



CPT High Performance Damp Proof System



A Breakthrough in High Performance Damp Proofing

New generation Zedex CPT High Performance DPC outperforms all other high performance flexible DPCs. It is the new generation of damp proof course, designed to provide a new higher level of security and durability. Made from Co-Polymer Thermoplastic CPT using the latest polymer technology, it possesses the characteristics we believe are necessary in a DPC for it to perform effectively under harsh conditions. It has also been accredited by the British Board of Agrément (94/3059).

As a result of extensive research and development and a rigorous independent testing programme, Zedex CPT High Performance DPC has made a number of significant advances.

Zedex is Robust

High tear and puncture resistance characteristics help avoid the failures caused by damage during installation, such as clearing mortar droppings out of the cavity, general manhandling on site and during transport. Independent testing shows the tear strength of Zedex CPT High Performance DPC to be many times that of pitch polymer DPCs.

Zedex is Strong and Flexible

Not only does Zedex CPT High Performance DPC have almost twice the tensile strength of other pitch polymer damp proof courses, it is also able to withstand twice the amount of stretching. In fact Zedex CPT High Performance DPC can be stretched by over 500% from its original dimension - a level of resilience which for example, allows Zedex to accommodate cracking in walls yet maintain the integrity of the waterproof seal.

Zedex is Easy to Install Correctly

Zedex CPT High Performance DPC has been specifically designed for ease of use on site and to reduce the risk of poor workmanship, which is generally recognised as one of the most common causes of failure in waterproofing systems.

Zedex CPT High Performance DPC is easy to join. It is also easy to trim, with its higher resistance to tear and lack of fibres allowing for clean and accurate detailing.

Zedex CPT High Performance DPC has excellent adhesion to mortar due to a unique surface finish. This assists with the correct positioning of the DPC during the building work.

Zedex Masonry Blend

Zedex is now available in a range of colours to match the outer skin. The most popular colours are white and sandstone. Our technical department will be happy to assist you with product specification.

Zedex is Safe and Clean to Handle

The materials used in Zedex CPT High Performance DPC are chemically stable and inert and are free of both solvents and aggressive chemicals. Zedex CPT High Performance DPC is also clean and safe to use, requiring no special conditions for storage, transport, handling, usage and disposal.

Zedex is Compatible

Zedex CPT High Performance DPC avoids the risks of any incompatibility between coal based pitch and oil based bitumen waterproofing materials. It can be used with bituminous liquid DPMs and mastics. Such compatibility is essential in securing a continuous waterproof barrier in a building.

Zedex has High Water Vapour Resistance

The water impermeability of co-polymer thermoplastic material is superior to pitch polymer DPCs. Zedex CPT High Performance DPC being an homogeneous material and free of fibres, provides an effective damp proof and water vapour resistant seal.

Zedex Maintains Wall Strength Integrity

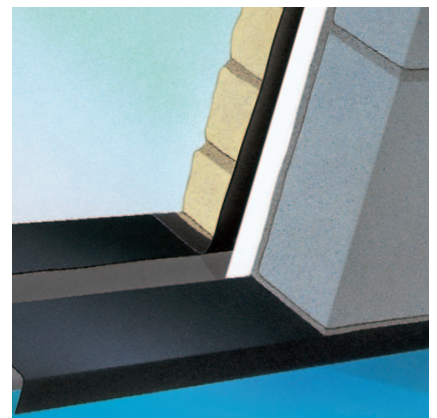
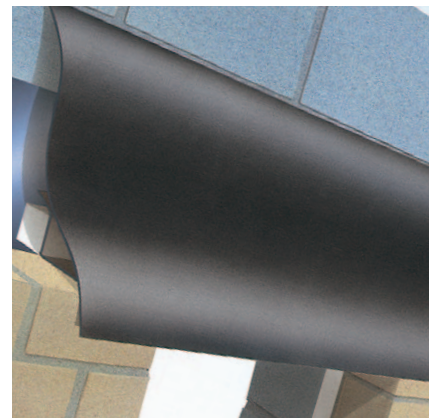
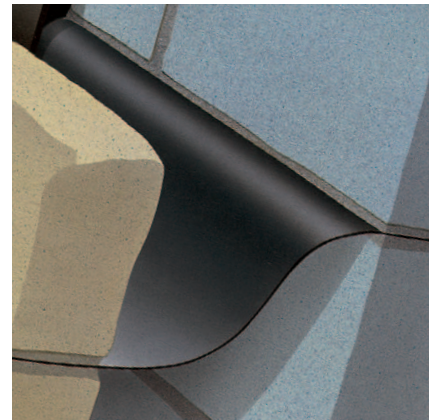
Visqueen Building Products commissioned Ceram Building Technology to test Zedex CPT High Performance DPC under BSI's DD86 Part 1 1983 for flexural bond strength and shear strength. These independent tests show that Zedex CPT High Performance DPC has excellent mortar adhesion characteristics. With DPCs being used extensively outside the original ground level applications, understanding the effect of a damp proof course on wall strength becomes more and more important.

Zedex has High Workability

Zedex CPT High Performance DPC has been specifically formulated to remain workable throughout the seasons and prevailing weather conditions.

Zedex Lasts

Zedex CPT High Performance DPC is untroubled by environmental conditions over time. Its anti-ageing and dimensional stability properties, as well as its resistance to rot, damage from damp conditions, mildew and UV light are such that Specifiers and Builders can rest assured that Zedex CPT High Performance DPC will continue to perform at a high level for the lifetime of the building.



