Visqueen Zedex High Performance DPC is thinner than traditional damp proof courses without compromising performance. This helps reduce material usage, manufacturing energy and lowers transportation miles.
EXCELLENT PERFORMANCE UNDER HIGH COMPRESSIVE LOADS.

OUTPERFORMS ALLOTHERVERIGHPERFORMANCE FLEXIBLE DPC AND CAVITY TRAY SYSTEMS.

CONTAINSONOHAZARDOUS PITCH OR PVC PLASTICIZERS MAKING ITSAFEANDCLEANTOHANDLE.

SYSTEM COMPONENTS FORALL APPLICATIONSINCLUDINGSTANDARD AND BESPOKE PREFORMED
CAVITY TRAY (CLOAK) UNITS.

LOW PERMEABILITYTORADON AND CARBONDIOXIDE GAS.
TESTED AND COMPARED
To prove and verify its high performance status Visqueen Zedex CPT DPC has undergone a range of independent tests, covering all aspects of its performance. We have used test methods from Britain, South Africa and the USA to prove that Visqueen Zedex CPT DPC is the best all round flexible high performance DPC. For example, Tensile Strength and Elongation assess the suitability of damp proof courses in withstanding the stresses and movement of buildings. Such performance is critical; even in a typical house there is, on average, a weight of over 3 tonnes per linear metre in the load bearing wall. A further test for durability is the ability of the material to perform throughout the lifetime of the building.

Visqueen Building Products, in addition to the normal heat ageing tests, has assessed the Tensile Strength and Elongation of Visqueen Zedex CPT DPC by using an American test method for Accelerated Weathering (ASTM G53).

TECHNICAL DETAILS

## COMPARATIVE PERFORMANCE

<table>
<thead>
<tr>
<th>Test</th>
<th>Product A Leading Pitch Polymer DPC</th>
<th>Product B Polymeric DPC</th>
<th>Visqueen Zedex Co-Polymer Thermoplastic DPC</th>
<th>Product C Bitumen Polymer DPC</th>
<th>Best Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength BS 2782 : 320A : 1986 N/mm²</td>
<td>9.1</td>
<td>12.9</td>
<td>20.5</td>
<td>515†</td>
<td>Visqueen Zedex</td>
</tr>
<tr>
<td>Elongation at Break BS 2782 : 320A : 1986 %</td>
<td>200%†</td>
<td>415%†</td>
<td>539%</td>
<td>510%‡</td>
<td>Visqueen Zedex</td>
</tr>
<tr>
<td>Tear Strength BS 2782 : 360B : 1991</td>
<td>27.8</td>
<td>122.0</td>
<td>175.0</td>
<td>64.0†</td>
<td>Visqueen Zedex</td>
</tr>
<tr>
<td>Accelerated Weathering Test (ASTM G53 - 1984) Tensile Strength (BS 2782 : 320A : 1986) N/mm²</td>
<td>8.5†</td>
<td>12.9†</td>
<td>18.9†</td>
<td>N/A</td>
<td>Visqueen Zedex</td>
</tr>
<tr>
<td>Accelerated Weathering Test (ASTM G53 - 1984) % Elongation at Break (BS 2782 : 320A : 1986)</td>
<td>60%†</td>
<td>415%†</td>
<td>462%</td>
<td>N/A</td>
<td>Visqueen Zedex</td>
</tr>
<tr>
<td>Water Vapour Permeability BS 3177 : 1959 (25°C / 75%RH) g/m²/day</td>
<td>2.0†</td>
<td>0.28</td>
<td>0.21*</td>
<td>0.5*</td>
<td>Visqueen Zedex</td>
</tr>
</tbody>
</table>

† Manufacturer’s published information    ‡ University of London    * BBA

Tensile Strength, Elongation and Tear Strength tests were conducted along the longitudinal direction of the material.
INSTALLATION STEPS

— Visqueen Zedex CPT DPC must extend through the full thickness of the wall, including pointing, applied rendering or other facing materials.

— Visqueen Zedex CPT DPC must be laid on an even bed of wet mortar, and perforations in adjacent courses of brickwork must be completely filled with mortar.

