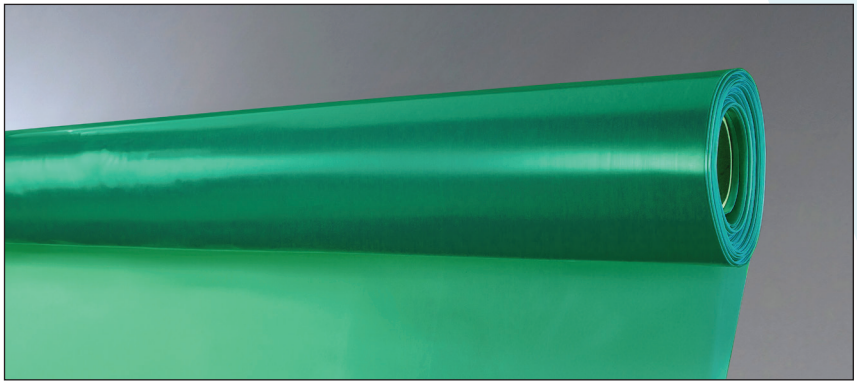
When taping the lap joints, the joint should be overlapped by approximately 100mm and bonded with VisqueenPro Double Sided Jointing Tape (positioned approximately 25mm from the edge of the sheet) and sealed with Visqueen NF-60 Lap Tape or Visqueen NF-150 Lap Tape depending upon the project specification. The lap joints should be firmly compressed using a hand roller during taping to ensure an adequate bond is achieved.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen NF-60 Lap Tape, 60mm x 45m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen NF-Detailing Strip, 300mm and 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m





Installation

Visqueen Ultimate Gas Barrier NF-500 should be loose laid on the substrate ensuring that the barrier sheet edges are aligned allowing adequate overlap for jointing between the sheets. The transparent barrier can be laid either side facing upwards, the green/white barrier must be installed with the green surface facing upwards or outwards.

The barrier lap area should be clean and dry at the time of jointing. The barrier has been designed to exhibit superior welding properties using hot wedge and hot air welding, therefore onsite welding of all lap joints is recommended. When hot air hand welding the lap joints, the joint should be overlapped by approximately 100mm and an approximate 35mm weld is normally achieved. During hand welding, the lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved.

When taping the lap joints, the joint should be overlapped by approximately 100mm and bonded with VisqueenPro Double Sided Jointing Tape (positioned approximately 25mm from the edge of the sheet) and sealed with Visqueen NF-150 Lap Tape. The lap joints should be firmly compressed using a hand roller during taping to ensure an adequate bond is achieved

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen NF-Detailing Strip, 300mm x 10, 500mm x 10m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units, 110mm, 135mm and 160mm

Product description

Visqueen Ultimate Gas Barrier NF-500 is a co-extruded, multi-layer thermoplastic volatile organic compound barrier and gas barrier, 0.5mm thick (500 micron). The membrane is available either transparent with a green tint or coloured green/white and supplied 2.4m x 43.5m in a single wound roll.

Usage

Visqueen Ultimate Gas Barrier NF-500 is suitable for use in all types of buildings to prevent the ingress of harmful levels of volatile organic compounds (VOCs), methane, carbon dioxide and radon. The barrier can be positioned above or below reinforced cast in situ concrete floor slabs e.g. ground bearing, suspended or raft, or above precast suspended segmental subfloors, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane. Where protection against VOCs or hydrocarbon contamination is required, the barrier system should be applied with welded joints.

Features and benefits

- Agrement certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type A and Type B membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 – industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Dual jointing methods - depending upon specification, lap joints can be taped or heat welded

VISQUEEN GAS BARRIER NF-500

Product description

Visqueen Ultimate Gas Barrier NF-600 is a co-extruded, multi-layer thermoplastic volatile organic compound barrier and gas barrier, 0.6mm thick (600 micron). The membrane is available as either transparent with a blue tint or coloured blue/white and supplied 2m x 50m in a single wound roll.

Usage

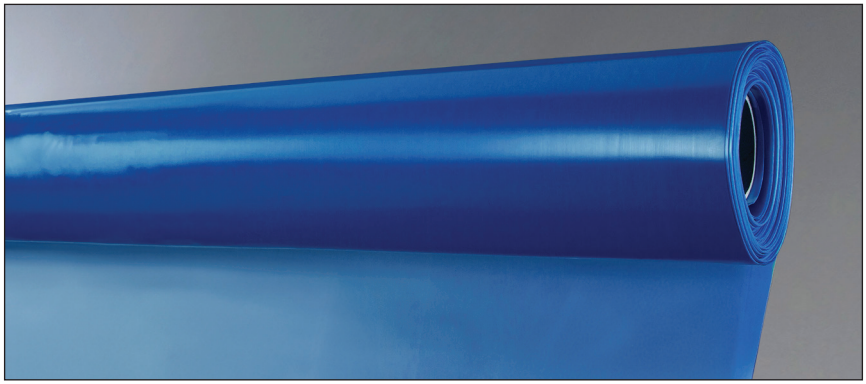
Visqueen Ultimate Gas Barrier NF-600 is suitable for use in all types of buildings to prevent the ingress of harmful levels of volatile organic compounds (VOCs), methane, carbon dioxide and radon.

The barrier can be positioned above or below reinforced cast in situ concrete floor slabs e.g. ground bearing, suspended or raft, or above precast suspended segmental subfloors, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane. Where protection against VOCs or hydrocarbon contamination is required, the barrier system should be applied with welded joints.

Features and benefits

- Agrement certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type A, Type B and Type C membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 – industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Dual jointing methods - depending upon specification, lap joints can be taped or heat welded



Installation

Visqueen Ultimate Gas Barrier NF-600 should be loose laid on the substrate ensuring that the barrier sheet edges are aligned allowing adequate overlap for jointing between the sheets. The transparent barrier can be laid either side facing upwards, the blue/white barrier must be installed with the blue surface facing upwards or outwards..

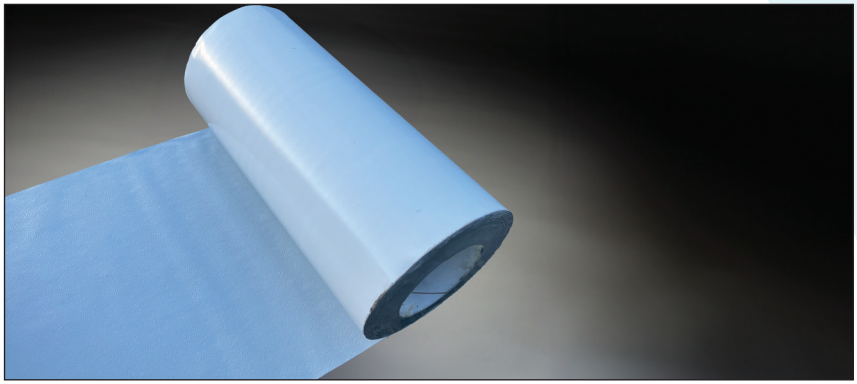
The barrier lap area should be clean and dry at the time of jointing. The barrier has been designed to exhibit superior welding properties using hot wedge and hot air welding, therefore onsite welding of all lap joints is recommended. When hot air hand welding the lap joints, the joint should be overlapped by approximately 100mm and an approximate 35mm weld is normally achieved. During hand welding, the lap joints should be firmly compressed using a hand roller to ensure an adequate bond is achieved.

When taping the lap joints, the joint should be overlapped by approximately 100mm and bonded with VisqueenPro Double Sided Jointing Tape (positioned approximately 25mm from the edge of the sheet) and sealed with Visqueen NF-150 Lap Tape. The lap joints should be firmly compressed using a hand roller during taping to ensure an adequate bond is achieved

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen NF-Detailing Strip, 300mm x 10, 500mm x 10m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units, 110mm, 135mm and 160mm



Installation

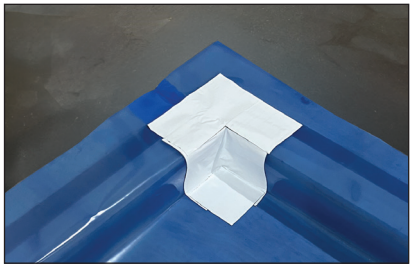
Surfaces must be smooth and free from sharp protrusions, ensure the surface and working area is not water logged and is frost free. When applying to blockwork or brickwork the joints must be flush pointed. Prior to bonding, substrates such as masonry, concrete and steel should be primed using Visqueen HP Tanking Primer and allowed to dry thoroughly. Visqueen HP Tanking Primer must not be used on Insulation or ICF systems.

Visqueen NF-Detailing Strip can be cut with a sharp retractable safety knife. Hand rollers are required during application. Typical hand rollers include 40mm silicone pressure roller and 6mm brass penny pressure roller.

Position and peel back the Visqueen NF-Detailing Strip release film and apply the pressure sensitive, self adhesive face to the prepared substrate. Apply pressure by rollering to ensure a full bond is achieved. All lap joints should be a minimum of 150mm and must be pressed and rolled to ensure damp, gas or waterproofing continuity.

When used for sealing membranes punctures, Visqueen NF-Detailing Strip should be lapped at least 150mm beyond the extents of the puncture.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen HP Tanking Primer, 5L

Product description

Visqueen NF-Detailing Strip is a composite of white polymer film and a cold weather butyl compound protected by a release film. It is available in roll format, 300mm x 10m and 500mm x 10m.

Usage

Visqueen NF-Detailing Strip is used for sealing junctions and complicated detailing in Visqueen gas protection systems, waterproofing systems, and damp proofing systems. It can be used on concrete, blockwork, brickwork, particle boards, steel work, steel stanchions and wooden substrates for both vertical and horizontal application.

Features and benefits

- BDA Agrement Certified detailing material - third party accreditation
- Flexible - can be cut and shaped to various applications
- Multi-use - suitable for complex junctions, stanchions, patchwork and terminations

Product description

Visqueen Gas Barrier is a multi-layer reinforced polyethylene gas 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.

Usage

Visqueen Gas Barrier is suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g. methane, carbon dioxide and radon.

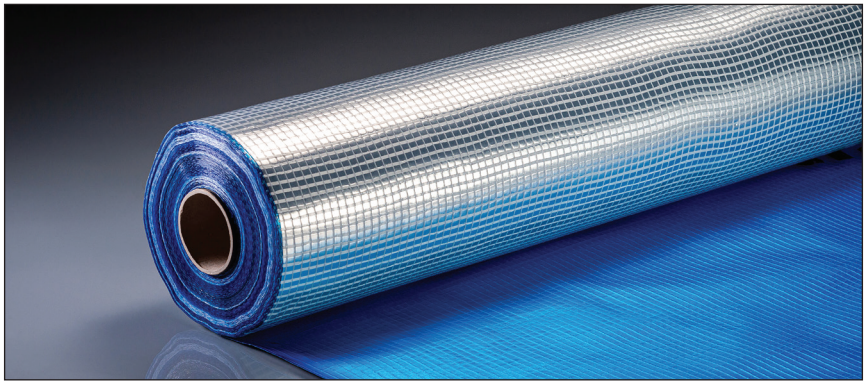
The barrier can be positioned above or below a solid concrete ground floor slab or above a precast suspended segmental ground floor system, e.g. beam and block floor.

The barrier can also be used as a high performance radon membrane and/or damp proof membrane.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- BBA certified - third party accreditation
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded



Installation

Visqueen Gas Barrier should be loose laid on the substrate with the blue side up so as to avoid sunlight glare.

The barrier should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with VisqueenPro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points.

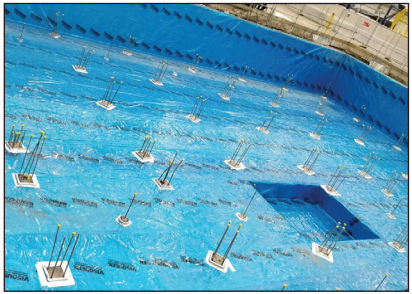
Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners.

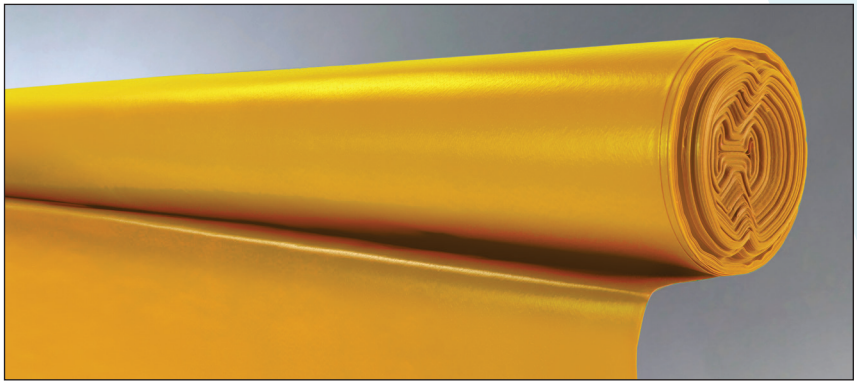
Alternatively VisqueenPro Detailing Strip can be used to seal awkward junctions.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

Visqueen Low Permeability Gas Membrane should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with VisqueenPro Double Sided Jointing Tape and sealed with Visqueen Gas Resistant Foil Lap Tape or Visqueen NF-60 Lap Tape. In demanding site conditions, or where specified, seal lap joints with Visqueen NF-150 Lap Tape. Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points.

Forming an effective barrier to gases may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners.

Alternatively VisqueenPro Detailing Strip can be used to seal awkward junctions.

For full installation instructions, please see product Technical Datasheet



System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen NF-60 Lap Tape, 60mm x 45m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Product description

Visqueen Low Permeability Gas Membrane is a robust co-polymer thermoplastic gas membrane, 0.5mm thick, yellow in colour and supplied 4m x 12.5m in a center folded roll. The membrane is manufactured from virgin polymer.

Usage

Visqueen Low Permeability Gas Membrane is suitable to prevent the ingress of harmful levels of ground gases for housing applications where NHBC are the warranty provider and the site has been classified as Amber 1. In this application, the membrane is used above a precast suspended segmental ground floor system, for example a beam and block floor.

The membrane can also be used as a high performance radon membrane and/or damp proof membrane positioned within the ground floor construction either above or below the structural floor.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- BBA certified - third party accreditation
- Complies with NHBC Amber 1 - suitable for low gas risk NHBC housing sites
- Supplied centre folded - reduces the risk of cracks in screed and limits creases
- Also provides radon and damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded

VISQUEEN LOW PERMEABILITY GAS MEMBRANE

Product description

Visqueen Radon R400 is a 0.4mm thick co-polymer thermoplastic membrane. The product is red in colour and supplied 4m x 20m in a multi-folded roll. The membrane is manufactured from virgin polymer.

Usage

Visqueen Radon R400 is used to prevent the ingress of radon in both basic and full radon protection areas. The membrane can be positioned within the ground floor construction either above or below the structural floor.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- BBA certified - third party accreditation
- 0.4mm (1600 gauge) thick - complies with BBA regulations for radon protection membranes in line with BS8485:2015+A1:2019
- Conforms to BR 211:2023 - industry guidance for radon protection
- Also provides damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded



Installation

Visqueen Radon R400 should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. Joints should be overlapped by at least 150mm, bonded with VisqueenPro Double Sided Tape and sealed with either VisqueenPro Single Sided Tape or Visqueen Gas Resistant Foil Lap Tape.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes.

Forming an effective barrier to radon may give rise to complex three-dimensional detailing where, it is recommended Visqueen Preformed Units are used e.g. corners.