A New Generation of Performance, Tested and Compared

To prove and verify its high performance status Zedex CPT High Performance DPC has undergone a battery of independent tests, covering all aspects of its performance.

We have used test methods from Britain, South Africa and the USA to prove that Zedex CPT High Performance 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 Zedex CPT High Performance DPC by using an American test method for Accelerated Weathering (ASTM G53).

| Test | Product A | Product B | ZEDEX | Product C | Product D | Best Performance |
|---|---------------------------|-------------------|------------------------------|-----------------|---------------------|------------------|
| | Leading Pitch Polymer DPC | Pitch Polymer DPC | Co-Polymer Thermoplastic DPC | EPDM Rubber DPC | Bitumen Polymer DPC | ZEDEX |
| Tensile Strength BS 2782 : 320A : 1986 N/mm ² | 9.1▼ | 8.6◆ | 20.5▼ | 8.4◆ | 5.5◆ | ZEDEX |
| Elongation at Break BS 2782 : 320A : 1986 % | 200%◆ | 260%◆ | 539%▼ | 140%◆ | 510%◆ | ZEDEX |
| Tear Strength BS 2782 : 360B : 1991 | 27.8▼ | 18.2▼ | 175.0▼ | 13.8▼ | 64.0◆ | ZEDEX |
| Accelerated Weathering Test (ASTM G53 - 1984) Tensile Strength (BS 2782 : 320A : 1986) N/mm ² | 8.5▼ | 10.9▼ | 18.9▼ | 6.9▼ | N/A | ZEDEX |
| Accelerated Weathering Test (ASTM G53 - 1984) % Elongation at Break (BS 2782 : 320A : 1986) | 60%▼ | 70%▼ | 462%▼ | 12%▼ | N/A | ZEDEX |
| Water Vapour Permeability BS 3177 : 1959 (25°C / 75%RH) g/m ² /day | 2.0◆ | 1.4◆ | 0.21* | 0.33◆ | 0.5◆ | ZEDEX |

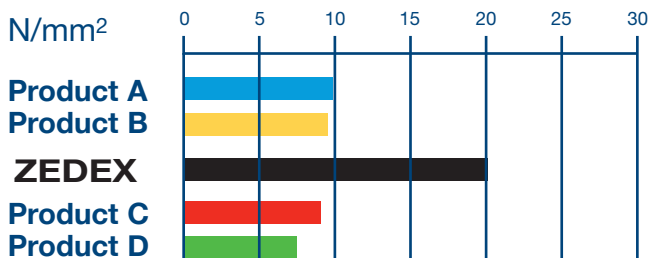
◆ Manufacturer's published information ▼ University of London * BBA

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

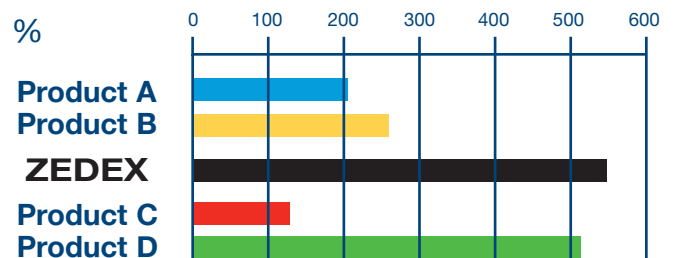
Comparative Performance

A breakthrough in withstanding building stresses and the construction process.

TENSILE STRENGTH

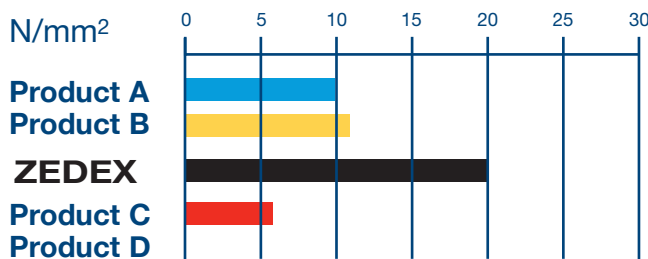


ELONGATION

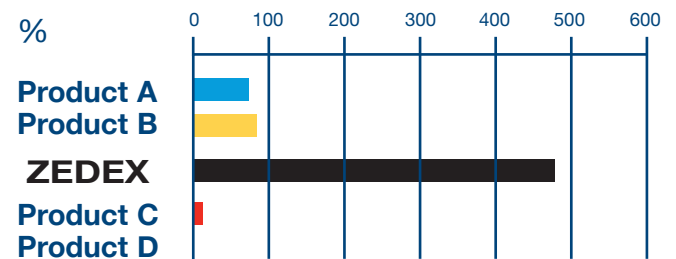


A material that retains its properties.