— Visqueen Zedex CPT DPC must not be damaged by cavity cleaning after installation.

— Further information is available from BBA Certificate (94/3059), available from our website visqueenbuilding.co.uk

JOINTING

All DPC laps must be a minimum of 100mm and bonded together with Visqueen Zedex DPC Jointing Tape.

All cavity tray laps to Preformed Cavity Tray (Cloak) Units must be a minimum of 100mm and bonded using Visqueen Zedex DPC Jointing Tape. Visqueen Zedex DPC Joint Support Boards are also available to support the formation and long term integrity of these joints.

SURFACE FIXING

Visqueen Zedex DPC Fixing Strip should be used when the construction programme or the design require the DPC to be post or surface fixed to the cavity face of the inner leaf. The surface should first be primed, the DPC then bonded to the inner leaf using Visqueen Zedex DPC Jointing Tape and finally permanently secured using Visqueen Zedex DPC Fixing Pins at 150mm intervals.
TECHNICAL DATA

Tensile Strength 20.5 N/mm²
Elongation at Break 539%
Tear Strength 175.0 N/mm²
Water Vapour Permeability 0.21 g/m²/day
Radon Permeability (k) 17x10⁻¹² m²/s
Radon Transmittance (P) 22x10⁻⁹ m²/s
Gas (CO₂) Permeability Test in accordance with ISO 2782: 1995
Permeability Value 1.58x10⁻¹⁶ m²/sec/Pa

ROLL DIMENSIONS

Nominal Thickness 0.8mm
Nominal Weight 0.75 kg/m²
Roll Length 20m
Available Widths 100mm to 1400mm

STANDARD SURFACE FIXING DETAIL — MASONRY (SF-01)

KEY:
1) VISQUEEN ZEDEX HIGH PERFORMANCE DPC (PREFORMED CAVITY TRAYS TO SUIT).
2) VISQUEEN ZEDEX DPC FIXING STRIP AND ZEDEX FIXING PINS FOR MASONRY.
3) VISQUEEN ZEDEX DPC JOINTING TAPE ON PRIMED, FLUSH INNER SKIN.
4) WEEPHOLES AT 900MM CENTRES (MIN 2NO. PER OPENING).
5) VISQUEEN HP TANKING PRIMER.
DESCRIPTION
Visqueen Zedex High Bond DPC is a high performance heavy duty DPC suitable for general cavity tray applications including parapet walls, beneath copings and cappings, in gas resistant DPC applications and complex detailing work at ground level. Visqueen Zedex High Bond DPC can be torch bonded to masonry units and all laps are homogenously sealed during the torch bonding process.

TYPICAL PROPERTIES
Visqueen Zedex High Bond DPC is manufactured from a seamless roll of aluminium, bonded to a tough polyester carrier and coated with SBS modified bitumen, which is then finished with silica sand.

— Compatibility – Visqueen Zedex High Bond DPC is compatible with all materials used within normal construction, with the exception of timber preservatives based on creosotes or tar oils, however, it is unaffected by water based or salt solution timber preservatives.

— Durability – When correctly specified, detailed and installed, Visqueen Zedex High Bond will last the lifetime of the building provided it is not damaged by subsequent building operations.

— Compressive Strength – Visqueen Zedex High Bond DPC is capable of withstanding the loading applied by brickwork, blockwork, or stonework walls up to three storeys.

APPLICATIONS
Visqueen Zedex High Bond DPC can be used horizontally at door and window jambs, over lintels, vertically bonded to the cavity face of the inner leaf to facilitate requirements for level access and wherever a flexible and adaptable gas or damp proof course and cavity tray system is required.

TYPICAL USES:
— Wet bedded coping stone and parapet wall applications where a low imposed load occurs but a high mortar bond is required. Reduces likelihood of slippage due to wind loading.

— Hot bonded detail work at complex cavity tray detailing. The Visqueen Zedex High Bond DPC can be torch bonded together and heat sealed to primed concrete or steel columns using a gas torch.

— Torch bonded to primed reinforced concrete slabs and primed down-turn concrete beams.

— Torch bonded to primed steel lintels reducing the risk of the DPC slipping forward during application of Pistol bricks.