When reinforced concrete is to be laid over the membrane the wire reinforcements and spacers must be prevented from puncturing the membrane.

Alternatively VisqueenPro Detailing Strip can be used to seal awkward junctions.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen Gas Resistant Foil Lap Tape, 75mm x 50m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

Visqueen Liquid Gas Membrane can be applied directly from the tin using a roller or brush, or transferred to a more appropriate container and applied by roller. Do not pour directly onto the surface.

When used as a priming solution for bonding Visqueen self adhesive membranes to ICF, apply one coat at a coverage rate of 0.25 litre/m^2 and allow to dry.

For gas proofing applications apply three coats at a coverage rate of minimum 0.8 litre/m^2/coat. Allow each coat to dry and cure thoroughly before applying the next. Total coverage for this application is minimum 2.4 litre/m^2.

For full installation instructions, please see product Technical Datasheet



System components

- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Product description

Visqueen Liquid Gas Membrane is a blue-grey, single component liquid damp proof, gas proof and waterproof membrane. It is supplied in 12.5L plastic pails.

Usage

Visqueen Liquid Gas Membrane is suitable for damp proofing, gas proofing and waterproofing a variety of substrates including concrete, masonry and metal, above and below ground level including retaining walls, cast concrete, precast concrete and steelwork. The product is ideal for complex detailing and difficult to reach areas.

The liquid is suitable for use on insulated concrete formwork (ICF) as a priming solution to provide the optimum surface prior to the application of Visqueen Self Adhesive Membrane, Visqueen Gas Resistant Self Adhesive Membrane or VisqueenPro Detailing Strip.

The product is not designed as a decorative coating.

Features and benefits

- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Conforms to the specification requirements of BR 211:2023 - provides radon protection
- Fully bonded system - self terminating at the perimeter of the installation
- Seamless application - no lap joints
- Suitable for damp surfaces or green concrete - assists build sequencing

Product description

Visqueen Ultimate Geoseal is a 1mm thick, robust pre-applied waterproofing barrier. It is coloured grey on the upper surface and black on the reverse.

The grey surface is textured to aid adhesion to cast concrete.

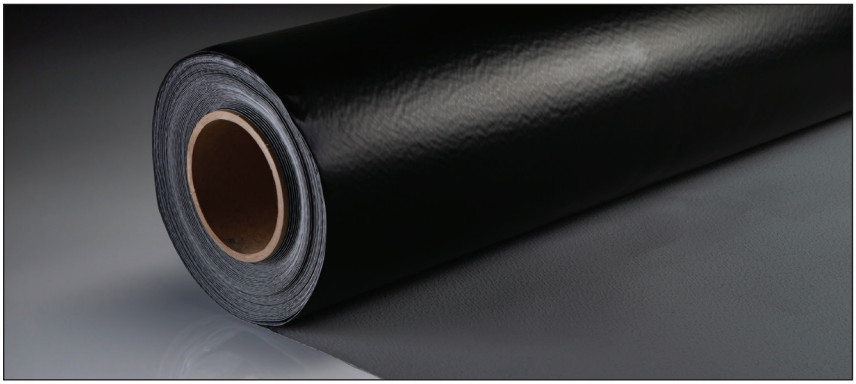
The barrier is supplied in single wound rolls (not folded), 2.44m x 20.5m.

Usage

Visqueen Ultimate GeoSeal is a pre-applied fully bonded Type A Barrier Membrane (Tanking Membrane) for use with below ground reinforced concrete structures e.g. basements, retaining walls, lift pits and car parks. The barrier also prevents the ingress of harmful levels of volatile organic compounds (VOCs) and hazardous ground gases.

Features and benefits

- Agrément certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type B and Type C membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- High resistance to impact compared to standard Visqueen DPMs - greatly reduces risk of barrier becoming damaged during the build process
- Also provides radon and damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded



Installation

Visqueen Ultimate GeoSeal should be loose laid on horizontal substrates and pre-applied to vertical substrate with the grey textured side facing towards the wet cast concrete so that a key to the concrete can be achieved.

The barrier has been designed to exhibit superior welding properties using hot wedge, hot air or extrusion welding, therefore onsite welding of all lap joints is recommended for all applications, and should be employed when hydrostatic water pressure or hydrocarbon/VOC contamination is present.

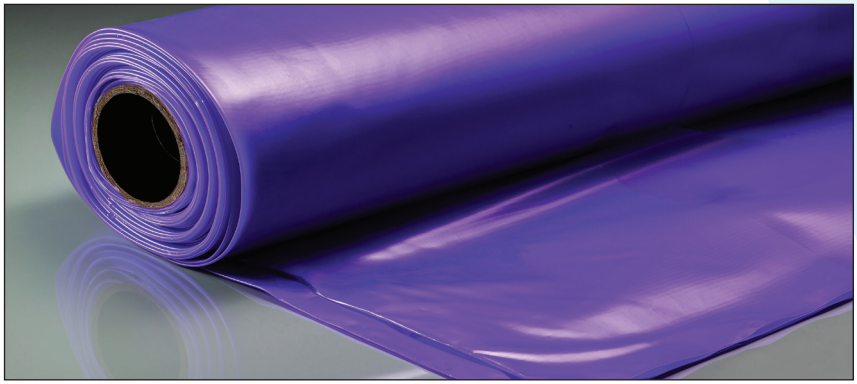
Alternatively, when the barrier is used for damp proofing, ground gas protection and sites where hydrostatic water pressure or hydrocarbon/VOC contamination is of low risk, lap joints can be bonded with Visqueen 100mm Double Sided Butyl Tape and sealed with Visqueen NF-150 Lap Tape.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape 100mm x 15m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Retaining Discs, 50mm long x 35mm head diameter x 500 per box
- Visqueen Ultimate Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





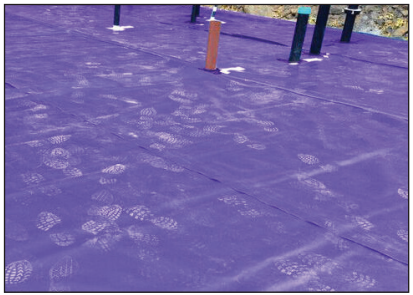
Installation

Visqueen Ultimate RadonBlok 400 should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen RadonBlok Double Sided Tape and sealed with VisqueenPro Single Sided Tape.

Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen RadonBlok Double Sided Tape and sealed with VisqueenPro Single Sided Tape. The upstand should be secured with the supplied jubilee clip.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen RadonBlok Double Sided Tape, 30mm x 30m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen Preformed Units /Top Hat Units
- Visqueen Radon Sump

Product description

Visqueen Ultimate RadonBlok 400 is a flexible 0.4mm thick high performance co-polymer thermoplastic membrane. The product is purple in colour and supplied 4m x 25m in centre fold format. Other sizes and formats are available on request including single wound i.e. no folds.

The membrane is manufactured from virgin polymer.

Usage

Visqueen Ultimate RadonBlok 400 is used to prevent the ingress of radon in both basic and full radon protection areas. The membrane can be positioned within the ground floor construction either above or below the structural floor.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- Agrément certified - third party accreditation
- Conforms to BR 211:2023 - industry guidance for radon protection
- Also provides damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded

Product description

Visqueen Ultimate RadonBlok 600 is a flexible 0.6mm thick high performance co-polymer thermoplastic membrane. The product is purple in colour and supplied 2m x 25m in a single wound roll (not folded).

The membrane is manufactured from virgin polymer.

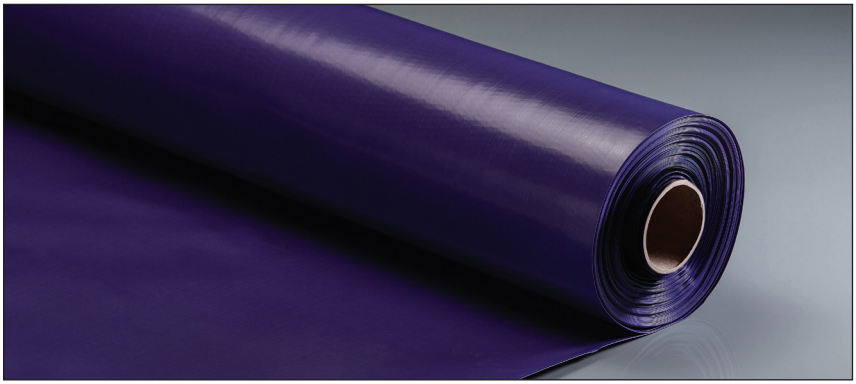
Usage

Visqueen Ultimate RadonBlok 600 is used to prevent the ingress of radon in both basic and full radon protection areas. The membrane can be positioned within the ground floor construction either above or below the structural floor.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- Agrément certified - third party accreditation
- Conforms to BR 211:2023 - industry guidance for radon protection
- Also provides damp proof membrane protection
- Dual jointing methods - lap joints can be taped or heat welded



Installation

Visqueen Ultimate RadonBlok 400 should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with Visqueen RadonBlok Double Sided Tape and sealed with VisqueenPro Single Sided Tape.

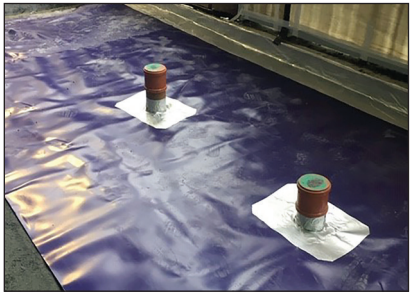
Alternatively lap joints can be heat welded to achieve an effective seal. Welded lap joints can be less than 150mm provided the joint integrity is not compromised.

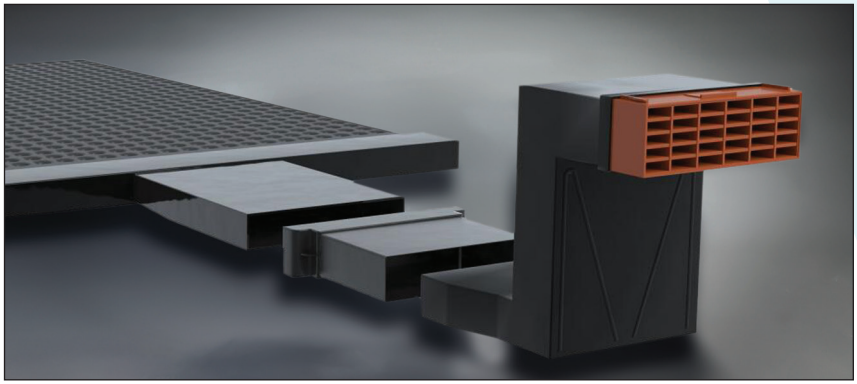
Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using Visqueen RadonBlok Double Sided Tape and sealed with VisqueenPro Single Sided Tape. The upstand should be secured with the supplied jubilee clip.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen RadonBlok Double Sided Tape, 30mm x 30m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen Radon Sump





Installation

Visqueen Adjustable Z Vents and Airbricks should be installed during the normal course of bricklaying. A Visqueen Zedex CPT High Performance DPC cavity tray should be fitted above the vent.

Vents and airbricks should be fitted in at least two opposing walls to create a through flow of air. The vents and airbricks should be placed at centers as stipulated in BS 8485:2015 + A1:2019 and within 450mm of each end of the wall. Bricklaying should then be completed as normal although care should be taken to keep the air flow passage clear from mortar droppings.

Where the vents require extending, Visqueen Extension Sleeves should be used.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Venting Pipework and Connectors

Product description

Visqueen Adjustable Z Vents and Airbricks.
Visqueen Airbricks are manufactured from UV stabilized polypropylene and are available in Terracotta and Black. The airbrick replaces an external masonry brick. It incorporates a front mounted louvered grill to permit airflow while blocking out wind driven rain and prohibiting large insects from gaining access.

Visqueen Adjustable Z Vents are manufactured from black polypropylene and are designed to provide a clear airflow passage to the underfloor void.

Usage

Visqueen Adjustable Z Vent and Airbrick system is used within external masonry cavity wall constructions to provide a clear airflow passage to the void beneath precast suspended segmental ground floors e.g. beam and block. The system is used to achieve a passive subfloor ventilation system in accordance with BS 8485:2015 + A1:2019, effectively diluting any hazardous ground gases accumulating in the underfloor void.

Features and benefits

- Functional solution for exhausting ground gases from underfloor voids

VISQUEEN ADJUSTABLE Z VENT AND AIRBRICK

Product description

Visqueen Gas Vent Bollard is a 110mm diameter stainless steel vent bollard with a total height of 1400mm of which between 800mm - 900mm is positioned above external ground level.

Each vent bollard provides a free air flow capacity of 25000mm^2.

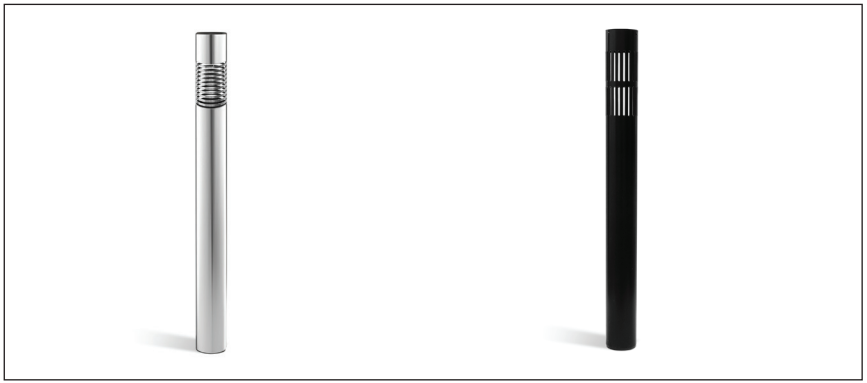
Usage

When installed as part of a Visqueen gas venting system, Visqueen Gas Vent Bollard will safely disperse harmful ground gases to atmosphere and, due to its design, reduces the risk of rainwater entering the void.

The vent bollard is typically used in applications where the gas dispersal system cannot be taken out through a perimeter masonry wall e.g. curtain walling and glazing systems. The vent bollard can be positioned close to the building perimeter wall or within the building landscaping e.g. adjacent to pathways

Features and benefits

- Used for all ground gas venting applications including volatile organic compounds (VOCs)
- Aesthetic finish - rust proof
- High free air flow capacity - reduces number of units required
- Slotted venting design - eliminates need for a sub-base soakaway



Installation

Ensure all below ground Visqueen Gas Vent Pipe push-fit pipework joints are secure and the sub-base is well compacted before positioning the Visqueen Gas Vent Bollard.

Connect the vent bollard to the vent pipe so that between 800mm and 900mm is visible above external ground level. Drill holes in the vent pipe corresponding to the pre-drilled holes in the lower portion of the vent bollard. Insert securing bar.