ACCELERATED WEATHERING TEST TENSILE STRENGTH

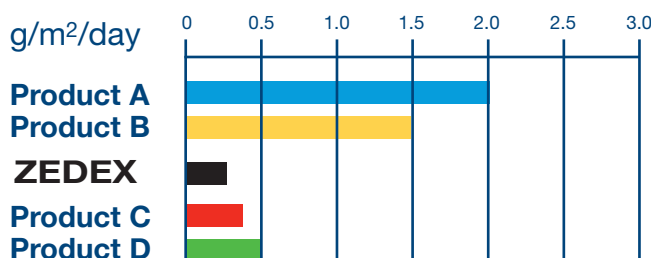


ACCELERATED WEATHERING TEST ELONGATION AT BREAK

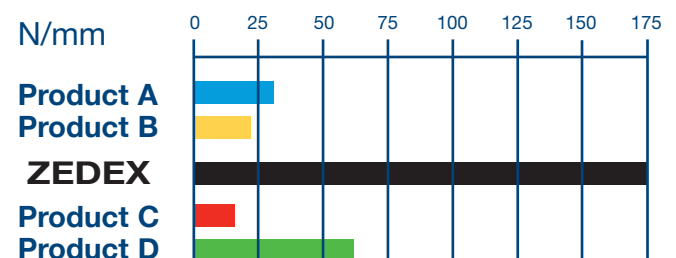


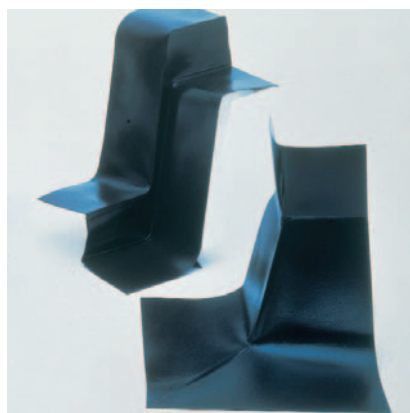
Damage resistant and better proof against the wet.

WATER VAPOUR PERMEABILITY ZEDEX



TEAR STRENGTH





Zedex CPT High Performance DPC - Technical Data

| | |
|----------------------------------|--|
| Tensile Strength | 20.5 N/mm ² |
| Elongation at Break | 539% |
| Tear Strength | 175.0 N/mm ² |
| Water Vapour Permeability | 0.21 g/m ² /day |
| Accelerated Weathering | |
| Tensile Strength | 18.9 N/mm ² |
| Elongation at Break | 462% |
| Colours | Black/White/Sandstone <small>Other colours available upon request</small> |
| Nominal Thickness | 0.8 mm |
| Nominal Weight | 0.75 kg/m ² |
| Roll Length | 20m |
| Roll Width | 100mm to 1500mm |

Technical Data and Installation

Applications

Zedex CPT High Performance DPC is suitable for use as a DPC in all types of building construction and can be used in vertical, horizontal, stepped and cavity tray applications. Zedex CPT High Performance DPC provides an effective barrier against the passage of moisture and forms an effective waterproof seal.

- Zedex CPT High Performance DPC must extend through the full thickness of the wall, including pointing, applied rendering or other facing materials.
- Zedex CPT High Performance DPC must be laid on a wet, even bed of mortar, and perforations in adjacent courses of brickwork must be completely filled with mortar.
- Zedex CPT High Performance DPC must not be damaged by cavity cleaning after installation.

Further information is available from BBA Certificate (94/3059), from the Zedex DPC Application Guide in the Black Book Technical Manual or from our web site www.visqueenbuilding.co.uk

Jointing

All joints in lengths of DPC must be a minimum of 100mm, lapped and bonded using Zedex DPC Jointing Tape. All joints between lengths of cavity tray and joints between linear cavity trays and pre-formed cavity tray units must be a minimum of 100mm, lapped and bonded using either Zedex DPC Joint Support or the integral joint support provided on pre-formed units.

Surface Fixing

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 Zedex Jointing Tape and finally permanently secured using the fixing strip secured at 150mm intervals.

Storage and Handling

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

Packaging and Sizes

Zedex CPT High Performance DPC is available in all standard widths up to 900mm. Roll lengths are 20m. Greater and non standard dimensions can be provided on request. Rolls are packed individually.

Availability

Zedex CPT High Performance DPC is available from selected Builders Merchants throughout the UK and through Visqueen Building Product's international network. Details of your nearest stockist can be obtained from the Zedex Help Line

Zedex Pre-Formed Cavity Tray Units

Zedex Pre-Formed Cavity Tray units are fabricated from Co-Polymer Thermoplastic (CPT). CPT is a new high strength, robust and durable material specially developed by Visqueen Building Products for Damp Proofing. Amongst the advantages that it offers to specifiers are:

Easy to Use

The characteristics of CPT material and the unique design of the units means that Zedex Pre-Formed Cavity Trays are more able to accommodate normal building tolerances.

Accomodate Variable Cavity Widths

Zedex Pre-Formed Cavity Tray units can be designed to suit variable cavity width.

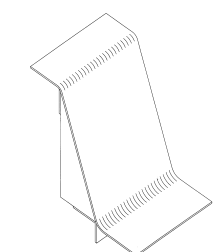
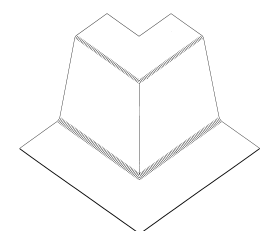
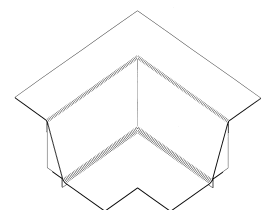
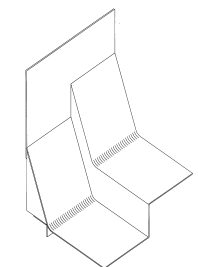
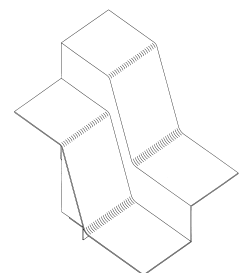
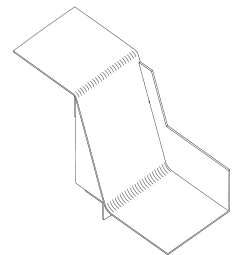
Support System Available

A special joint Support System is available to ensure integrity of joints at DPC laps.