— Ground level tanking applications when used in conjunction with Visqueen TorchOn Tanking Membrane.

— Speeds up procurement times as Preformed Cloak Units are not required. Visqueen Zedex High Bond cloaks can be made on site as laps are all homogenously sealed.
Installation must follow normal good practice as per BS 5628 3:2005 and must be in accordance with BS 8215 revised edition.

— Visqueen Zedex High Bond DPC must extend through the full thickness of the wall leaf, including pointing, applied rendering or other materials.
— It is to be laid on a wet, even bed of mortar and perforations in adjacent courses of block work must be completely filled with mortar.
— All lap joints in Visqueen Zedex High Bond DPC must have a minimum 100mm overlap.

Visqueen Zedex High Bond DPC site formed cloaks must be used at stop ends and all corners or changes in level of cavity trays must not be damaged by cavity cleaning after installation.

— A sharp knife is necessary to cut the material.
— Work can be carried out under all weather conditions normal to the construction of the wall and Visqueen Zedex High Bond DPC maintains sufficient flexibility to be installed at low temperatures.

Full technical datasheets, including hot bonding installation, are available from our website www.visqueenbuilding.co.uk/dpc
**INTRODUCTION**

British Standard 5628: Part 3 code of practice for the use of masonry (materials and components, design and workmanship) offers guidance and recommendations on the damp proofing of structures. It recognises that the penetration of water into the fabric of a building has serious consequences for the health of the occupants and for the long term serviceability of the structure.

The numerous bridges of the cavity wall commonly require damp proofing protection in the form of a cavity tray and where a flexible damp proof course material is used, the British Standard recognises that many common details cannot be satisfactorily formed on site and that preformed units should be specified for these complex junctions.

**DESCRIPTION**

An integral part of the Visqueen Zedex Damp Proofing System is the range of Visqueen Preformed Cavity Tray Units. The units simplify cavity tray detailing at columns, corners, windposts, change of levels, etc, and so greatly reduce the time required on site to install a cavity tray at these complex junctions. Visqueen Preformed Cavity Tray Units are factory manufactured from specially formulated, tough, co-polymer material, which is sufficiently flexible to accommodate normal construction tolerances. The units can be produced for any width of cavity and in formats suitable to be either built-in or surface fixed to the inner leaf.

**APPLICATION**

Visqueen Preformed Cavity Tray Units are generally installed prior to the main run of Visqueen Zedex DPC Cavity Tray. The Visqueen Zedex DPC Cavity Tray should overlap the Preformed Unit by minimum 100mm, the lap being bonded with Visqueen Zedex DPC Jointing Tape.

When surface fixing, the Preformed Unit should be bonded and then mechanically fixed to the inner leaf using the same taping/fixing system as the Visqueen Zedex DPC Cavity Tray.

In accordance with industry recommendations and guidance, Visqueen Zedex DPC Joint Support Boards should be positioned beneath unsupported laps in order to provide support for the initial formation of the bonded lap and its long term integrity.

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**FIXING PINS FOR MASONRY (SF-01)**

KEY: 1) Visqueen Zedex CPT DPC (preformed cloaks to suit). 2) Visqueen Fixing Strip (25x2mm, pre-drilled with 8mm Ø holes). 3) Visqueen Zedex 100mm Jointing Tape on primed, flush inner skin. 4) Weepholes at 900mm centres (min 2no. per opening). 5) Visqueen HP Tanking Primer.

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**FIXING PINS FOR INSULATION (SF-02)**

KEY: 1) Visqueen Zedex CPT DPC (preformed cloaks to suit). 2) Visqueen Fixing Strip (25x2mm, pre-drilled with 8mm Ø holes) Visqueen Fixing Pins at 150mm centres. 3) Visqueen Zedex 100mm Jointing Tape. 4) Weepholes at 900mm centres (min 2 no. per opening). 5) Metal frame construction by specialist. 6) Rigid insulation board. 7) Visqueen No.2 Fixings.
**DESIGN SUPPORT**

Visqueen Technical Support Managers have specialist knowledge and experience in designing and producing isometric drawings of the complex shapes required to allow continuity of cavity trays in buildings. The incorporation of these units into the cavity tray system ensures that common leakage paths are sealed, thereby eliminating both potential damp problems and the resulting costly remedial works on site.