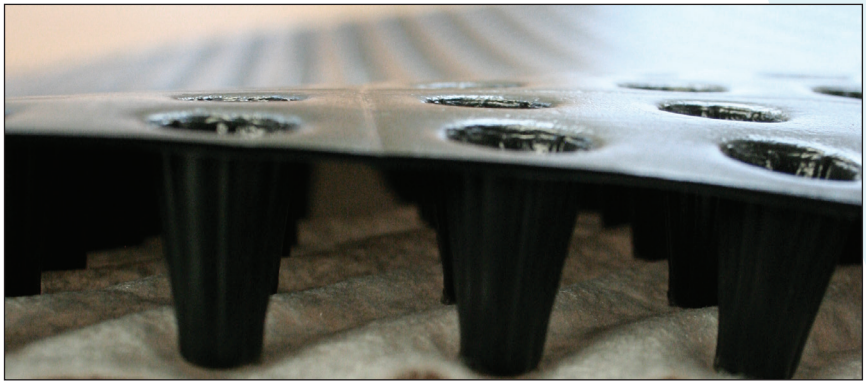
Ensure the vent bollard is vertical. Below ground level form a minimum 150mm concrete (strength class C25/30 to BS EN 206:2013 + A2:2021) surround to the vent bollard. Remove any concrete spill before it sets and clean off residue with soapy water.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Venting Pipework and Connectors





Installation

Unroll Visqueen Gas Vent Mat in position. Turn over so that the geotextile filter membrane layer faces downwards i.e. towards the substrate.

When laid in a blanket format, all joints should be butted with the overlap strip of geotextile filter membrane extending beneath the adjacent vent mat.

When laid in strip format, end laps should be butted with the overlap strip of geotextile filter membrane, when present, extending beneath the adjacent vent mat.

Where necessary the vent mat can be cut around columns, pipes and other such penetrations.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Venting Pipework and Connectors
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Product description

Visqueen Gas Vent Mat is a geocomposite void former comprising a cuspated high density polyethylene (HDPE) core bonded to a nonwoven polypropylene geotextile filter membrane. Visqueen Gas Vent Mat is 25mm thick and supplied in rolls 900mm x 50m

Usage

Visqueen Gas Vent Mat is designed to create a 25mm deep void beneath reinforced concrete ground floor slabs. Hazardous ground gases or volatile organic compounds (VOCs) are collected within the void and dispersed to atmosphere via a designed arrangement of Visqueen connectors and venting components, collectively managing and effectively diluting the collected gases.

Where high gas concentrations have been recorded the vent mat can be laid in a blanket format with the individual mats being butted together. Where the gas concentrations are low or where pressure relief is required the vent mat can be laid in a strip format with the mat being laid at predetermined spacings.

Features and benefits

- Large format rolls - rapid installation
- Less contaminated soil to be removed compared to pipe and gravel systems
- System achieves between 0.5 and 1.5 points in accordance with BS8485:2015 + A1:2019
- Range of system components - provides various methods of exhausting gases to atmosphere

Product description

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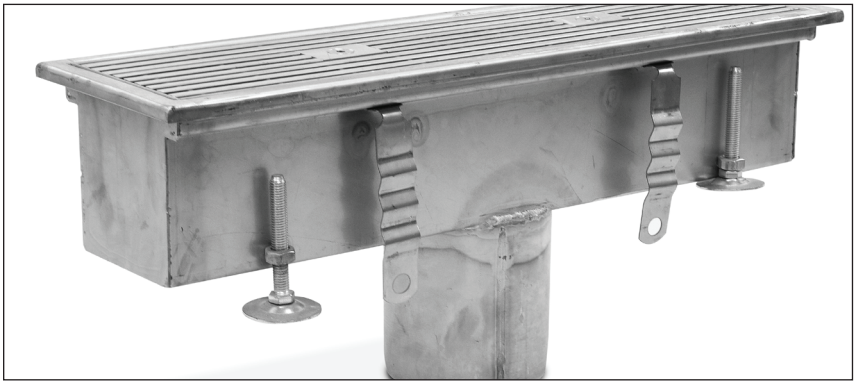
Usage

Visqueen Gas Vent Mat is designed to create a 25mm deep void beneath reinforced concrete ground floor slabs. Hazardous ground gases or volatile organic compounds (VOCs) are collected within the void and dispersed to atmosphere via a designed arrangement of Visqueen connectors and venting components, collectively managing and effectively diluting the collected gases.

Where high gas concentrations have been recorded the vent mat can be laid in a blanket format with the individual mats being butted together. Where the gas concentrations are low or where pressure relief is required the vent mat can be laid in a strip format with the mat being laid at predetermined spacings.

Features and benefits

- Large format rolls - rapid installation
- Less contaminated soil to be removed compared to pipe and gravel systems
- System achieves between 0.5 and 1.5 points in accordance with BS8485:2015 + A1:2019
- Range of system components - provides various methods of exhausting gases to atmosphere



Installation

Unroll Visqueen Gas Vent Mat in position. Turn over so that the geotextile filter membrane layer faces downwards i.e. towards the substrate.

When laid in a blanket format, all joints should be butted with the overlap strip of geotextile filter membrane extending beneath the adjacent vent mat.

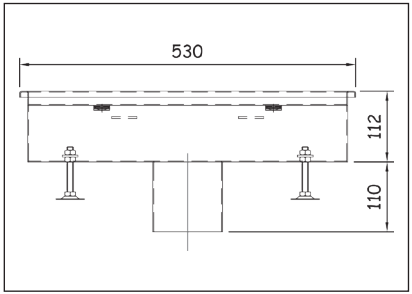
When laid in strip format, end laps should be butted with the overlap strip of geotextile filter membrane, when present, extending beneath the adjacent vent mat.

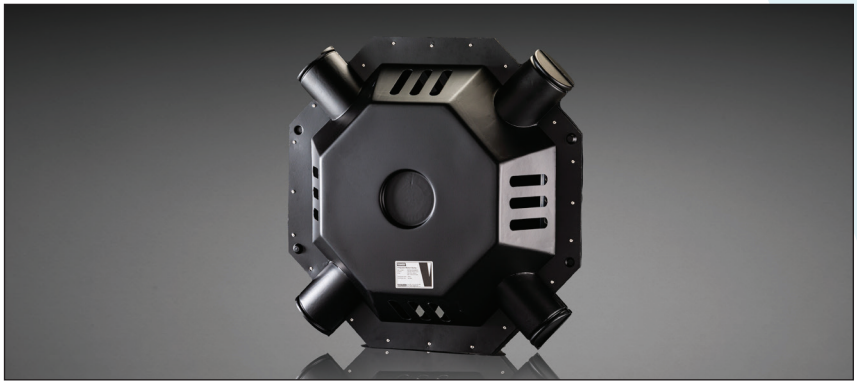
Where necessary the vent mat can be cut around columns, pipes and other such penetrations.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Venting Pipework and Connectors
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





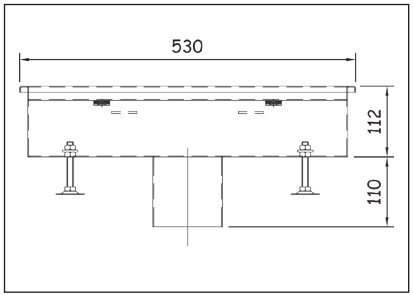
Installation

Remove the end of one of the four outlet ports on the Visqueen Radon Sump by cutting along the groove at the perimeter of the port with a fine toothed saw.

Position the sump in the base of the excavated pit and ensure it is level. Connect a 110mm diameter plastic pipe to the prepared outlet port of the sump. Extend the pipe horizontally so that it passes through the external wall. Ensure that all joints and couplings are airtight.

Backfill using a clean permeable material without excessive fines. Terminate the pipework just above ground level and approximately 100mm from the external face of the external wall. Cap off the pipe with an access plug. The pipe will then be ready to extend and vent if and when necessary. Provide an identification plate on the wall to indicate the presence of the Radon Pipe. Do not connect the Visqueen Radon Sump to any part of the drainage system.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Venting Pipework and Connectors

Product description

Visqueen Radon Sump is a pre-fabricated sump unit manufactured from moulded black ABS plastic. The unit has four equidistant perimeter outlet ports, along with a central outlet port for vertical pipework installation.

The sump unit dimensions are 700mm x 700mm x 250mm high.

Usage

Visqueen Radon Sump is required when full radon protection has been identified. The sump can be used in solid ground floor concrete slab applications and ventilated sub floor void applications.

Depending on the permeability of the soil type, the sump can draw the harmful radon gas from a radius distance of approximately 7m i.e. providing protection to an area of approximately 150m^2.

In solid ground floor concrete slab applications, the sump should be positioned directly beneath the Visqueen radon membrane.

Features and benefits

- Provides sub-floor depressurisation when full radon protection is required
- Lightweight - easy to handle
- Multiple outlet ports

Product description

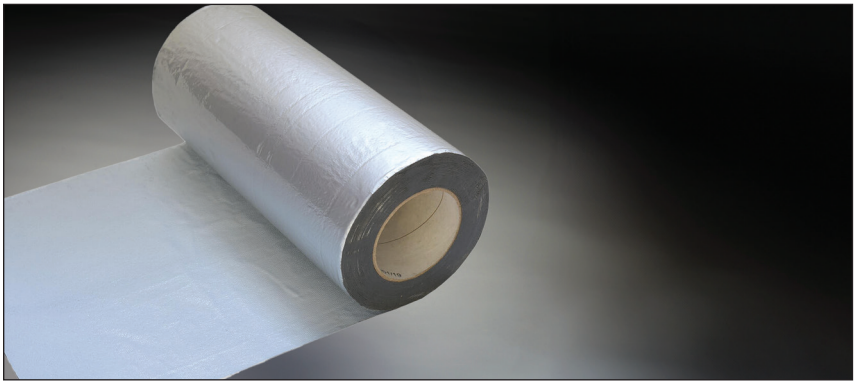
VisqueenPro Detailing Strip is a composite of PET/aluminium and a high performance cold weather butyl compound. It is available in roll format, 300mm x 10m and 500mm x 10m.

Usage

VisqueenPro Detailing Strip is used for sealing junctions and complicated detailing in Visqueen gas protection systems, waterproofing systems, and damp proofing systems. It can be used on concrete, blockwork, brickwork, particle boards, steel work, steel stanchions and wooden substrates for both vertical and horizontal application.

Features and benefits

- Flexible - can be cut and shaped to various applications
- Multi-use - suitable for complex junctions, stanchions, patchwork and terminations
- Gas resistant aluminium core



Installation

Surfaces must be smooth and free from sharp protrusions, ensure the surface and working area is not water logged and is frost free.

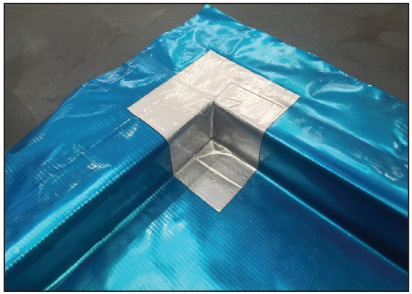
When applying to blockwork or brickwork the joints must be flush pointed. Prior to bonding, substrates such as masonry, concrete and steel should be primed using Visqueen HP Tanking Primer and allowed to dry thoroughly. Visqueen HP Tanking Primer must not be used on Insulation or ICF systems.

Position and peel back the VisqueenPro Detailing Strip release film and apply the pressure sensitive, self adhesive face to the prepared substrate. Apply pressure by rollering to ensure a full bond is achieved. All lap joints should be a minimum of 150mm and must be pressed and rolled to ensure damp, gas or waterproofing continuity. When used for sealing membranes punctures, VisqueenPro Detailing Strip should be lapped at least 150mm beyond the extents of the puncture.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen HP Tanking Primer, 5L



Notes

Structural Waterproofing



Structural Waterproofing Cavity Drain System

Product description

Visqueen CM20 Membrane is a 1mm thick high density polyethylene (HDPE) profiled sheet with approximate 20mm high studs . The membrane is supplied in large formats roll of 2m x 20m.

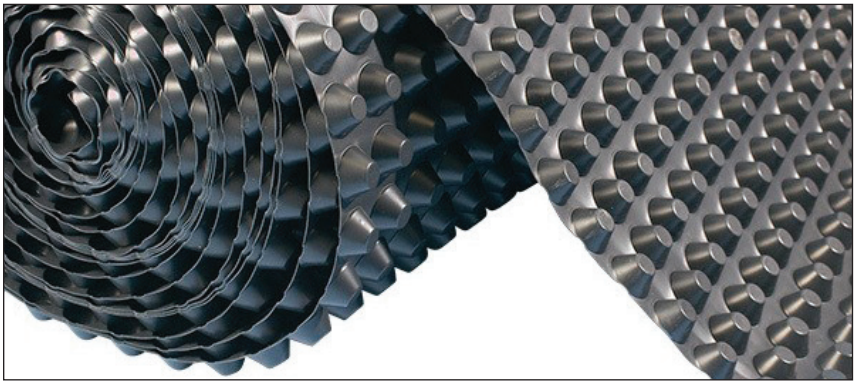
Usage

Type C waterproofing is defined in BS 8102:2022 as 'drained protection'. This is achieved by the incorporation of a drained cavity within the sub structure. The walls and floor must provide enough primary resistance to water ingress to ensure the cavity only accepts a controlled amount of water or dampness. Water is collected in the cavity, between the external wall/floor and an internal lining (cavity drain membrane), and diverted to a suitable drainage point.

The membrane can be used as an internally applied horizontal or vertical membrane as part of a Visqueen Cavity Drain System. The system is typically used for internally tanking basements, sub structures and retaining walls within new, existing and retrofit build projects.

Features and benefits

- Suitable for use as part of a Type C waterproofing protection system in accordance with BS 8102:2022
- Compliant with the requirements of NHBC Chapter 5.4 as a method of waterproofing protection
- Suitable for heritage buildings and conservation projects - causes little or no damage to the existing structure
- 1mm HDPE membrane - acts as a radon barrier
- Suitable for new and retrofit substructure walls, floors, vaults and tunnels



Installation

Begin at one side of the room and unroll the Visqueen CM20 Membrane against the wall membrane with the studs facing down onto the floor and cut the membrane to the desired length or width of the floor. Repeat until the lengths/widths required to cover the floor area have been cut allowing for a three stud membrane overlap.

The individual sheets of membrane that have now been cut, are joined together with Visqueen CM Butyl Rope. The sealing rope is positioned between the three stud formations along the edge of the membrane to be overlapped. Remove the release paper.

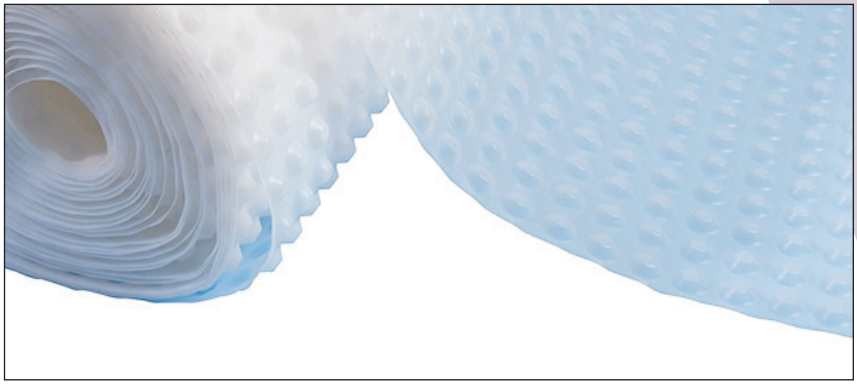
Lift the next sheet of membrane over the three interlocking studs and press the overlapping membrane down onto the sealing rope.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Cavity Membrane System Components





Installation

Position the Visqueen CM8 Membrane on the wall and drill a 10 mm diameter hole through the centre of the stud into the wall. Take care when drilling holes to avoid excessive masonry dust from falling into the cavity. Place the Visqueen CM Brick Plug with seal washer into the hole and drive the fixing home with a wooden or rubber mallet. The seal must be compressed to function as a barrier against water ingress, and this should be visually checked as each plug is fixed. Spacings between these fixings will depend on the method of dry lining to be applied. When using preservative-treated timber battens the fixings should be kept to a maximum of 400 mm centres vertically and 600 mm horizontally. Proprietary metal fast track systems and independent frame systems will require fewer fixings, but sufficient number should be used to ensure that the membrane is reasonably tight to the wall, especially at corners.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Cavity Membrane System Components

Product description

Visqueen CM8 Membrane is a 8mm studded cavity membrane formed from 0.45mm thick high density polyethylene (HDPE). The cavity membrane is translucent off-white in colour and supplied in rolls, 2m x 20m which includes an 85mm stud free overlap flange along the length of the roll.