Special Sizes Can be Designed and Manufactured

A comprehensive range of standard units is available from stock. Design and manufacture of special and unusual shapes is available.

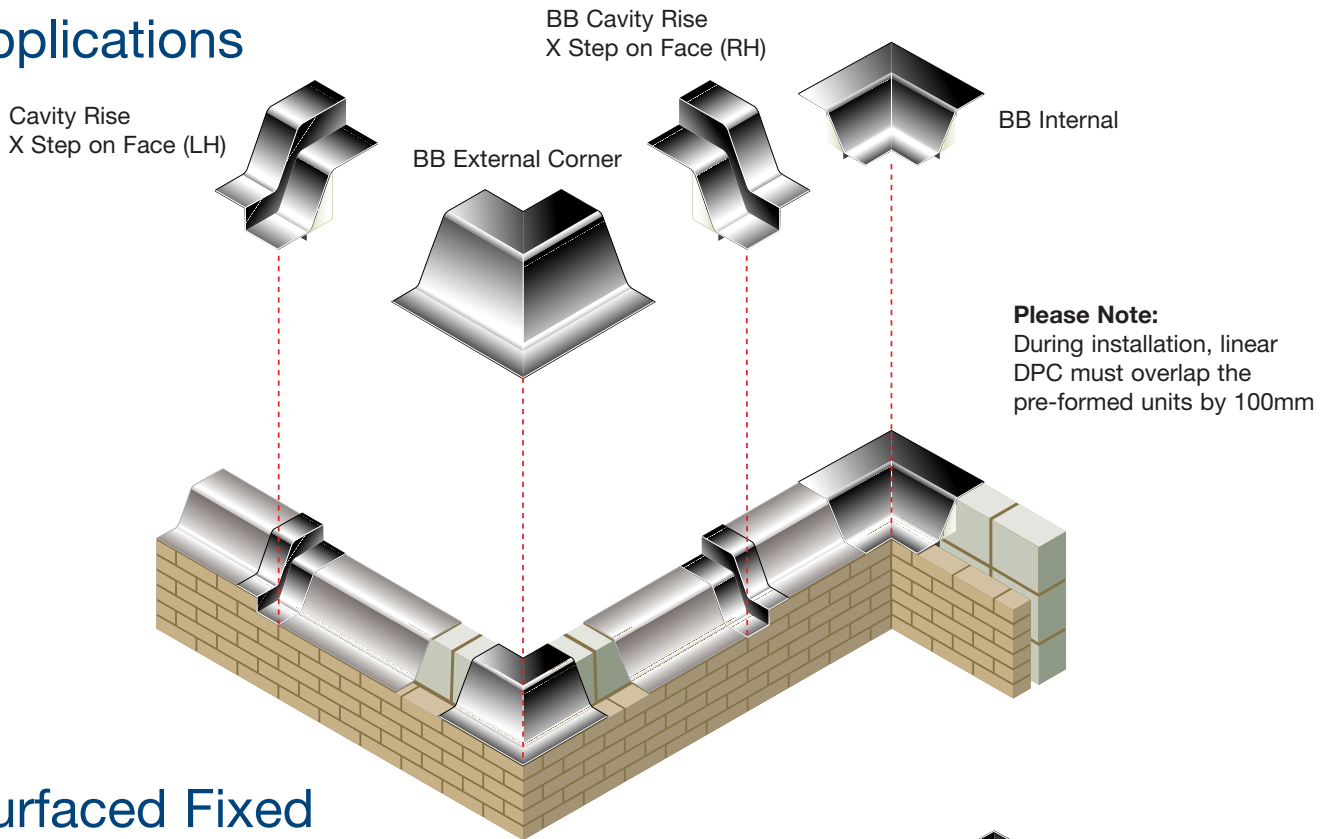
The following table is a guide to applications for Zedex Pre-Formed Cavity Tray units. Specials can be designed and manufactured on request.



