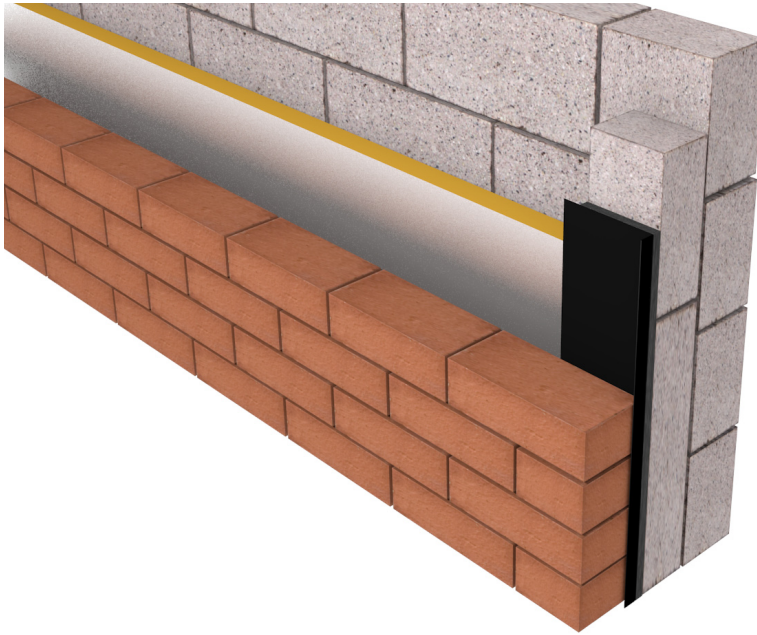




Insulated DPC



Key Features

- DPC conforms to BS6515
- DPC embossed to assist mortar adhesion
- Polyethylene foam insulation
- Conforms to BRE guidelines for thermal insulation



Description

The ARC Insulated DPC has been developed to close off cavities around window and door openings and is intended to be used in conjunction with a return block. The Insulated DPC will also help to eliminate cold bridging around openings

Installation

ARC Insulated DPCs are easy to install as the brickwork progresses before the window or door has been installed, with the DPC sitting against the outer brickwork to prevent moisture penetration. When joining it is recommended the DPC should be fully lapped by at least 100mm with the insulation tightly butted to ensure no breaks are present.

Thermal Properties: Cold Bridging

Cold bridges are sections through the fabric of significantly lower thermal resistance than the rest of the construction. It is most commonly found around window and door openings and usually shows itself through so called pattern staining. A cold bridge through an external frame attracts moisture in the form of surface condensation which attracts dirt and dust. This surface condensation can also lead to mould growth and damage to internal plaster and paint work.

Solution

ARC's Insulated DPC will significantly reduce the risk of cold bridging around window and door openings when fitted in accordance with the manufacturer's recommendations.

Insulated DPC

Detail	Default F-value	F-value with ARC Insulated DPC	Default Ψ -value	Ψ -value with ARC Insulated DPC
Jamb (100mm cavity)	0.75	0.899	0.05	0.04
Sill (100mm cavity)	0.75	0.890	0.04	0.04

As can be seen in the above table, the F-values with an ARC Insulated DPC fitted far exceed the value of 0.75 specified in IP1/06 to avoid mould growth, and likewise the Ψ -values are well below the default values specified. ARC products have been assessed using software that complies with the Standard for Thermal Bridge Calculations BS EN ISO 10211-2007. The conventions for calculations specified in the BRE document BR497 were also followed. The results are compared with the criteria set in the BRE Information Paper IP1/06 'Assessing the Effects of Thermal Bridging at Junctions and Around Openings' which is referenced in Building Regulations.

Standards

The DPC used in the manufacture of ARC Insulated DPC conforms to the requirements of BS6515.

Storage and Packaging

ARC Insulated DPCs are supplied in polythene packs which are designed for transporting and protecting the products. When storing the product for longer periods of time it is recommended the product should be stored indoors, or under cover.

Dimensions & Packaging Specification

Product Code	Insulation Dimensions	DPC: Polyethylene to BS6515	Pack Qty
INS DPC165	100mm x 17mm x 10m coil	165mm x 10m coil	6
INS DPC225	140mm x 17mm x 10m coil	225mm x 10m coil	5

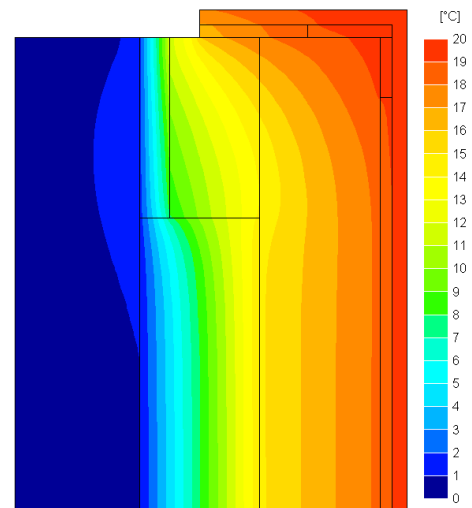
Environment

The closed cell polyethylene foam insulation used in the manufacture of ARC Insulated DPC has no CFCs or HCFCs involved in the manufacturing process, and represents no known threat to the environment. It is rated zero ODP and GWP.

ARC Insulated DPCs have a Green Guide rating of A+.

Health and Safety

ARC Building Solutions has an approved Health and Safety Policy and is committed to working and supplying products safely. We have assessed products as required by Substances Hazardous to Health Regulations (COSHH). An ARC COSHH data sheet is available and can be downloaded from ARC's website.



Above: Temperature distribution illustrating heat loss at a window opening where ARC Insulated DPC is fitted.