Visqueen CM8HD Membrane is an 8mm studded high density variant that can be used as part of a radon protection system. The membrane is 2m x 20m.

Usage

Visqueen CM8 Membrane is used as an internally applied vertical membrane as part of a Visqueen cavity drainage system. However in areas where the design permits, the membrane is suitable for use for both horizontal and vertical substrates. The membrane system is used for damp proofing and internally waterproofing new or retrofit substructure build projects such as the walls (and floors where the design permits) of basements, vaulted ceilings, retaining walls, and tunnels.

The membrane system causes little or no damage to the existing structure making it suitable for heritage buildings and conservation projects.

Features and benefits

- Suitable for use as part of a Type C waterproofing protection system in accordance with BS 8102:2022
- Compliant with the requirements of NHBC Chapter 5.4 as a method of waterproofing protection
- Suitable for heritage buildings and conservation projects - causes little or no damage to the existing structure
- Suitable for new and retrofit substructure walls, floors, vaults and tunnels

Product description

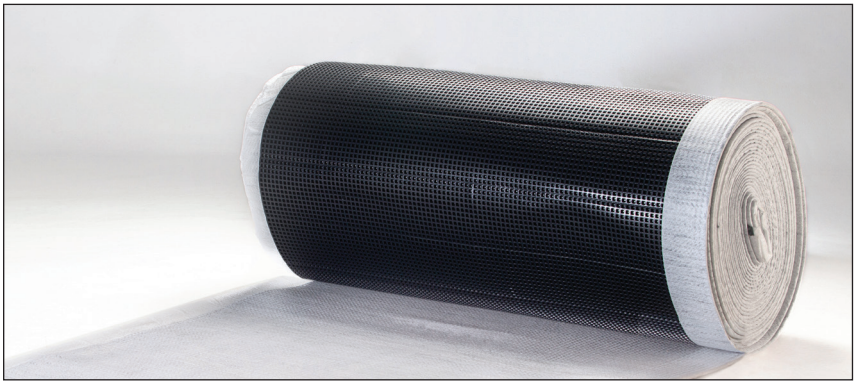
Visqueen Protect&Drain is a geocomposite void former comprising a cuspated high density polyethylene (HDPE) core, bonded to a nonwoven polypropylene geotextile filter membrane.
The product is supplied in rolls and available in the following three thicknesses; 6mm (970mm x 25m), 12mm (1m x 25m) and 25mm (900mm x 25m).

Usage

Visqueen Protect&Drain is used for below ground waterproofng applications where an externally applied Type A barrier membrane (tanking membrane) protection layer is required combined with an integral sub-surface drainage layer. The product forms a void to collect and transmit water into adjacent sub-surface drainage outlets or collector pipes and so reduce the risk of a head of water (hydrostatic pressure) forming against the structure.
Typical applications include use as part of a groundwater management system for slab edges, retaining walls, basement walls and lift pit walls. Product selection should be based on the groundwater risks highlighted in the site ground investigation report.

Features and benefits

- Provides a combined protection layer and drainage layer
- Range of thicknesses available - provides options for water flow capacity
- Large format rolls - rapid installation



Installation

Visqueen Protect&Drain is designed to be installed with the geotextile filter membrane facing the direction of the water flow i.e facing towards the backfill.
Unroll into position. The product can be installed as a series of abutting strips running across the face of the vertical substrate e.g. starting at the bottom and running left to right, or installed vertically on the substrate e.g. top to bottom.

The strips can be temporarily held in position using VisqueenPro Double Sided Jointing Tape.

The geotextile filter membrane extends beyond the width of the dimpled HDPE core at one side; this creates an overlap flap which should be secured to the adjacent strip with VisqueenPro Detailing Strip. Seal perimeter edges of installation with VisqueenPro Detailing Strip to prevent ingress of fines/soil.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

Visqueen Axiom Guard can be applied directly from the tin using a brush, or transferred to another suitable container and then applied by roller.

For concrete, brickwork, blockwork, timber and metal substrates apply 2 coats. Apply the first coat at a coverage rate of 0.75kg/m^2, and the second coat at 0.75kg/m^2. When used as a 2 coat system, a 20kg tin will cover approximately 13.3m^2. Allow a minimum of 6 hours between application of coats.

Good ventilation is required to ensure adequate curing of the coating.

Long periods of exposure to ultraviolet light will reduce the effectiveness of the membrane. The membrane should be covered by a protective layer immediately after installation to prevent damage from following trades, ultraviolet light, etc.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Axiom Primer, 4kg
- Visqueen IGW5 and IGW10 Waterstops

Product description

Visqueen Axiom Guard is a grey, single component liquid damp proof and waterproof membrane. It is supplied in 20kg tins.

Usage

Visqueen Axiom Guard is suitable for damp proofing applications including concrete floors and masonry wall constructions. The product is also suitable for waterproofing below ground concrete substructures including retaining walls, cast concrete, precast concrete and steelwork. The product is ideal for complex detailing and difficult to reach areas.

The product is not designed as a decorative coating.

The product can be used to achieve one form of waterproof for Grades 1, 2 and 3 as defined in BS 8102:2022.

Features and benefits

- Agrément certifed - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- No mixing required - use straight from the tin
- Cures to form a flexible elastic coating
- Fully bonded system - self terminating at the perimeter of the installation
- Radon resistant - third party testing

Structural Waterproofing Liquids

Product description

Visqueen Axiom UniSeal is a two component system both supplied in the same tin with an overall product weight of 15.6kg. The first component (Part A) is a bitumen-extended polyurethane fluid (15kg).
The second component (Part B) is an accelerator hardener (0.6kg).

Usage

Visqueen Axiom UniSeal is specially formulated for waterproofing below ground structures. It is suitable for complex shapes, irregular profiles and angle fillets. It can be used to seal pipe penetrations and steel stanchions and around steel reinforcement.
It can also be used on various surfaces including steel, timber, plywood, bitumen membranes, concrete and masonry.

Visqueen Axiom UniSeal is a liquid waterproofing membrane which meets the requirements of BS8102:2022 for Grades 1, 2 and 3, and is classified as a fully bonded Type A membrane.

The product is not designed for use as a decorative finish and is not suitable for long periods of exposure to sunlight.

Features and benefits

- Agrément certifed - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Fully bonded system - self terminating at the perimeter of the installation
- Radon resistant - third party testing



Installation

The following tools are suitable for installation; scraper, gauging trowel, steel plasterers trowel and plasterers hawk. Tools can only be cleaned by scraping off the excess material. Using the appropriate tools, apply onto the substrate using the same principle as plastering. Areas that require fillets or complex detailing should be completed using an appropriate width scraper or gauging trowel.

Angle fillet coverage - in fillet applications the material should be at least 20mm thickness in the horizontal and vertical surfaces. Coverage is approximately 78 liner metres per 15.6kg tin.

Render coat coverage - when used as a 2.5mm thick render coat (minimum thickness), coverage is approximately 6.24m^2.

Once mixed, the product must be applied within one hour. The product cannot be resealed for later use.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Protect&Drain
- Visqueen TreadGUARD 1500, 1m x 2m





Installation

Open the Visqueen Axiom Guard PRO drum and mechanically stir the contents at a slow speed for two minutes to ensure that all components are fully mixed.

Visqueen Axiom Guard PRO can be used straight from the drum. Apply a generous coat (approx. 80% of overall coverage) of Visqueen Axiom Guard PRO onto the substrate. Without delay, embed and dry roller the Visqueen Axiom Guard PRO Matting into the liquid product until the liquid is drawn through, then immediately apply a further coat of liquid product (approx. 20% of overall coverage) ensuring the matting is fully embedded and coated. Avoid any pinholes in the coating or ruckles in the matting. Matting overlaps to be minimum 50mm.

The whole area to be waterproofed must be coated as above to form a continuous seamless membrane.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Axiom Guard PRO Matting
- Visqueen Axiom Guard PRO Topcoat

Product description

Visqueen Axiom Guard PRO is a polyurethane liquid-applied membrane.

The product is dark grey in colour and supplied in 15kg drums.

Usage

Visqueen Axiom Guard PRO is suitable for waterproofing below ground substructures including podium decks, retaining walls and lift pit walls. The product can be applied to a variety of substrates including cast concrete, precast concrete, flush pointed blockwork, flush pointed brickwork, and steelwork. It can be applied in both vertical and horizontal applications. The membrane can be used to achieve one form of waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

The product is also suitable for damp proofing applications including concrete floors, flush pointed masonry walls and wet rooms. The product can be applied to a variety of substrates including those listed above, and wet room tile backing boards.

When used in conjunction with Visqueen Axiom Guard PRO Topcoat, Visqueen Axiom Guard PRO is suitable for waterproofing balconies, terraces, walkways, bund walls, surfaces that are subject to total permanent immersion in water, and some flat roofing applications.

Features and benefits

- Agrement certified - third party accreditation
- Type A Barrier Membrane - resistant to ground water in accordance with BS 8102:2022
- UV resistant when used with Axiom Guard PRO Topcoat - suitable for exposed applications
- Moisture curing - can be applied to damp substrates and resistant to rain once applied
- Versatile - ideal for large areas and complex detailing

Structural Waterproofing Tanking Membranes

Product description

Visqueen Gas Resistant Self Adhesive Membrane is a foil lined modified bitumen rubber membrane with a self adhesive coating protected by a removable polyethylene release film. The product is silver on the upper surface and supplied in rolls 1m x 20m.

Usage

Visqueen Gas Resistant Self Adhesive Membrane is a cold applied product, suitable for use as a Type A Barrier Membrane (Tanking Membrane) for above and below ground applications e.g. basements, retaining walls and lift pits.
It is also suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g. methane, carbon dioxide and radon.

The membrane can be applied to a variety of substrates including concrete, blockwork, brickwork, particle boards and steelwork, in both vertical and horizontal applications.

The membrane can be used to achieve waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

Features and benefits

- BBA certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Self adhesive application - no jointing tapes required



Installation

Visqueen Gas Resistant Self Adhesive Membrane lap joints should be a minimum of 150mm and should be pressed and rollered to form a continuous bond and to ensure watertightness.

At 90 degree changes of direction a Visqueen Axiom UniSeal fillet should be formed prior to membrane installation. Substrates must be primed with Visqueen HP Tanking Primer.

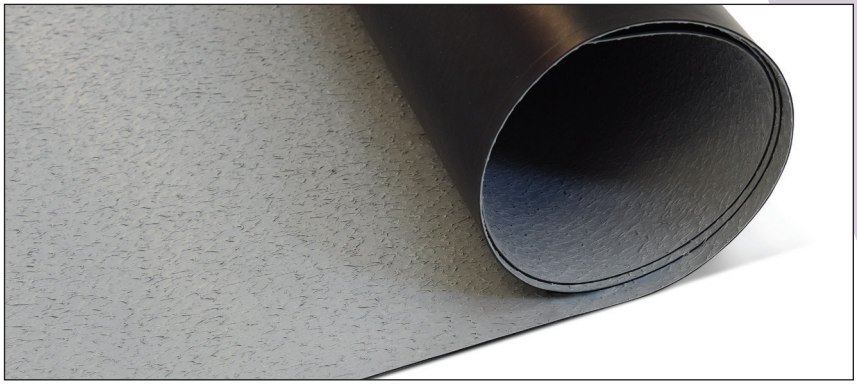
For vertical applications cut the membrane to a suitable length allowing an additional 150mm for laps. Position and peel back release film and apply the self adhesive face to the substrate. Apply pressure to ensure a full bond is achieved. Commence at the top of the wall and work downwards, progressively removing the release film.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen HP Tanking Primer, 5L
- Visqueen Ultimate Top Hat Units
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen Protect&Drain
- Visqueen Pile Cap Sealer, 25kg
- Visqueen IGW5 and IGW10 Waterstops





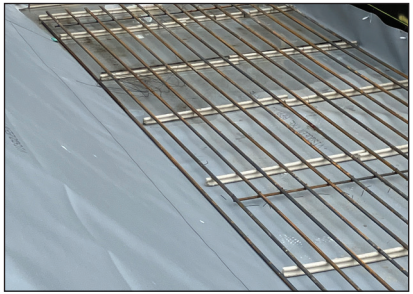
Installation

Visqueen Pre Applied Membrane should be loose laid on horizontal substrates and pre-applied to vertical substrate with the grey textured side facing towards the wet cast concrete so that a key to the concrete can be achieved.

The membrane has been designed to exhibit superior welding properties using hot wedge, hot air or extrusion welding, therefore onsite welding of all lap joints is recommended for all applications, and should be employed when hydrostatic water pressure is present.

Alternatively, when the membrane is used for damp proofing, radon protection and sites where hydrostatic water pressure is of low risk, lap joints can be bonded with Visqueen 100mm Double Sided Butyl Tape and then sealed with Visqueen NF-150 Lap Tape. When using tapes to secure laps, the overlap should be minimum 150mm and the membrane surfaces to be jointed should be dry and free from contamination such as dust or sand. Once the tapes are applied, the lap should be well rolled with a seam roller to ensure full adhesion and continuity.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen 100mm Double Sided Butyl Tape
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Retaining Discs, 50mm long x 35mm head diameter x 500 per box
- Visqueen Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen IGW5 and IGW10 Waterstops

Product description

Visqueen Pre Applied Membrane is a 1mm thick, robust co-extruded waterproofing membrane. It is coloured grey on the upper surface and black on the reverse. The grey surface is textured to aid adhesion to cast concrete.

The membrane is supplied in single wound rolls (not folded), 2.44m x 20.5m.

Usage

Visqueen Pre Applied Membrane is a pre-applied fully bonded Type A Barrier Membrane (Tanking Membrane) for use with below ground reinforced concrete structures e.g. basements, retaining walls, lift pits and car parks.

The pre-applied membrane can be used to achieve waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

Features and benefits

- Agrément certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- High resistance to impact compared to standard Visqueen DPMs - greatly reduces risk of barrier becoming damaged during the build process
- Also provides radon and damp proof membrane protection
- Dual jointing methods - depending on specification, lap joints can be taped or heat welded

VISQUEEN PRE APPLIED MEMBRANE

Product description

Visqueen TorchOn Tanking Membrane is a modified bitumen rubber tanking membrane. It has a sanded finish to the top surface and a heat dispersible film on the underside. The roll is supplied 1m x 8m.

Usage

Visqueen TorchOn Tanking Membrane is a heat bonded product, suitable for use as a Type A Barrier Membrane (Tanking Membrane) for above and below ground applications e.g. basements, retaining walls and lift pits.

When applied as a two layer system the product is suitable for waterproofing podium decks.