The design support service is available free of charge to both specifiers and end-users.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Preformed Unit</th>
<th>Built-in</th>
<th>Surface fixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lintel stop end</td>
<td>PFU-100</td>
<td>PFU-100</td>
</tr>
<tr>
<td>Stop end</td>
<td>PFU-101</td>
<td>PFU-102</td>
</tr>
<tr>
<td>Jambs</td>
<td>PFU-104</td>
<td>PFU-104</td>
</tr>
<tr>
<td>Change of level</td>
<td>PFU-107</td>
<td>PFU-108</td>
</tr>
<tr>
<td>Internal/external corner</td>
<td>PFU-109</td>
<td>PFU-110</td>
</tr>
<tr>
<td>Windpost</td>
<td>PFU-125</td>
<td>PFU-125</td>
</tr>
<tr>
<td>Column</td>
<td>PFU-128</td>
<td>PFU-130</td>
</tr>
<tr>
<td>External corner column</td>
<td>PFU-129</td>
<td>PFU-131</td>
</tr>
<tr>
<td>Arched window</td>
<td>PFU-145</td>
<td>PFU-145</td>
</tr>
</tbody>
</table>

**SURFACE FIXED & BUILT-IN APPLICATIONS**

**IMPORTANT**

During installation DPC must overlap Preformed Unit by 100mm and be fully sealed with Visqueen Zedex DPC Jointing Tape.
DESCRIPTION

Visqueen Zedex Housing Grade DPC is based on the same polymer technology as Visqueen Zedex CPT DPC. It is designed to provide housebuilders with a robust, higher performing and cost effective alternative to traditional British Standard DPCs.

Visqueen Zedex Housing Grade DPC is strong and flexible remaining workable throughout the seasons. It can be used with a wide range of products such as silicon mastics without causing discolouration, and bituminous liquid DPMs. Such compatibility is essential to ensure a continuous waterproof barrier for the lifetime of the building.

APPLICATION

Visqueen Zedex Housing Grade DPC is suitable for use as a DPC in domestic and residential construction in vertical, stepped and horizontal applications. The DPC may be used in conjunction with beam and block flooring and if used as a cavity tray, the DPC should be fully supported along its length i.e. supported by the lintel. For other applications use Visqueen Zedex CPT DPC. Installed in accordance with our instructions, Visqueen Zedex Housing Grade DPC provides an effective barrier against the passage of moisture.

STANDARD DETAIL - TYPICAL GROUND BEARING SLAB EDGE DETAIL (SW-30)

KEY:
1) Visqueen Housing Grade DPC.
2) Visqueen Ecomembrane 500µm.
3) Visqueen Lap Tape.
4) Visqueen Jointing Tape (50mm x 10m)
5) Smooth Sand Blinding Layer.

All laps must be fully sealed.

Co-polymer thermoplastic is now widely recognised for its ease of use on site, due to its flexibility even in cold weather conditions.

**INSTALLATION STEPS**

— The DPC must extend through the full thickness of the wall, including pointing, applied rendering or other facing materials.
— The DPC must be laid on an even bed of wet mortar, and perforations in adjacent courses of brickwork must be completely filled with mortar.
— The DPC must not be damaged by cavity cleaning after installation.
— All laps in the DPC must be a minimum of 100mm and sealed using Visqueen Zedex DPC Jointing Tape. For further information refer to the BBA Certificate (94/3059).

**STORAGE AND HANDLING**

The materials used in Visqueen Zedex Housing Grade DPC are chemically stable and inert and are free of both solvents and aggressive chemicals. The DPC is also clean and safe to use and contains no volatiles to 'leach' out. Due to its robust nature, the DPC requires no special conditions for storage, transport, handling, usage and recycling.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength BS 2782:320A</td>
<td>20.4 N/mm²</td>
</tr>
<tr>
<td>Elongation at Break BS 2782:320A</td>
<td>515%</td>
</tr>
<tr>
<td>Tear Strength BS 2782 360B</td>
<td>135N/mm²</td>
</tr>
<tr>
<td>Water Vapour Permeability BS 3177 250°C/75% RH</td>
<td>0.3g/m²/day</td>
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**ROLL DIMENSIONS**