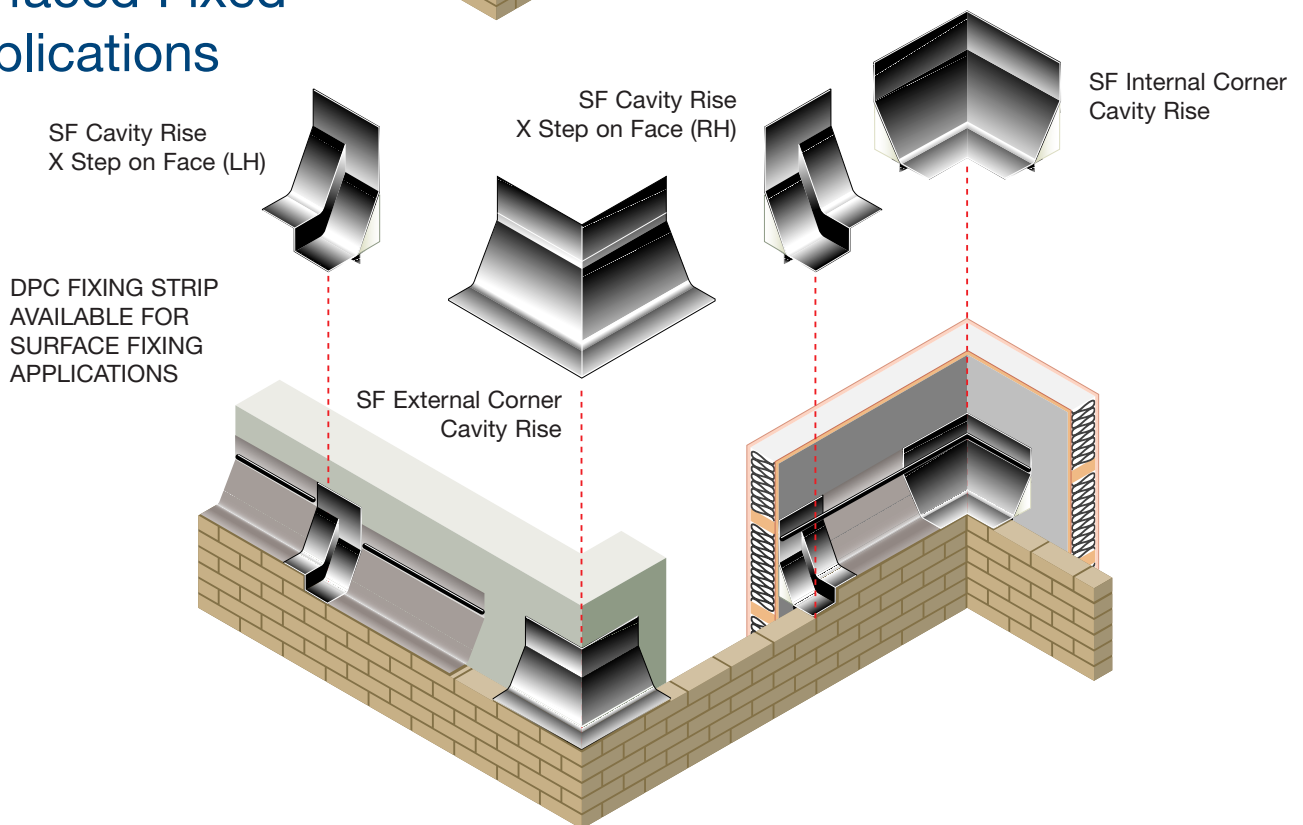
| Typical Applications - Zedex Pre-Formed Cavity Tray Units | |
|--|---|
| STOP ENDS STOP-END 150 CAVITY RISE (LH/RH) STOP-END 225 CAVITY RISE (LH/RH) | INTERNAL CORNER ANGLED STOP-END (LH & RH) |
| COLUMN STOP END COLUMN STOP-END 150 CAVITY RISE (LH/RH) COLUMN STOP-END 225 CAVITY RISE (LH/RH) | INTERNAL CORNER - BRICK TO BLOCK BB INTERNAL CORNER 150 CAVITY RISE BB INTERNAL CORNER 225 CAVITY RISE |
| CHANGE OF LEVEL - BRICK TO BLOCK 75mm Step on Face BB150 CAVITY RISE X 75 STEP ON FACE (LH) BB150 CAVITY RISE X 75 STEP ON FACE (RH) BB225 CAVITY RISE X 75 STEP ON FACE (LH) BB225 CAVITY RISE X 75 STEP ON FACE (RH) 225mm Step on Face BB150 CAVITY RISE X 225 STEP ON FACE (LH) BB150 CAVITY RISE X 225 STEP ON FACE (RH) BB225 CAVITY RISE X 225 STEP ON FACE (LH) BB225 CAVITY RISE X 225 STEP ON FACE (RH) | INTERNAL CORNER - SURFACE FIXED SF INTERNAL CORNER 150 CAVITY RISE |
| | EXTERNAL CORNER EXTERNAL CORNER SQUARE |
| | EXTERNAL CORNER - BRICK TO BLOCK BB EXTERNAL CORNER 150 CAVITY RISE BB EXTERNAL CORNER 225 CAVITY RISE |
| CHANGE OF LEVEL - SURFACE FIXED 75mm Step on Face SF150 CAVITY RISE X 75 STEP ON FACE (LH) SF150 CAVITY RISE X 75 STEP ON FACE (RH) 225mm Step on Face SF150 CAVITY RISE X 225 STEP ON FACE (LH) SF150 CAVITY RISE X 225 STEP ON FACE (RH) | EXTERNAL CORNER - SURFACE FIXED SF EXTERNAL CORNER 150 CAVITY RISE |
| | JOINT SUPPORT SYSTEM JOINT SUPPORT 150 CAVITY RISE JOINT SUPPORT 225 CAVITY RISE |