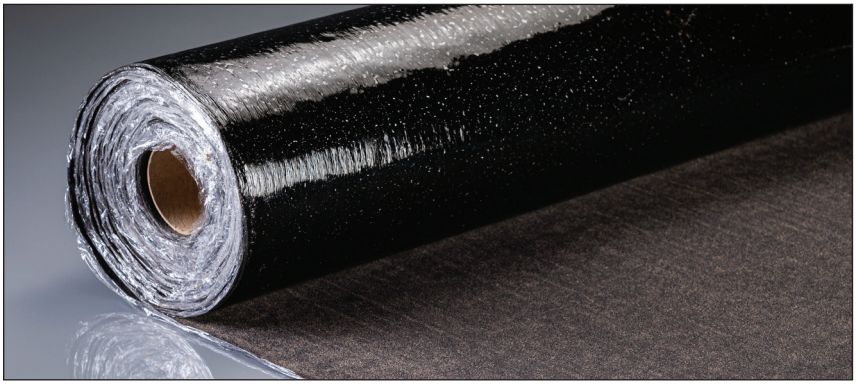
It is also suitable for use in all types of buildings to prevent the ingress of harmful levels of ground gases e.g. methane, carbon dioxide and radon.

The membrane can be applied to a variety of substrates including concrete, blockwork, brickwork and steelwork, in both vertical and horizontal applications.

The membrane can be used to achieve waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

Features and benefits

- BBA certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Also provides radon and damp proof membrane protection
- Heat bonded application - no jointing tapes required
- Heat bonded application - ideal for cold and damp conditions



Installation

Visqueen TorchOn Tanking Membrane side and end laps to be minimum 150mm. All lap joints should be fully bonded; a bead of bitumen should extrude from the joint.

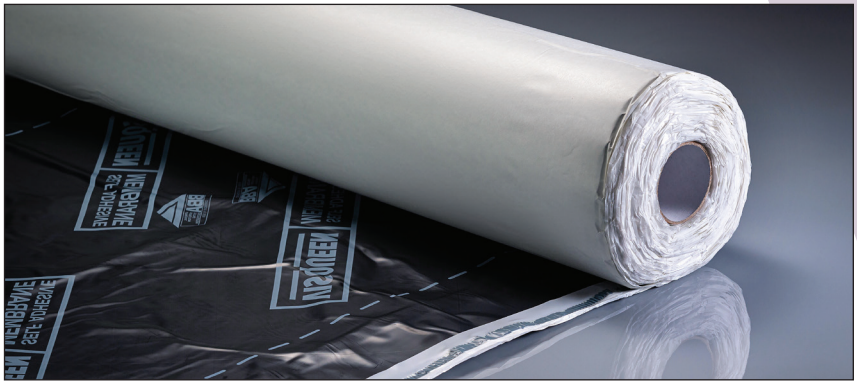
The membrane must be fully bonded to the prepared substrate using the gas torch-on technique. For horizontal work, an approximate 500mm neck tube and 50mm diameter propane gas burner should be used and for vertical and detailing work, an approximate 200mm neck tube and 35mm diameter propane gas burner is appropriate. During bonding, ensure that a constant flow of bitumen is maintained across the full width of the roll and that a bead of bitumen is extruded from each edge demonstrating that a correct seal has been obtained.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen HP Tanking Primer, 5L
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen Protect&Drain
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen Pile Cap Sealer, 25kg
- Visqueen IGW5 and IGW10 Waterstops





Installation

Visqueen Self Adhesive Membrane lap joints should be a minimum of 150mm and should be pressed and rollered to form a continuous bond and to ensure watertightness.

At 90 degree changes of direction a Visqueen Axiom UniSeal fillet should be formed prior to membrane installation. Substrates must be primed with Visqueen HP Tanking Primer.

For vertical applications cut the membrane to a suitable length allowing an additional 150mm for laps. Position and peel back release film and apply the self adhesive face to the substrate. Apply pressure to ensure a full bond is achieved. Commence at the top of the wall and work downwards, progressively removing the release film.

For full installation instructions, please see product Technical Datasheet

Product description

Visqueen Self Adhesive Membrane is a modified bitumen rubber membrane with a self adhesive coating protected by a removable polyethylene release film. It is dark grey on the upper surface and supplied in rolls 1m x 20m.

Usage

Visqueen Self Adhesive Membrane is a cold applied product, suitable for use as a Type A Barrier Membrane (Tanking Membrane) for above and below ground applications e.g. basements, retaining walls and lift pits. The membrane can be applied to a variety of substrates including concrete, blockwork, brickwork, particle boards and steelwork, in both vertical and horizontal applications.

The membrane can be used to achieve waterproofing to Grades 1, 2 and 3 as defined in BS 8102:2022.

Features and benefits

- BBA certified - third party accreditation
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- Also provides radon and damp proof membrane protection
- Self adhesive application - no jointing tapes required



System components

- Visqueen HP Tanking Primer, 5L
- Visqueen Top Hat Units
- Visqueen TreadGUARD 1500, 1m x 2m
- Visqueen Protect&Drain
- Visqueen Pile Cap Sealer, 25kg
- Visqueen IGW5 and IGW10 Waterstops

Product description

Visqueen Ultimate Geoseal is a 1mm thick, robust pre-applied waterproofing barrier. It is coloured grey on the upper surface and black on the reverse.

The grey surface is textured to aid adhesion to cast concrete.

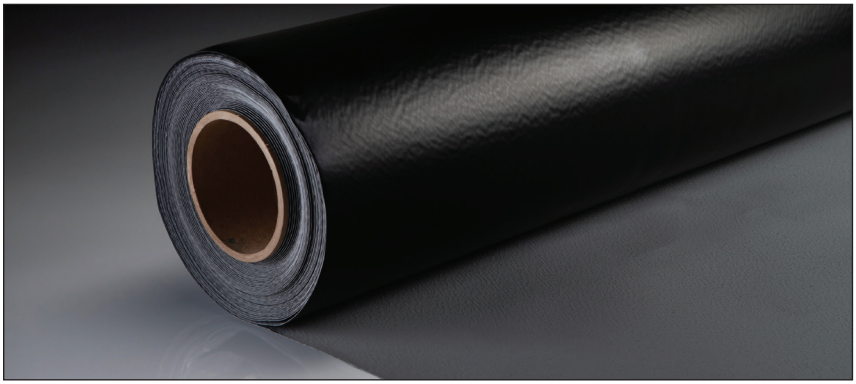
The barrier is supplied in single wound rolls (not folded), 2.44m x 20.5m.

Usage

Visqueen Ultimate GeoSeal is a pre-applied fully bonded Type A Barrier Membrane (Tanking Membrane) for use with below ground reinforced concrete structures e.g. basements, retaining walls, lift pits and car parks. The barrier also prevents the ingress of harmful levels of volatile organic compounds (VOCs) and hazardous ground gases.

Features and benefits

- Agrément certified - third party accreditation
- Complies with NHBC Foundation's NF94 guidance for use in Type B and Type C membrane locations
- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2022
- High resistance to impact compared to standard Visqueen DPMs - greatly reduces risk of barrier becoming damaged during the build process
- Also provides radon and damp proof membrane protection
- Dual jointing methods - depending upon specification, lap joints can be taped or heat welded



Installation

Visqueen Ultimate GeoSeal should be loose laid on horizontal substrates and pre-applied to vertical substrate with the grey textured side facing towards the wet cast concrete so that a key to the concrete can be achieved.

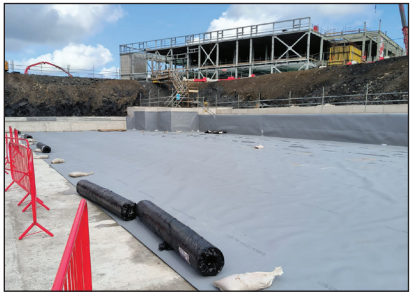
The barrier has been designed to exhibit superior welding properties using hot wedge, hot air or extrusion welding, therefore onsite welding of all lap joints is recommended for all applications, and should be employed when hydrostatic water pressure or hydrocarbon/VOC contamination is present.

Alternatively, when the barrier is used for damp proofing, ground gas protection and sites where hydrostatic water pressure or hydrocarbon/VOC contamination is of low risk, lap joints can be bonded with Visqueen 100mm Double Sided Butyl Tape and sealed with Visqueen NF-150 Lap Tape.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape 100mm x 15m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Ultimate Retaining Discs, 50mm long x 35mm head diameter x 500 per box
- Visqueen Ultimate Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

Installation must be in accordance with BBA certificate 20/5783. Visqueen IGW Admix is used in the ratio of one 4.1kg bag for each 1m^3 of concrete.

Ready Mix Plant - add the Visqueen IGW Admix soluble bag and contents to water e.g. approximately 2 bags (8.2kg) of admix mixed with 10L of water. Pour the required amount of material into the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant in accordance with standard practices (taking into account the quantity of water that has already been placed in the ready-mix truck). Pour the concrete into the truck and mix for at least 5 minutes to ensure even distribution of the admix throughout the concrete.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen IGW5 and IGW10 Waterstops
- Visqueen IGW Pipe Strap
- Visqueen Waterstop Adhesive, 310ml cartridge

Product description

Visqueen IGW Admix is a crystalline waterproofing admixture powder consisting of a blend of specially selected chemicals. The Admix is suitable for CEM1 (100% cement content), CEM2 (up to 35% cement replacement), and GGBS (up to 70% cement replacement) mixes. When combined with ready mix concrete at batching plant, it produces a crystalline reaction which enhances water resistance and durability of the cured concrete. The product is available in a tub consisting of six 4.1 kg soluble bags and used in the ratio of one 4.1kg bag for each 1m^3 of concrete.

Usage

Visqueen IGW Admix is used to provide Type B watertight concrete protection in accordance with BS 8102:2022. Typically the product is used in reinforced concrete basement walls and floors.

When used as a combined system in accordance with BS 8102, the Type B watertight concrete is used in conjunction with a Type A barrier membrane such as Visqueen Pre Applied Membrane and/or a Type C cavity drain system such as Visqueen V8 and V20 Cavity Drain System.

Features and benefits

- Crystalline growth - provides continuous protection for the lifetime of the concrete structure
- Reduces water penetration - reduced permeability when compared to an equivalent plain concrete
- Improves reinforcement protection - enhanced resistance to reinforcement corrosion when compared with an equivalent plain concrete

Structural Waterproofing Waterstops

Product description

Visqueen IGW5 and IGW10 Waterstops are swellable hydrophilic polymer waterstops. Manufactured from thermoplastic synthetic rubber, the products are lightweight and highly flexible. Both products are coloured blue for ease of recognition.
Visqueen IGW5 Waterstop is supplied in 10m long strips, 20mm wide and 5mm high. There are 5 strips per box (50m total).

Visqueen IGW10 Waterstop is supplied in 10m long strips, 20mm wide and 10mm high. There are 7 strips per box (70m total).

Usage

Visqueen IGW5 and IGW10 Waterstop are used to block the passage of ground water at construction joints and day-joints in poured in-situ below ground concrete structures which are 175mm wide or wider e.g. retaining walls.
For concrete thicknesses between 175mm and 300mm, use Visqueen IGW5 Waterstop. For concrete thicknesses wider than 300mm, use Visqueen IGW10 Waterstop.

The waterstops are not intended for use in expansion joints. For salt water or contaminated water applications, contact Visqueen Technical Services +44 (0) 333 202 6800.

Features and benefits

- Agrement certified - third party accreditation
- Suitable for both horizontal and vertical construction joints
- Inbuilt activation delay - suitable for use in wet weather conditions
- Visqueen Waterstop Adhesive eliminates the need for mechanical fixings



Installation

Visqueen IGW5 and IGW10 Waterstops should not be mechanically fixed. Bed the 20mm wide face of the waterstops on an approximate 10mm continuous bead of Visqueen Waterstop Adhesive and press firmly into position. When applying the adhesive, the bead should be sufficient to level any minor roughness in the substrate and extrude slightly from either side of the waterstop when pressed into position. Application of the waterstop must be completed within 90 minutes of applying the adhesive.

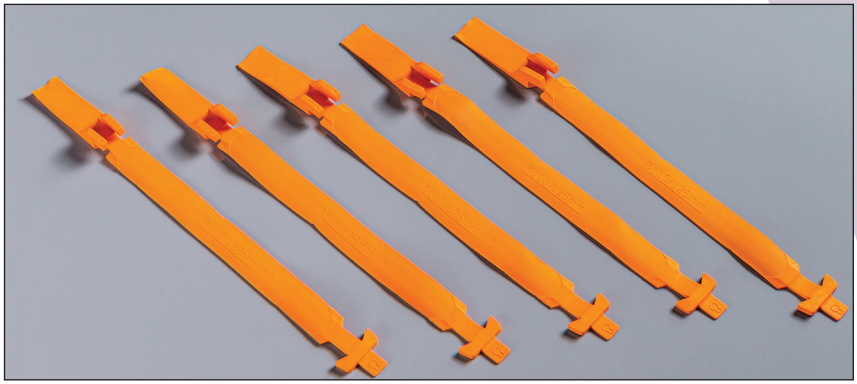
The waterstop should be positioned centrally between the inner and outer rows of reinforcing bars ensuring a minimum of 75 mm concrete coverage of the waterstop at all edges.

At ends and junctions, closely butt joint the waterstop and apply a 10mm bead of adhesive over the butt joint to seal the junction.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Waterstop Adhesive, 310ml



Installation

Refer to Visqueen drawing IGW-PS-01.

Extend the pipe strap around the pipe and interlock the crossed end of the strap into the toothed recess. Ensure that the strap is tight against the pipe and that the tail end of the strap lies flat against the pipe and is not twisted or folded.

Once applied, pour concrete over the exposed pipe strap within 48 hours. Prior to pouring the concrete, the pipe strap should be inspected for damage and premature swelling. Damaged and/or swollen product must be replaced at this stage.

When pouring the concrete, compact well around the pipe strap taking particular care not to dislodge or damage the product during the process.

For full installation instructions, please see product Technical Datasheet



Product description

Visqueen IGW Pipe Strap is a swellable hydrophilic polymer waterstop. Manufactured from thermoplastic synthetic rubber, the product is lightweight and highly flexible. The strap is coloured orange for ease of recognition.

Visqueen IGW Pipe Strap is supplied in packs of 5 straps.

Usage

Visqueen IGW Pipe Strap is specifically designed for sealing around pipework positioned in below ground cast in-situ concrete structures. The product blocks the passage of ground water at the pipe-concrete interface.

For salt water or contaminated water applications, contact Visqueen Technical Services +44 (0) 333 202 6800.

Features and benefits

- Agrement certifed - third party accreditation
- Versatile - suitable for 110mm to 125mm outside diameter pipework
- Inbuilt activation delay - suitable for use in wet weather conditions
- No tools required for installation

VISQUEEN IGW PIPE STRAP

Structural Waterproofing Pile Cap Sealer

Product description

Visqueen Pile Cap Sealer is a grey cementitious compound containing portland cement, graded quartz sands, aggregates and chemical additives.
It is available in 25kg tubs.

Usage

Visqueen Pile Cap Sealer is used to make the concrete surface waterproof for waterproofing Grades 1, 2 and 3 in accordance to BS8102:2022. It can be used on concrete piles, exposed pile cap rebar, ground beams or concrete junctions as a link between membranes, or it can be used as a standalone waterproof system. It is also used where traditional membranes are not suitable. Visqueen Pile Cap Sealer can be applied internally and externally and is suitable in compressed load applications such as a piled cap to concrete slab junctions.

Features and benefits

- Cementitious material
- Creates a continuous watertight seal through concrete pile cap junctions



Installation

Please do not pour the water into the powder. The powder is added into a bucket of water at the ratios stated below.