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<tr>
<th>Dimension</th>
<th>Value</th>
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<tbody>
<tr>
<td>Nominal Thickness</td>
<td>600μm</td>
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<tr>
<td>Nominal Weight</td>
<td>0.6kg/m²</td>
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<tr>
<td>Roll Length</td>
<td>20m</td>
</tr>
<tr>
<td>Available Widths</td>
<td>100mm to 1400mm</td>
</tr>
</tbody>
</table>
DAMP PROOF COURSES
VISQUEEN POLYETHYLENE DPC

— CONFORMS TO THE REQUIREMENTS OF BS 6515.
— COST EFFECTIVE DAMP PROOF COURSE FOR DOMESTIC CONSTRUCTION.
— EMBOSSED TO ASSIST MORTAR ADHESION.
— PROVEN PERFORMANCE OVER MANY YEARS.
— MANUFACTURED FROM HIGHEST QUALITY REPROCESSED MATERIALS.
— SAFE AND CLEAN TO HANDLE.

DESCRIPTION
Visqueen Polyethylene DPC is designed to prevent the passage of moisture in brick and block work from external sources. Visqueen Polyethylene DPC is manufactured from high quality reprocessed materials to provide a cost effective and durable domestic grade DPC.

APPLICATION
Visqueen Polyethylene DPC is suitable for use in vertical and horizontal applications throughout two storey domestic constructions. Visqueen Polyethylene DPC is produced to stringent performance standards and includes a pronounced emboss to improve mortar adhesion. (Note: in minimal stress applications Visqueen Zedex High Bond DPC should be used.) Visqueen Polyethylene DPC has good cold weather flexibility properties, remaining workable at low temperatures. Visqueen Polyethylene DPC is manufactured to the requirements of BS 6515.

IMPORTANT
BS6515 states Polyethylene DPC is not suitable for water movement downwards eg. above lintels in cavity walls. Please use Visqueen Zedex CPT DPC or Visqueen High Bond DPC for this application.
**INSTALLATION**

Installation should be in accordance with Code of Practice CP102:1973 as amended. Normal good practice and damp proof course detailing should be followed as described in BS 5628: Part 3. Work may be carried out in all weathers normal to the construction of walls.

**JOINTING**
All laps and joints in discontinuous lengths of DPC should be fully lapped by at least 100mm and fully sealed using Visqueen Zedex DPC Jointing Tape.

**STORAGE AND HANDLING**
Visqueen Polyethylene DPC is classified non-hazardous, and is chemically inert. The product requires no special storage conditions, although measures should be made to keep it clean and dry.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Tensile Strength BS2782 (320A)</td>
<td>Long: 20.3N/mm² Trans: 11.2N/mm²</td>
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<tr>
<td>Elongation BS2782 (320A)</td>
<td>Long: 301% Trans: 274%</td>
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<tr>
<td>Tear Strength MOAT 27:5:4.1</td>
<td>Long: 169N Trans: 145N</td>
</tr>
<tr>
<td>Water Vapour Permeability</td>
<td>0.28g/m²/day</td>
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**DIMENSIONAL DETAILS**

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<th>Dimension</th>
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<tbody>
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<td>Length (m)</td>
<td>30</td>
</tr>
<tr>
<td>Available Widths</td>
<td>100mm – 1200mm</td>
</tr>
</tbody>
</table>
**DESCRIPTION**
Visqueen GX DPC is a blend of ethylene co-polymers suitable for use on brownfield sites that require protection from dangerous contaminants such as hydrocarbons and methane, together with excellent damp proofing properties. GX DPC is available in 30m lengths and in two widths, 645mm or 970mm.

**APPLICATION**
Visqueen GX DPC has a proven track record as a barrier membrane on gas contaminated and hydrocarbon contaminated brownfield sites. Visqueen GX DPC combines high strength with flexibility.