Guide to Typical Applications Corners and Change of Levels

Brick to Brick Applications

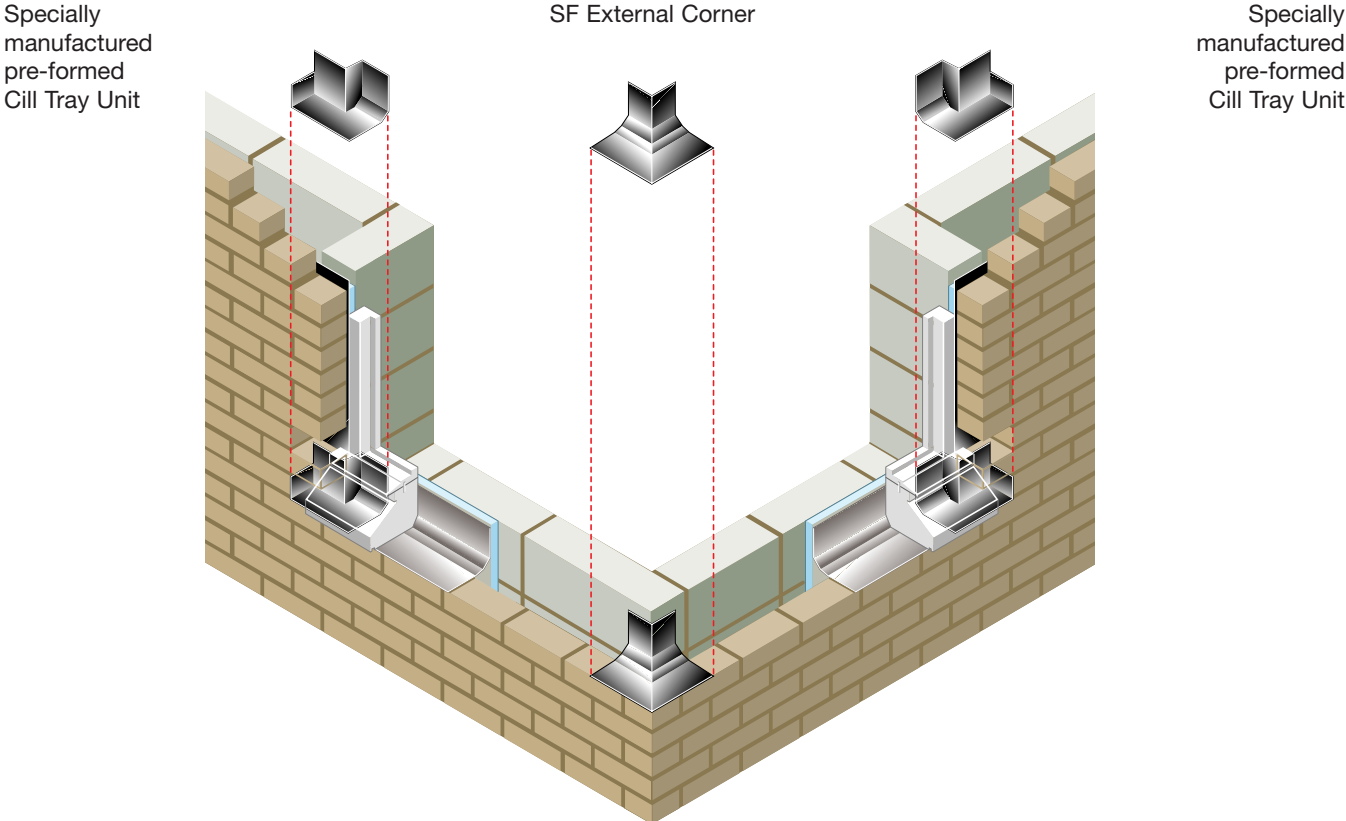
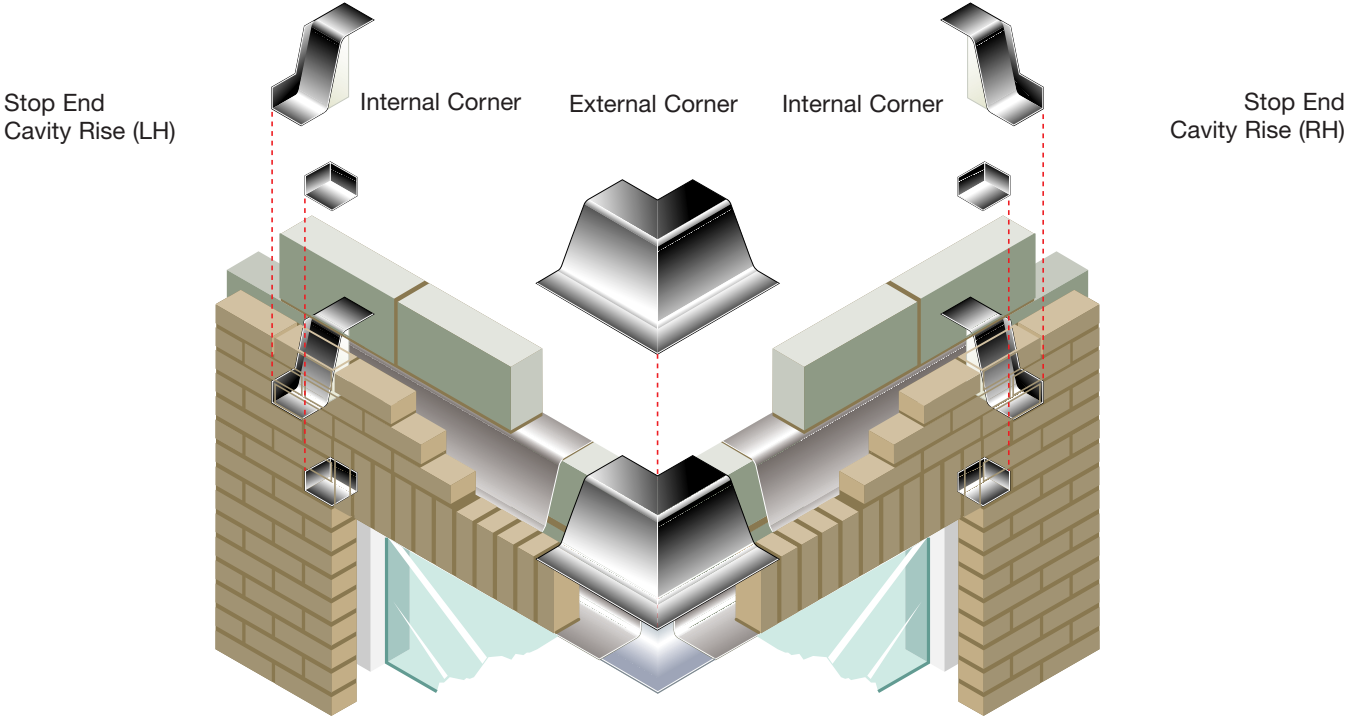