Visqueen Pile Cap Sealer should be mixed with water at the following ratio by volume:

4 parts Visqueen Pile Cap Sealer

1 part clean water

Apply Visqueen Pile Cap Sealer to the full area of the pile cap including minimum 100mm vertically. Mechanically mix Visqueen Pile Cap Sealer at an approximate ratio of 4:1 with clean water by volume by adding the powder into the water. Coverage rate is 1.5kg/m^2. This can be achieved by applying either one coat or two (2 x 0.75 kg/m^2). The second coat should be applied whilst the first coat is still green.

For full installation instructions, please see product Technical Datasheet



Notes

Damp Proof Courses



Damp Proof Courses Cavity Tray Systems

Product description

Visqueen Zedex CPT High Performance Damp Proof Course (DPC) is a black, flexible 0.8mm co-polymer thermoplastic (CPT) damp proof course and cavity tray system.

It is manufactured from a mixture of thermoplastic polymers and additives including elastomers.

It is supplied in 20m length rolls and various widths from 100mm to 1400mm including 450mm and 600mm.



Usage

Visqueen Zedex CPT High Performance Damp Proof Course is suitable for installation in internal walls to prevent rising damp. The DPC is also suitable for installation in external cavity walls with a masonry outer leaf, including walls with a light gauge steel frame, structural timber frame or masonry inner leaf. The DPC is suitable for residential, commercial and multi storey buildings.

The DPC can be site formed into built-in or surface fixed cavity trays to manage the downward passage of water in cavity wall applications. The DPC is also suitable for use as a gas DPC for NHBC Amber 1 conditions or where radon gas exists.

Features and benefits

- BBA certified - third party accreditation
- Assessed in accordance with Technical Requirement R3 - conforms to NHBC requirements and suitable for NHBC sites
- Gas resistant - part of the Visqueen Low Permeability Gas Membrane system to provide gas protection to NHBC Amber 1
- Used in conjunction with the Visqueen Radon membranes to provide radon protection
- Widths from 100mm to 1400mm
- Visqueen Preformed Units available - simplifies complex or awkward detailing

Installation

When built into a masonry wall construction Visqueen Zedex CPT High Performance Damp Proof Course should be installed on an even bed of wet mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the DPC, lay at least one further course of masonry including a bed of mortar. If positioned on the sleeper walls below a suspended ground floor e.g. beam and block floor system, the DPC can be dry laid, however all sharp protrusions must be removed from the substrate. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen HP Tanking Primer, 5L
- Visqueen Zedex DPC Surface Fixing System
- Visqueen Preformed Units
- Visqueen DPC Joint Support
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

When built into a masonry wall construction Visqueen Zedex High Bond Damp Proof Course should be installed on an even bed of wet mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the DPC, lay at least one further course of masonry including a bed of mortar. Where the specification requires, the DPC can be fully heat bonded to the primed substrate. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen HP Tanking Primer, 5L
- Visqueen Zedex DPC Surface Fixing System
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m

Product description

Visqueen Zedex High Bond Damp Proof Course is a DPC and cavity tray system manufactured with a polyester reinforced carrier, rubber modified bituminous coating and surfaced on both sides with a fine silica sand. It is supplied in 8m length rolls and the following widths: 450mm, 600mm and 1000mm.

Usage

Visqueen Zedex High Bond Damp Proof Course is suitable for masonry applications including residential and commercial up to and including three storey buildings. It can be site formed into a built-in or surface fixed cavity tray to manage the downward passage of water in cavity wall applications. It can also be used on sleeper walls below a ground floor construction e.g. beam and block floor system.

Due to its superior mortar adhesion, the DPC is ideal for use on buildings where a low imposed load occurs but a high mortar bond is required e.g. parapet walls, beneath masonry coping or capping. The DPC reduces the risk of masonry slippage due to poor mortar adhesion.

Features and benefits

- Manufactured in excess of British Standard 6398
- Sand surfaced product - used where low compressive load applications occur
- Heat bonded material - suitable to form complex or awkward detailing on site
- Modified bituminous coating - laps can be tape bonded or heat bonded

Damp Proof Courses Cavity Tray Systems

Product description

Visqueen Zedex Housing Grade Damp Proof Course (DPC) is a black, flexible 0.6mm damp proof course and cavity tray system. It is supplied in 20m length rolls and the following widths: 100mm, 112.5mm, 150mm, 225mm, 300mm, 337.5mm, 450mm, 600mm, 750mm and 900mm.

Usage

Visqueen Zedex Housing Grade Damp Proof Course is designed for residential buildings up to and including 3 storeys high. The DPC is suitable for installation in internal walls to prevent rising damp. The DPC is also suitable for installation in external cavity walls with a masonry outer leaf, including walls with a light gauge steel frame, structural timber frame or masonry inner leaf. The DPC can be site formed into built-in or surface fixed cavity trays to manage the downward passage of water in cavity wall applications. The DPC can also be used on sleeper walls below a ground floor construction e.g. beam and block floor system.

Features and benefits

- BBA certified - third party accreditation
- Assessed in accordance with Technical Requirement R3 - conforms to NHBC requirements and suitable for NHBC sites
- Widths from 100mm to 900mm
- Visqueen Preformed Units available - simplifies complicated junctions e.g. cavity tray corners



Installation

When built into a masonry wall construction Visqueen Zedex Housing Grade Damp Proof Course should be installed on an even bed of wet mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the DPC, lay at least one further course of masonry including a bed of mortar. If positioned on the sleeper walls below a suspended ground floor e.g. beam and block floor system, the DPC can be dry laid, however all sharp protrusions must be removed from the substrate. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

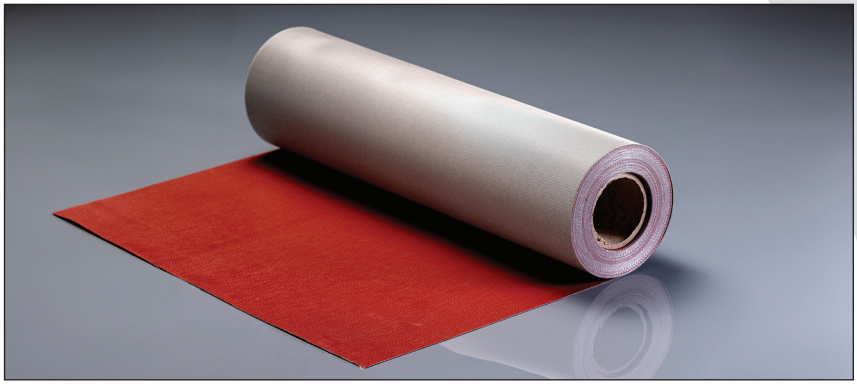
When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen HP Tanking Primer, 5L
- Visqueen Zedex DPC Surface Fixing System
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m





Installation

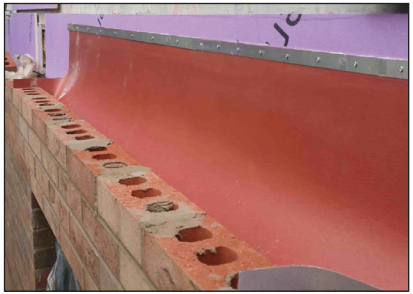
Visqueen Zedex Non-Combustible DPC must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration.

When surface fixing the preformed units to weather defence boards, they should be permanently secured to the inner leaf substrate using 12mm shank austenitic stainless steel staples at 150mm centres.

When surface fixing the preformed units to concrete, masonry, etc., they should be permanently secured to the inner leaf substrate using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate.

When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf depending upon the type of wall construction.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 strips per pack
- Visqueen Non-Combustible Preformed Units
- Visqueen DPC Joint Support
- Visqueen Zedex Non-Combustibe Flexi Preformed Units

Product description

Visqueen Zedex Non-Combustible Damp Proof Course (DPC) achieves a reaction to fire classification A2 - s1, d0. The product is compliant with the requirements of The Building Regulations 2010 (England and Wales) (as amended) and The Building (Scotland) Regulations 2004 (as amended).

The DPC is a flexible 0.6mm composite damp proof course and cavity tray system. It is supplied in 20m length rolls and the following standard widths: 100mm, 150mm, 225mm, 300mm, 450mm, 500mm, 600mm, 700mm, 800mm and 900mm.

Usage

Visqueen Zedex Non-Combustible Damp Proof Course and cavity tray is designed for cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings.

The product is used where a DPC or DPC cavity tray is required to achieve a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Zedex NonCombustible DPC should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fre classifcation A2 - s1, d0 to BS EN 13501-1:2018 by Warrington Fire - compliant with UK Building Regulations
- Flexible preformed corner units available - Visqueen Zedex Non-Combustible Flexi PFUs
- Range of system components - Visqueen Non-Combustible Fixing Strip and DPC Joint Supports available

Product description

Visqueen Ultimate Gas DPC is a 0.5mm thick, flexible 7 layer co-extruded film providing volatile organic compound (VOC) and ground gas resistance.

The DPC has an embossed/debossed finish, is coloured gold/white and can be installed with either surface facing upwards.

It is supplied in 20m length rolls and the following widths as standard: 500mm, 600mm, 750mm and 900mm.

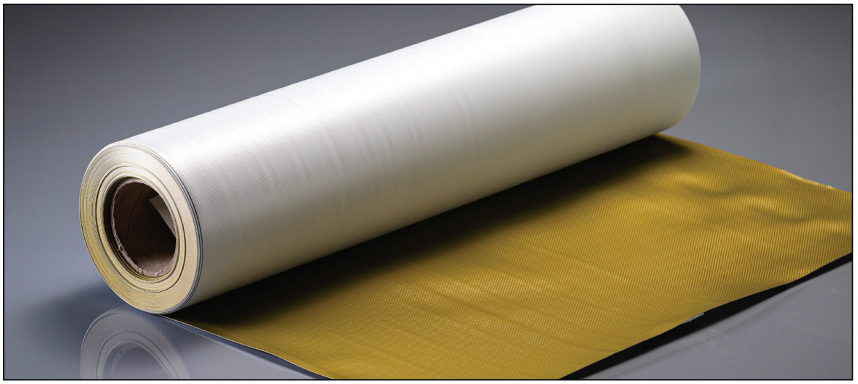
Usage

Visqueen Ultimate Gas Damp Proof Course is suitable for installation in external cavity walls with a masonry outer leaf, including walls with a light gauge steel frame, structural timber frame or masonry inner leaf. The DPC is suitable for residential, commercial and multi storey buildings. It can be site formed into a built-in or surface fixed cavity tray to manage the downward passage of water in cavity wall applications.

The DPC is used to prevent harmful volatile organic compounds (VOCs) and hazardous ground gases from entering into the cavity from the ground or entering the building via internal walls. The DPC is also suitable for use on NHBC Amber 1 and 2 sites or where radon gas exists. It can also be used on sleeper walls below a ground floor construction e.g. beam and block floor system.

Features and benefits

- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with the methane gas transmission rate, mass per unit area and thickness requirements of BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Provides protection against radon, carbon dioxide, methane and VOCs
- Dual jointing methods - depending on specification, lap joints can be taped or heat welded
- Visqueen Ultimate Preformed Units available - simplifies complicated detailing e.g. corners



Installation

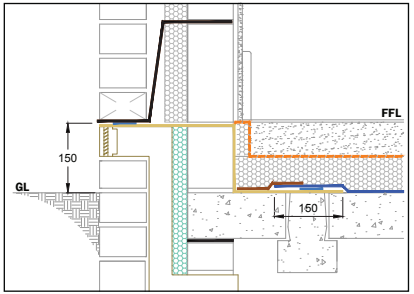
When built into a masonry wall construction the DPC should be installed on an even bed of wet mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the DPC, lay at least one further course of masonry including a bed of mortar. If positioned on the sleeper walls below a suspended ground floor e.g. beam and block floor system, the DPC can be dry laid, however all sharp protrusions must be removed from the substrate. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

When used as a site formed cavity tray, the DPC can be either built-in to the inner leaf or surface fixed to the cavity face of the inner leaf.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen Zedex DPC Surface Fixing System
- Visqueen Ultimate Preformed Units
- Visqueen DPC Joint Support
- Visqueen HP Tanking Primer, 5L





Installation

Visqueen Zedex Non-Combustible Flexi Preformed Units must be installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration. NB During installation, internal corner units must be manipulated so that the red surface faces upwards or outwards.

The preformed units are designed to be surface fixed (face fixed) to the inner leaf and allow for a 150mm vertical rise in the cavity tray profile. When surface fixing the preformed units to weather defence boards, they should be permanently secured to the inner leaf substrate using 12mm shank austenitic stainless steel staples at 150mm centres.

When surface fixing the preformed units to concrete, masonry, etc., they should be permanently secured to the inner leaf substrate using Visqueen Non-Combustible Fixing Strip and stainless steel fixings suitable for the substrate.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 per pack
- Visqueen DPC Joint Support

Product description

Visqueen Zedex Non-Combustible Flexi Preformed Units are manufactured from Visqueen Zedex Non-Combustible DPC. The range consists of surface fixed (face fixed) external and internal 90 degree corner units with a 150mm vertical rise and 100mm vertical fixing flange. The innovative design allows each unit to be suitable for an approximate 50mm cavity width variance when incorporated into a brickwork outer leaf.

External and internal surface fixed units are available for the following cavity width ranges: 40-100mm, 100-150mm, 150-200mm, 200-250mm, and 250-300mm.

NB. Cavity width is measured from the cavity face of the inner leaf e.g. weather defence board, to the cavity face of the masonry outer leaf. The units are rolled up, individually wrapped and supplied 4 per box.

Usage

Visqueen Zedex Non-Combustible Flexi Preformed Units are specifically designed for use with a surface fixed, sloping Visqueen Zedex Non-Combustible DPC cavity tray with a 150mm vertical rise between the outer and the inner leaf. This cavity tray profile is shown in Visqueen drawing DPC-ZXNC-03. The units are designed to fit a 90 degree masonry corner.

Features and benefits

- Off-the-shelf surface fixed external and internal 90 degree corner units - reduced lead times
- Off-site factory manufactured - reduces the risk of water ingress
- Flexible 90 degree corner units - provides an allowance for site tolerances
- Corner units designed for approx. 50mm variance in cavity widths - each unit suitable for cavity widths within a specific range

VISQUEEN ZEDEX NON-COMBUSTIBLE FLEXI PREFORMED UNITS

Damp Proof Courses Preformed Cavity Tray Units

Product description

Visqueen Non-Combustible Preformed Units are factory manufactured, made to order, three dimensional shapes. The units are manufactured as standard from stainless steel to BS EN 10088 grade 1.4301 (BS 1449 grade 304). Other stainless steel grades are also available.

Usage

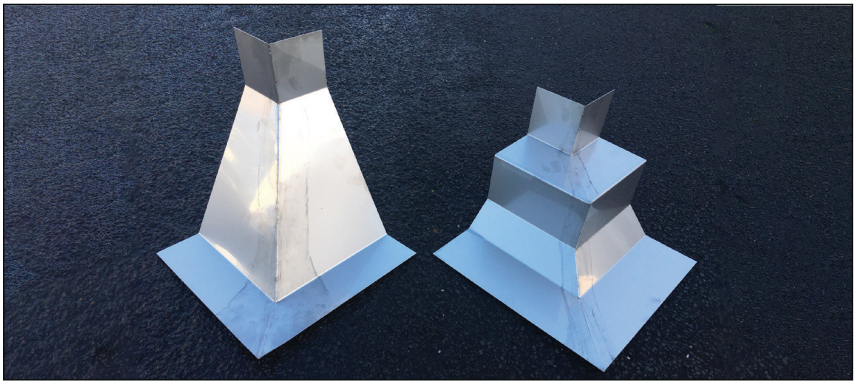
Visqueen Non-Combustible Preformed Units are designed for detailing complicated junctions in cavity wall constructions including those with a structural framing system inner leaf and a masonry outer leaf, in residential, commercial and multi-storey buildings.