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**INSTALLATION**
All joints in lengths of DPC must be a minimum of 100mm lapped and sealed with Visqueen GX Jointing Tape. Visqueen GX DPC should be installed in accordance with BS 8215: 1991, BS 8000: Part 3, 2001 and BS 5628: Part 3: 2005. Visqueen GX DPC must be bedded on both sides with fresh mortar and must project through the full width of the wall, including any externally applied rendering and project 5mm beyond the finished external face.

**STORAGE AND HANDLING**
Visqueen GX DPC is classified as non-hazardous when used in accordance with the relevant British Standards. The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tr>
<td>Thickness (ASTM D5199)</td>
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</tr>
<tr>
<td>Density (ASTM D792)</td>
<td>&gt;1000 kg/m³</td>
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<tr>
<td>Puncture Resistance (FTMS 101C Method 2031)</td>
<td>1340N</td>
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<tr>
<td>Tear Resistance (ASTM D751 Method B)</td>
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<tr>
<td>Break Strength/Reinforcement (ASTM D751 Method A)</td>
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<tr>
<td>Low Temperature Flexibility (ASTM D2136)</td>
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<tr>
<td>Hydrostatic Resistance (ASTM D751 Method A)</td>
<td>Pass</td>
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<tr>
<td>Water Absorption (ASTM D471)</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>
**DESCRIPTION**
Visqueen Gas Resistant (GR) Damp Proof Course is a flexible polyethylene DPC with an aluminium foil designed to prevent the transmission of carbon dioxide, radon, methane and low level hydrocarbon vapours. This is in addition to the product’s usage as a damp proof course. Resistance to harmful gases is achieved by an integral aluminium film.

**APPLICATION**
Visqueen Gas Resistant (GR) DPC should be used on any site where carbon dioxide, radon, methane or low level hydrocarbon vapours are a problem. Methane can occur on any construction on any site previously used for landfill. Such conditions can exist on household, commercial and industrial sites. Visqueen Gas Resistant (GR) DPC has excellent physical characteristics and good cold flexibility performance. It is suitable for vertical, horizontal, stepped and cavity tray applications.

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**GOOD PRACTICE TIP**
To avoid slip or shear planes it is not recommended to take membranes through the wall. In order to provide a continuous barrier across the cavity Visqueen Gas Resistant DPC should be sealed to the membrane, taken through the blockwork, up the wall and incorporated below the damp proof course on the cavity tray outer leaf.

**INSTALLATION**
Visqueen Gas Resistant (GR) DPC should be installed in accordance with BS 8215:1991, BS 8000: Part 3, 2001 and BS 5628: Part 3, 2005. All horizontal DPCs must be bedded on both sides with fresh mortar. All DPCs must project through the full width of the wall, including any externally applied rendering and project 5mm beyond the finished external face. All cavities must be kept clear of mortar droppings and other debris. Any mortar droppings reaching the DPCs must be removed before they harden, avoiding the use of sharp objects for removal. Reference should also be made to NHBC guidance notes and BRE Report BR211.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>DIMENSIONAL DETAILS</th>
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<tbody>
<tr>
<td>Roll Length</td>
<td>30m</td>
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<tr>
<td>Available Widths</td>
<td>500mm - 1000mm</td>
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<tr>
<td>Weight</td>
<td>0.5kg/m²</td>
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<tr>
<td>Thickness</td>
<td>0.5mm</td>
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</table>

<table>
<thead>
<tr>
<th>PHYSICAL CHARACTERISTICS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Tensile Strength (BS2782:320A) Transverse</td>
<td>17.4N/mm²</td>
</tr>
<tr>
<td>Longitudinal</td>
<td>19.0N/mm²</td>
</tr>
<tr>
<td>Elongation at Break% (BS2782:320A) Longitudinal</td>
<td>262%</td>
</tr>
<tr>
<td>Elongation at Break % Foil</td>
<td>58.4%</td>
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<tr>
<td>Methane Gas Resistance ml/m²/24hr</td>
<td>&lt;0.01 ml/m²/d</td>
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</table>

**STORAGE AND HANDLING**
Visqueen Gas Resistant (GR) DPC is classified as non-hazardous when used in accordance with the relevant British Standards. The product is chemically inert and is not affected by acids and alkalis that may be present in the sub-soils.