Surfaced Fixed Applications



Windows and Doors

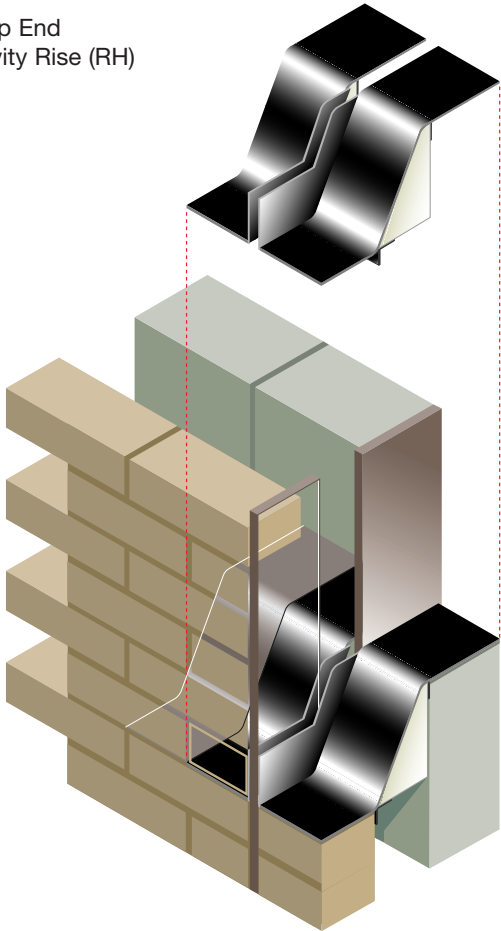
Please Note:
During installation, linear DPC must overlap the pre-formed units by 100mm



Expansion Joint

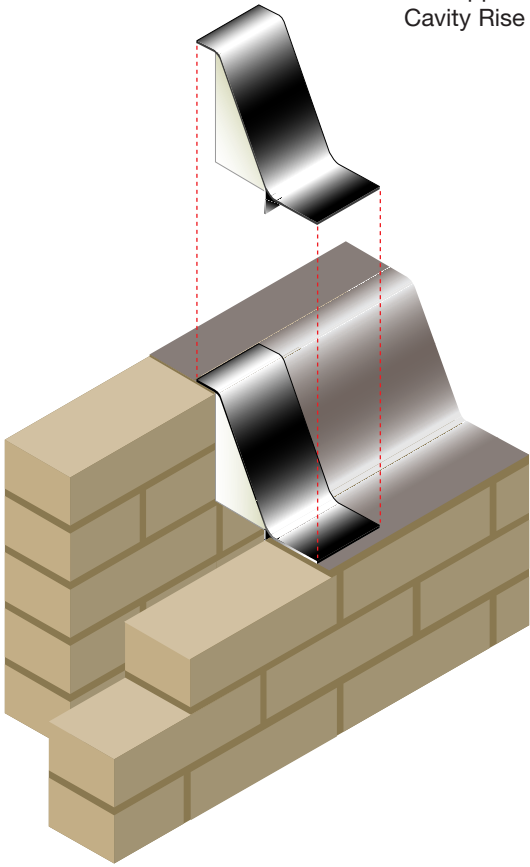
Stop End
Cavity Rise (RH)

Stop End
Cavity Rise (LH)