In conjunction with Visqueen Zedex Non-Combustible DPC and associated system components, the units are used where a DPC cavity tray is required that achieves a minimum reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018.

Care should be taken by the Designer to ensure suitability for applications other than those stated above.

Features and benefits

- Range of rigid non-combustible units - provides cavity tray design solutions
- Manufactured - reduces the risk of water ingress at complicated junctions
- Three dimensional shapes - simplifies complex detailing
- Extensive range - suitable for a variety of awkward cavity tray locations such as corners or changes in level
- Available for different surface fixed cavity tray profiles



Installation

When used for sealing complex junctions in cavity tray applications, VIsqueen Non-Combustible Preformed Units should be installed prior to the main run of the cavity tray material.

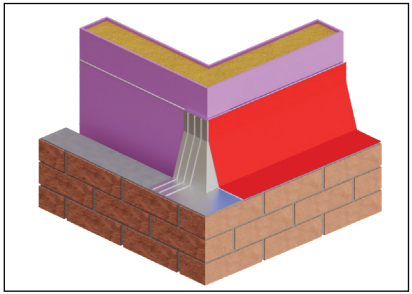
All DPC to Preformed Unit laps should be a minimum of 100mm and sealed with Visqueen Zedex Mastic.

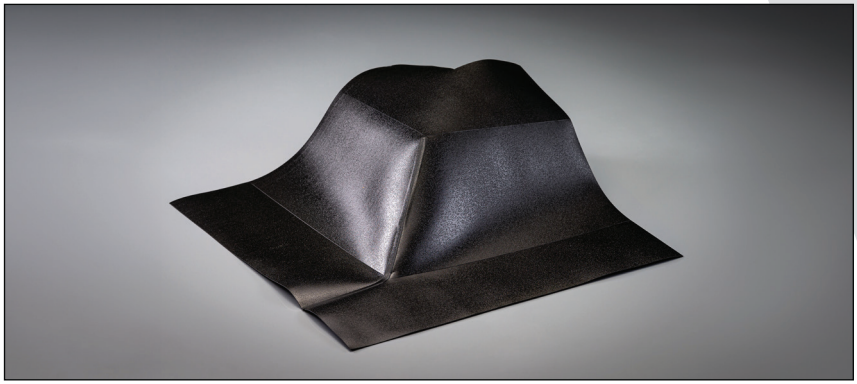
Where the Preformed Unit is surface fixed to the inner leaf of a cavity wall construction, the vertical portion of the unit should be sealed to the inner leaf with Visqueen Zedex Mastic. Visqueen Non-Combustible Fixing Strip should be used to secure the upper edge of the unit to provide a permanent mechanical fix using stainless steel fixings appropriate for the substrate.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen Zedex Mastic, 380ml
- Visqueen Non-Combustible Fixing Strip, 1240mm long, 17 per pack





Installation

When used for sealing complex junctions in cavity tray applications, VIsqueen Preformed Units should be installed prior to the main run of the cavity tray material, and the lap joints bonded with Visqueen 100mm Double Sided Butyl Tape.

Where the Visqueen Preformed Unit is required to be surface fixed to the inner leaf of a cavity wall construction the vertical portion of the unit should be bonded to the inner leaf with Visqueen 100mm Double Sided Butyl Tape, the substrate having been previously primed with Visqueen High Performance Tanking Primer and allowed to dry.

Visqueen Zedex DPC Fixing Strip should be used to secure the upper edge of the unit using appropriate Visqueen Fixing Pins (or alternative approved) to provide a permanent mechanical fix.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen Zedex DPC Surface Fixing System
- Visqueen DPC Joint Support

Product description

Visqueen Preformed Units (PFUs) are factory manufactured three dimensional shapes. The units are formed from either Visqueen Zedex CPT High Performance DPC (Zedex Units) or Visqueen Ultimate Gas DPC (Ultimate Units).

Usage

Visqueen Preformed Units are designed for detailing complicated cavity tray junctions in masonry cavity wall constructions including walls with a light gauge steel frame, structural timber frame or masonry inner leaf.

The units can also be used for complex junctions associated with membrane applications within floor constructions, e.g. door thresholds and corners etc. The units can also be used to prevent harmful ground gases from entering into the building at the above junctions.

Features and benefits

- Visqueen Preformed Units - part of the Visqueen Zedex and Visqueen Ultimate Gas DPC systems
- Off-site factory manufactured - reduces the risk of water ingress
- Three dimensional shapes - simplifies detailing at complicated junctions
- Flexible materials - provides an allowance for site tolerances
- Extensive range - used for both built-in and surface fixed cavity tray applications
- Used for both damp and gas proofing applications
- Compatible with all Visqueen damp and gas proof courses and membranes

Damp Proof Courses

Product description

Visqueen Polyethylene Damp Proof Course is a black, flexible 0.5mm damp proof course manufactured to BS 6515:1984 suitable for masonry wall constructions. It is supplied in 30m length rolls and the following widths: 100mm, 112.5mm, 150mm, 225mm, 300mm, 337.5mm, 450mm, 600mm, 900mm and 1200mm.

Usage

Visqueen Polyethylene Damp Proof Course is suitable for various masonry applications in accordance with Appendix D of BS 6515:1984.

The above standard recommends that the DPC is not suitable for use above lintels in cavity walls i.e. not suitable for use as a cavity tray.

Where relevant, please refer to warranty providers standards to ensure suitability for the application considered e.g. some warranty providers state that damp proof courses manufactured to BS 6515: 1984 are not suitable for use as cavity trays but are suitable for use as a DPC to prevent moisture rising from the ground.

Features and benefits

- Manufactured to British Standard - achieves minimum DPC requirements
- Manufactured using a minimum 85% recycled polyethylene
- Diamond embossed surface - improves mortar adhesion
- Minimum DPC standard - cost effective option



Installation

When built into a masonry wall construction Visqueen Polyethylene Damp Proof Course should be installed on an even bed of wet mortar, and any perforations in adjacent courses of masonry should be completely filled with mortar. To ensure mortar adhesion, as soon as possible after laying the DPC, lay at least one further course of masonry including a bed of mortar. If positioned on the sleeper walls below a suspended ground floor e.g. beam and block floor system, the DPC can be dry laid, however all sharp protrusions must be removed from the substrate. The DPC must extend through the full thickness of the masonry wall, including pointing, applied rendering or other facing materials.

All DPC to DPC laps should be a minimum of 100mm and bonded with Visqueen 100mm Double Sided Butyl Tape.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m



Notes

Air & Vapour Control



Air & Vapour Control Membrane

Product description

Visqueen A2 Vapour Barrier is a multi-layer reinforced aluminium AVCL (air and vapour control layer). The product has a reflective aluminium finish on the upper surface and a matt aluminium surface on the reverse. The barrier is supplied in single wound rolls (not folded), 1.2m x 50m long.

Usage

Visqueen A2 Vapour Barrier is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018. The barrier is used 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 and is suitable for humidity classes 1, 2, 3, 4 and 5 to BS 5250:2021.

For conformity with the reaction to fire classification, usage of Visqueen FR+ Vapour Tape must not exceed 10% of the area of the Visqueen A2 Vapour Barrier.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen A2 Vapour Barrier should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fire classification A2 - s1, d0 to BS EN 13501-1:2018 - compliant with UK Building Regulations
- Used within floor, wall and roof constructions
- Single wound roll



Installation

Visqueen A2 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 airtightness and vapour control performance.

All joints in the barrier should be lapped by 75mm and sealed with Visqueen FR+ Vapour Tape applied centrally over the lap. To aid formation laps should be made over a solid substrate.

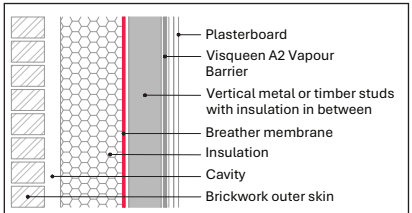
Ensure barrier continuity at the junction of horizontal and vertical substrates. Seal abutments with Visqueen FR+ Vapour Tape applied centrally over the junction. Failure to suitably connect the barrier to other building elements will severely reduce airtightness and vapour control performance.

Please note that the product's A2 fire classification does not cover the use of any alternative tapes.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR+ Vapour Tape, 75mm x 25m



Typical section through external wall. Location of breather membrane (by others) may vary depending upon specification.



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 rollered 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.

For full installation instructions, please see product Technical Datasheet

System components

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

Product description

Visqueen Fully Bonded Vapour Barrier is a foil lined, rubber modified bitumen 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.

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 subjected to high humidity levels e.g. dwellings with high occupancy, sports halls, canteens, school classrooms, hospitals, laundries and swimming pools.

Features and benefits

- Used within floor, wall and roof constructions
- Self adhesive application - no jointing tapes required
- Self adhesive coating - self seals around penetrating mechanical fixings

VISQUEEN FB VAPOUR BARRIER

Air & Vapour Control Membrane

Product description

Visqueen NF-Vapour Barrier is a co-extruded, multi-layer thermoplastic barrier, 0.4mm thick (400 micron). The membrane is transparent with a blue tint and supplied 2.4m x 43.5m in a single wound roll.

Usage

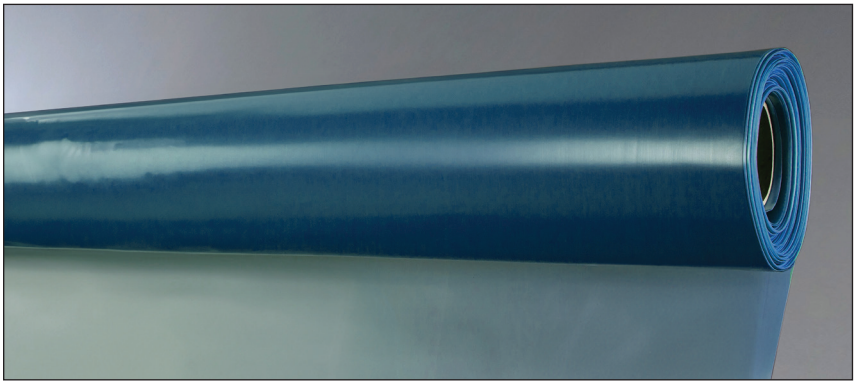
Visqueen NF-Vapour Barrier is an air and vapour control layer (AVCL) and is used in low, medium and high condensation risk buildings to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

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

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



Installation

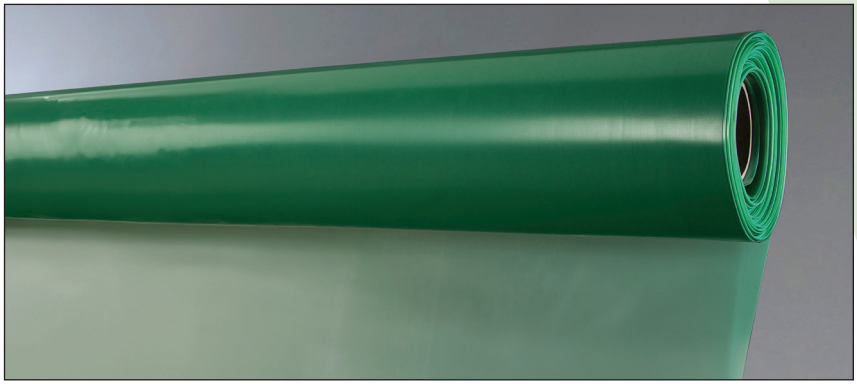
Visqueen NF-Vapour Barrier should be installed in accordance with the recommendations of BS 5250:2021 Management of moisture in buildings - code of practice. The barrier should be installed on the warm side of the insulated structure, with care being taken to ensure that all laps, penetrations and abutments are sealed. The barrier should be continuous in order to ensure optimum performance.

Apply Visqueen FR Double Sided Vapour Tape to securely bond the barrier to structural components, including vertical studs, horizontal noggins, head plates, and sole plates. Progressively peel off the tape release film and apply the barrier ensuring adhesion e.g. with a seam roller.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m (5 rolls per box)
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m (5 rolls per box)
- VisqueenPro Vapour Edge Tape, 150mm x 15m



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 rollering with a seam roller.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m (5 rolls per box)
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m (5 rolls per box)
- VisqueenPro Vapour Edge Tape, 150mm x 15m

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) 2m x 50m roll format.

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.

Features and benefits

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

Air & Vapour Control Membrane

Product description

Visqueen Vapour Check is a green tinted, semi transparent polyethylene air and vapour control layer (AVCL). The membrane is supplied in multifolded rolls, 2.45m x 50m and 4m x 50m.

Usage

Visqueen Vapour Check is an air and vapour control layer (AVCL) and is used in low condensation risk buildings to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

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

The membrane is designed to be installed to the warm side of floors, walls and roofs.

Features and benefits

- Used within floor, wall and roof constructions
- Large format rolls
- Semi-transparent - stud locations visible through membrane



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.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m (5 rolls per box)
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m (5 rolls per box)
- VisqueenPro Vapour Edge Tape, 150mm x 15m





Installation

Visqueen Class B FR Vapour Check should be installed in accordance with the recommendations of BS 5250:2021 Management of moisture in buildings - code of practice. The membrane 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 airtightness and vapour control performance.

Visqueen FR Double Sided Vapour Tape is available for bonding the membrane to substrates such as metal or timber studs or noggings.

All joints in the membrane should be lapped by minimum 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 e.g. located on studs or noggings.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR Double Sided Vapour Tape, 20mm x 50m (5 rolls per box)
- Visqueen FR Single Sided Vapour Tape, 50mm x 50m (5 rolls per box)

Product description

Visqueen Class B FR Vapour Check is an orange tinted, semi transparent modified polyethylene AVCL (air and vapour control layer).

The membrane is supplied in centre-folded rolls 2.45m x 50m and multi-folded rolls 4m x 50m.

Usage

Visqueen Class B FR Vapour Check is used in buildings where an air and vapour control layer (AVCL) is required that achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018. The membrane is used to reduce the risk of interstitial condensation occurring within the structure as well as improving the airtightness of the building.

The membrane restricts the passage of warm, moist air within the building from permeating into the floor, wall or roof structure and is designed to be installed on the warm side of the structure.

For conformity with the reaction to fire classification, usage of Visqueen FR Single Sided Vapour Tape must not exceed 10% of the area of the Visqueen Class B FR Vapour Check.

Care should be taken by the Designer to ensure suitability for applications other than those stated above. Visqueen Class B FR Vapour Check should be approved by all stakeholders prior to use.

Features and benefits

- Achieves a reaction to fire classification B - s1, d0 to BS EN 13501-1:2018 - compliant with UK Building Regulations
- Used within floor, wall and roof constructions
- Large format roll

VISQUEEN CLASS B FR VAPOUR CHECK

Notes

Stormwater



Stormwater Membrane

Product description

Visqueen High Performance Urban Drainage Geomembrane is a robust thermoplastic geomembrane, black in colour, 1mm thick and supplied in single wound rolls (not folded), 1.4m x 50m.

Usage

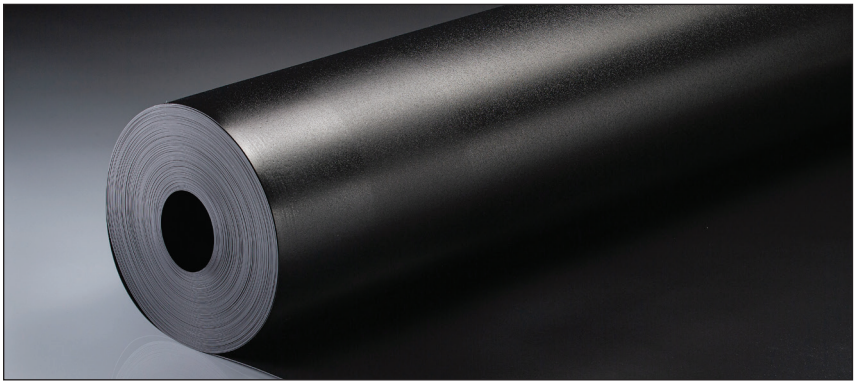
Visqueen High Performance Urban Drainage Geomembrane is used for the wrapping of underground stormwater attenuation crates in heavy duty situations (high water table), and as an impermeable membrane placed on top of the subgrade formation level and to the sides of the sub-base within a permeable paving system.

Regarding attenuation systems, Visqueen High Performance Urban Drainage Geomembrane is recommended when the depth of tank is 3 or more crates, as the product offers excellent welding characteristics and therefore the joints can resist hydrostatic pressure. The product can be used with taped joints but it is only advised if the tank has a depth of 2 crates or less.

The product is also used in applications such as containment and cut-off trenches, lagoons, canals and artificial lakes.

Features and benefits

- Used in stormwater attenuation systems and as an impermeable membrane in permeable paving systems
- Dual jointing methods - depending on specification, lap joints can be taped or heat welded



Installation

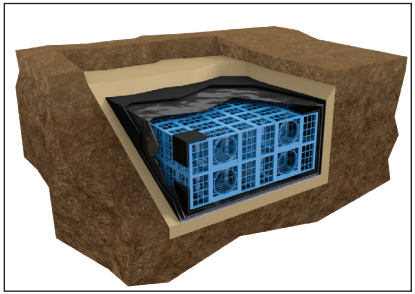
Visqueen High Performance Urban Drainage Geomembrane should be clean and dry at the time of jointing. The membrane exhibits superior welding properties making it ideal for on-site welding of joints and this method should be employed wherever possible. In certain applications the sealing of laps can be achieved using tapes. When taping joints, overlap by at least 150mm, bond with Visqueen 100mm Double Sided Butyl Tape and seal lap joints with Visqueen NF-150 Lap Tape. All lap joints should be pressed and rollered to ensure a completely sealed joint is achieved.

Where the depth of the stormwater attenuation crates equal or exceed 3 crates, lap joints should be heat welded.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Top Hat Units
- Visqueen TreadGUARD 300, 2m x 75m



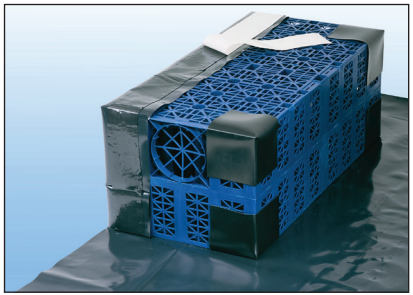


Installation

Visqueen Urban Drainage Geomembrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm and the lap bonded with Visqueen 100mm Double Sided Butyl Tape. In demanding site conditions also seal lap joints with Visqueen NF-150 Lap Tape, 150mm x 10m . All lap joints should be pressed and rollered to ensure a completely sealed joint is achieved.

Visqueen Preformed Top Hat Units should be used for sealing pipe penetrations. The base of the top hat and the upstand should be bonded using Visqueen 100mm Double Sided Butyl Tape. The upstand should be secured with the supplied jubilee clip. Alternatively VisqueenPro Detailing Strip or Visqueen NF-Detailing Strip can be used to seal pipe penetrations. If the geomembrane is punctured or perforated a patch of the same material should be lapped at least 150mm beyond the limits of the puncture and bonded with Visqueen 100mm Double Sided Butyl Tape.

For full installation instructions, please see product Technical Datasheet



System components

- Visqueen 100mm Double Sided Butyl Tape, 100mm x 15m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen NF-Detailing Strip, 300mm x 10m and 500mm x 10m
- Visqueen Top Hat Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen Medium Duty Protection Board
- Visqueen TreadGUARD 300, 2m x 75m

Product description

Visqueen Urban Drainage Geomembrane is manufactured from a minimum 80% recycled polyethylene. The geomembrane is black in colour, 0.5mm thick and supplied in multifolded rolls 4m x 12.5m.

Usage

Visqueen Urban Drainage Geomembrane is a flexible membrane suitable for a variety of geomembrane applications including the wrapping of underground stormwater attenuation crates in light duty situations (maximum 2 units deep), and as an impermeable membrane placed on top of the subgrade formation level and to the sides of the sub-base within a permeable paving system.

Features and benefits

- Used in stormwater attenuation systems and as an impermeable membrane in permeable paving systems

VISQUEEN URBAN DRAINAGE GEOMEMBRANE

Notes

Damp Proof Membranes



Damp Proof Membranes

Product description

Visqueen DPM is manufactured from a minimum 85% recycled polyethylene. The product is black in colour and available in three thicknesses: 0.25mm (4m x 25m), 0.3mm (4m x 25m) and 0.5mm (4m x 12.5m). All rolls are supplied multifolded.

Please note EcoMembrane is NOT accredited for radon applications. Please use either Visqueen Ultimate RadonBlok 600 or Visqueen Radon R400 Membrane.

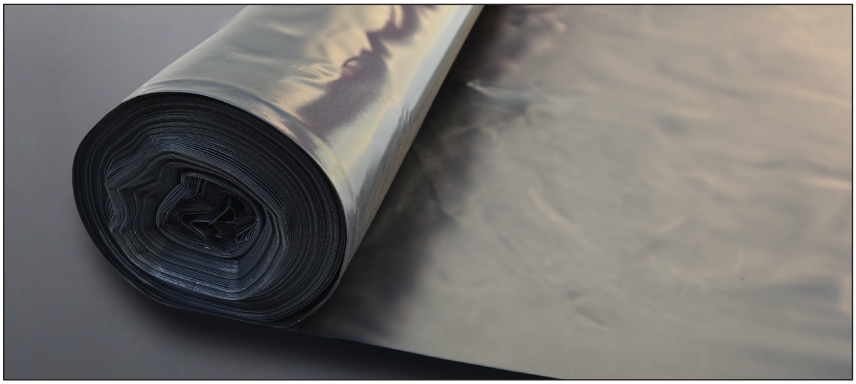
Usage

Visqueen DPM is suitable for use in ground floor constructions, positioned above or below the structural floor, to protect buildings against moisture from the ground.

The product is not intended for use where there is a risk of hydrostatic pressure or accredited for radon applications.

Features and benefits

- BBA certified - third party accreditation
- Manufactured using a minimum 85% recycled polyethylene
- Range of available thickness



Installation

Visqueen DPM should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by a minimum of 150mm, bonded with VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape. The upstand should be secured with the supplied jubilee clip.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m





Installation

Visqueen High Performance Damp Proof Membrane should be loose laid on the substrate. The membrane should be clean and dry at the time of jointing. It should be overlapped by at least 150mm, bonded with VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape.

Airtight seals should be formed around all service entry points. Visqueen Preformed Top Hat Units should be used for sealing service entry pipes. The base of the top hat and the upstand should be bonded using VisqueenPro Double Sided Jointing Tape and sealed with VisqueenPro Single Sided Tape. The upstand should be secured with the supplied jubilee clip.

For full installation instructions, please see product Technical Datasheet



System components

- VisqueenPro Double Sided Jointing Tape, 50mm x 10m
- VisqueenPro Single Sided Tape, 75mm x 25m
- Visqueen NF-150 Lap Tape, 150mm x 10m
- Visqueen Top Hat Units
- Visqueen Preformed Units
- VisqueenPro Detailing Strip, 300mm x 10m, 500mm x 10m
- Visqueen TreadGUARD 300, 2m x 75m
- Visqueen TreadGUARD 1500, 1m x 2m

Product description

Visqueen High Performance Damp Proof Membrane is a robust co-polymer thermoplastic membrane, 0.5mm thick, yellow in colour and supplied 4m x 12.5m in a center folded roll.

The membrane is manufactured from virgin polymer.

Usage

Visqueen High Performance Damp Proof Membrane is suitable for use in ground floor constructions, positioned above or below the structural floor, to protect buildings against moisture from the ground.

The product is not intended for use where there is a risk of hydrostatic pressure.

Features and benefits

- BBA certified - third party accreditation
- Supplied centre folded - reduces the risk of cracks in screed and limits creases
- Dual jointing methods - depending on specification, lap joints can be taped or heat welded

Notes

Temporary Protection



Temporary Protection Sheeting

Product description

Visqueen Clear Temporary Protective Sheeting (TPS) is a clear polyethylene sheeting which provides high visual clarity. It is supplied on a core in rolls of 4m x 25m and 4m x 50m. The product is 20 microns thick.

Usage

Visqueen Clear Temporary Protective Sheeting is a polyethylene sheet (TPS) suitable for screening, wrapping large objects and other site construction materials such as bricks, blocks, timber and plasterboards. It's ideal for when the protected product needs to remain visible beneath the sheeting. It can be used in various other applications whilst buildings undergo refurbishment work, or in new build construction projects whilst also providing protection from showers and dust.

Features and benefits

- Provides high visual clarity
- Large roll format - Ideal for draping, screening, covering or hanging
- Provides protection against showers and dust
- Provides protection for various light duty applications whilst buildings undergo refurbishment or in new build projects



Installation

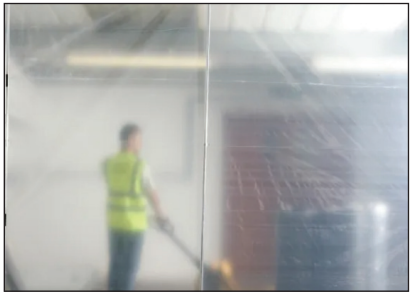
Unroll Visqueen Clear Temporary Protective Sheeting and cut to fit the area that needs protecting.

For large covered areas it may be necessary to lap adjacent (TPS) film sheets and a taped joint is recommended to ensure continuity of protection. When taping, allow an overlap of at least 50mm and secure the joint using VisqueenPro Single Sided Tape. Prior to taping ensure that the lap area is clean and free from dust and any moisture.

For full installation instructions, please see product Technical Datasheet

System components

- VisqueenPro Single Sided Tape, 75mm x 25m





Installation

Unroll Visqueen Temporary Protective Sheeting (TPS) and cut to fit the area that needs protecting.

For large covered areas it may be necessary to lap adjacent film sheets and a taped joint is recommended to ensure continuity of protection. When taping, allow an overlap of at least 50mm and secure the joint using VisqueenPro Single Sided Tape. Prior to taping ensure that the lap area is clean and free from dust and any moisture.

For full installation instructions, please see product Technical Datasheet



System components

- VisqueenPro Single Sided Tape, 75mm x 25m

Product description

Visqueen Temporary Protective Sheeting (TPS) is a range of semi-transparent sheeting products manufactured from recycled polyethylene. The range includes:

- Visqueen General Purpose TPS, 4m x 25m
- Visqueen Heavy Duty TPS, 4m x 25m
- Visqueen Extra Heavy Duty TPS, 4m x 25m

Details of other TPS roll sizes and colours are available on request.

Usage

Visqueen Temporary Protective Sheeting (TPS) are temporary coverings used to protect horizontal and vertical surfaces, and fixtures and fittings from the effects of dust, dirt, showers or spillages. Easy to cut and form into shape, TPS is suitable for screening, wrapping large objects and covering site construction materials such as bricks, blocks, timber and plasterboard.

TPS can be used in various other temporary applications whilst buildings undergo refurbishment work or during new build construction projects.

Features and benefits

- Suitable for internal and external temporary protection applications
- Large roll format - covers large areas fast
- Suitable for draping, screening, covering or hanging
- Provides protection against showers and dust

Temporary Protection Sheeting

Product description

Visqueen Flame Retardant Polythene Protection is manufactured using virgin polymers with specific additives to ensure the product is flame retardant to LPS1207 - Loss Prevention Standard cert no. 1792a/02.

The sheeting is supplied as centre folded rolls on a supporting core. Standard roll sizes are:

- 4m x 25m x 250 micron (Orange)
- 4m x 50m x 65 micron (White)

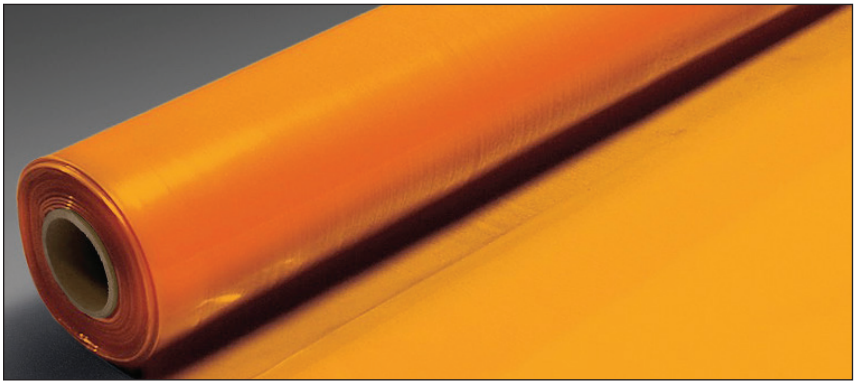
Usage

Visqueen Flame Retardant Polythene Protection can be used for screening off individual areas, draping and for a variety of surfaces. The product can be easily cut and re-sized for pallet hood / cover protection.

Flame retardant sheeting can be also used in various other applications whilst buildings undergo refurbishment work or in new build construction projects whilst also providing protection from dust and the risks of electrical hazards.

Features and benefits

- LPS1207 cert.no 1792a/01 - 3rd party flame retardant certification for Temporary Protection materials
- Large roll format - Ideal for draping, screening, covering or hanging. Quick and easy installation.
- Flame retardant - helps reduce the risk of losses from fires on construction sites
- 0.25mm (1000 gauge) thick - Approved for asbestos removal or wrapping film



Installation

Unroll Visqueen Flame Retardant Polythene Protection and cut to fit the area that needs protecting. For large covered areas it may be necessary to lap adjacent film sheets and a taped joint is recommended to ensure continuity of protection. When taping, allow an overlap of at least 50mm and secure the joint using Visqueen FR Single Sided Tape. Prior to taping ensure that the lap area is clean and free from dust and any moisture.

For full installation instructions, please see product Technical Datasheet

System components

- Visqueen FR Single Sided Tape, 50mm x 50m



VISQUEEN

Complete Range
Complete Solution





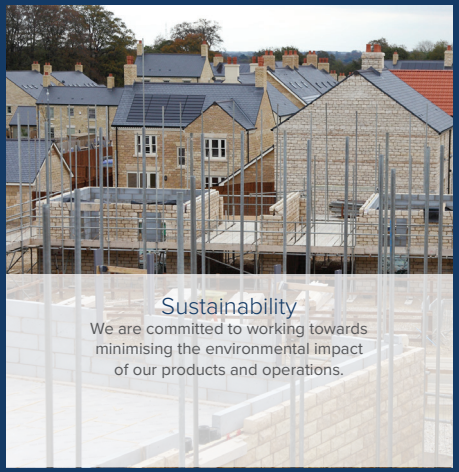












Sustainability

We are committed to working towards minimising the environmental impact of our products and operations.





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