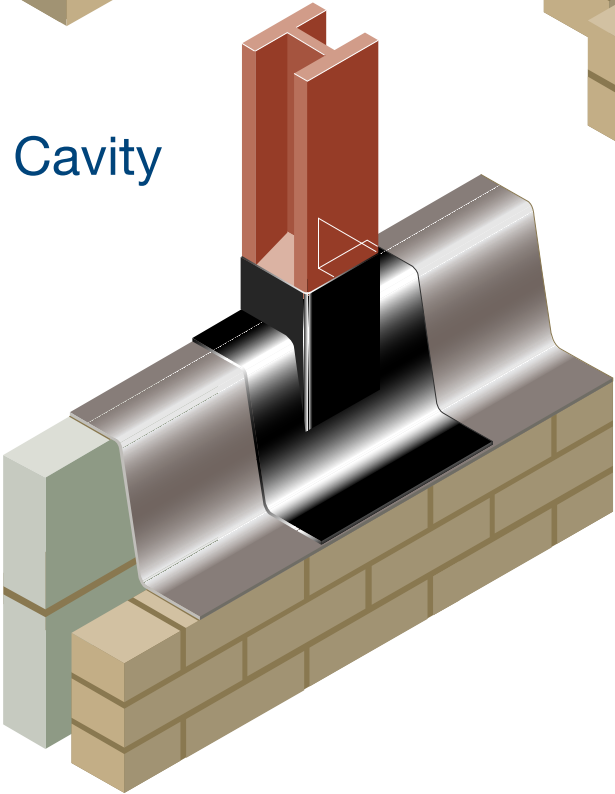
Joint Support

Joint Support
Cavity Rise



Column in Cavity

Specially
manufactured
pre-formed
column unit



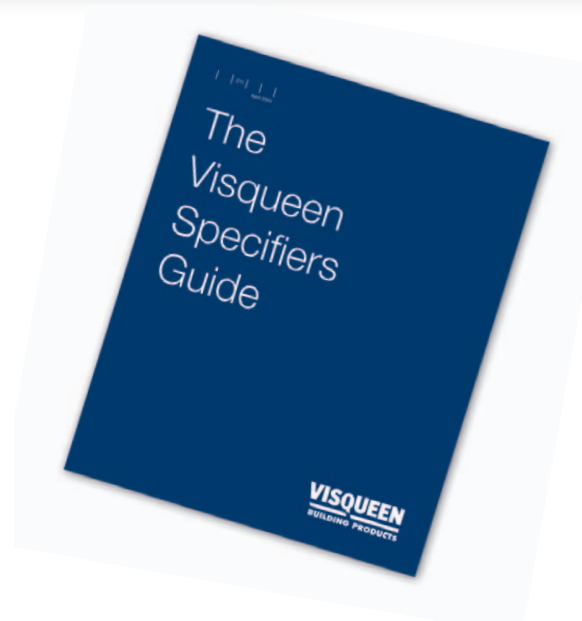
Please Note:
During installation, linear
DPC must overlap the
pre-formed units by 100mm

Technical Support Service

A comprehensive technical support service is available to provide you with assistance when damp proofing your project. The service includes:

The Visueen Specifier's Guide of Damp Proofing

The Visqueen Specifiers Guide includes guidelines on installation and easy to follow accurate details. Many traditional solutions have been revisited and new recommendations made.



CAD Support Service

Our CAD department will assist in the design of Pre-Formed cavity tray units.

Technical Site Support Service

A responsive service to provide advice on site.

Web Site

www.visqueenbuilding.co.uk provides detailed product and technical information. The site is unique from a damp proofing and gas protection supplier in that it contains downloadable technical data sheets and a selection of standard details from our extensive library covering typical dpc, tanking and gas protection applications. Your comments are most welcome and can be posted from the website.

CPD Training Seminars

Visqueen Building Products offer CPD Training Seminars for both Damp Proofing and Gas Protection of buildings. If you are interested, please arrange for your CPD organiser to contact us.

NBS Plus Specifications

To assist with preparing specifications, a comprehensive range of Visqueens products are available in NBS format. These can be faxed or emailed to you upon request. Visqueen Building Products

For more than fifty years the Visqueen Building Products name has been recognised around the world as a leader in the development, production and supply of high performance, high quality construction membranes. Visqueen Building Products are a now a European leader in the field of plastics recycling. Additionally our product range is unmatched in terms of damp proofing and gas protection to buildings.

Contact us if you would like full details on the complete range of Visqueen Products.



Specification of Zedex CPT High Performance Damp Proof System

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Zedex CPT High Performance DPC is suitable for use as a DPC in all types of building construction and can be used in vertical, horizontal, stepped and cavity tray applications. When installed in accordance with the British Standards Codes of Practice for damp and waterproofing, Zedex CPT High Performance DPC forms an effective waterproof seal.

The following information should be clearly stated to ensure that Zedex CPT High Performance Damp Proofing System is specified.

All flexible damp proof course, flexible sheet cavity trays and pre-formed cavity trays to be:

PRODUCT REFERENCE: Zedex CPT High Performance DPC
Zedex CPT Pre-Formed Cavity Trays

MANUFACTURER: Visqueen Building Products,
Zedcor Business Park, Bridge Street,
Witney, Oxon, OX28 1LJ.
t: 01993 776346 f: 01685 842580

Specifiers using NBS (National Building Specification) can specify Zedex CPT High Performance DPC in Work section F30 - Accessories/Sundry Items for Brick/Block/Stone Walling - using the following clauses:

F30/330 Damp Proof Course (polymer based)
F30/345 Flexible Sheet Cavity Trays
F30/370 Pre-Formed Cavity Trays
F30/380 Pre-Formed DPC/Cavity Tray Junction Cloaks/Stop End

For further information about National Building Specification subscription services contact: NBS Services, Mansion House Chambers, The Close, Newcastle Upon Tyne NE1 3RE Tel: 0191 232 9594 Fax: 0191 232 5714



VISQUEEN
BUILDING PRODUCTS

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NBS Plus



bpi.recycled products