Solcourse Insulated DPC

Description:

Solcourse Insulated DPC is a thermal cavity closer designed to close the cavity around window and door reveals in conjunction with a return block, fitting between the return block and inner edge of the outer skin of brickwork. The polyethylene foam insulation aids in preventing cold bridging and eliminates moisture, mould, and staining from around windows and doors, while the DPC is embossed to assist mortar adhesion.

- **Closes cavity around window and door reveals.**
- **Prevents cold bridging.**
- **Insulated with polyethylene foam.**
- **Use in conjunction with a return block.**
- **Conforms to BRE guidelines for thermal insulation.**

Cold Bridges:

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 paintwork.

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

Solco Cavity Closers 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 as shown below.

Detail	Default F-Value	F-Value with Insulated DPC	Default Ψ-Value	Ψ-Value with Insulated DPC
Jamb (100mm Cavity)	0.75	0.899	0.05	0.04
Sill (100mm Cavity)	0.75	0.890	0.04	0.04

Installation:

Solco Insulated DPC is easily installed as the brickwork progresses and before the window or door is fitted.

- The DPC should sit against the inner side of the outer brickwork to prevent moisture penetration.
- When joining it is recommended to lap the DPC by at least 100mm and to ensure the insulation is tightly butted with no breaks.

Storage & Packaging:

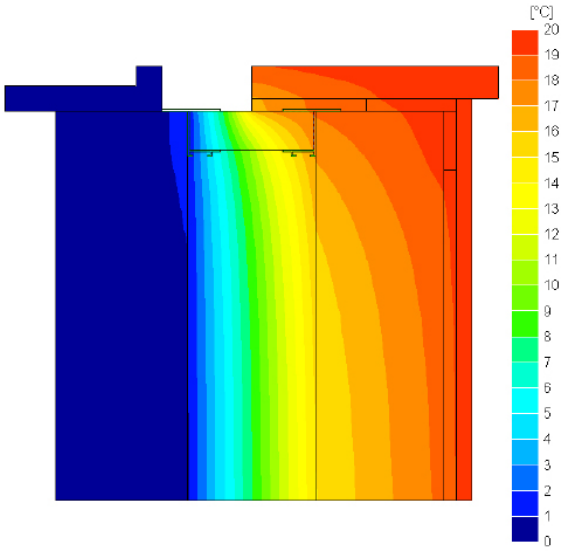
Solco Insulated DPCs are supplied in branded polythene packs which offer protection during transport as well as providing ease of identification on-site.

Solco, Unit 51, Portmanmoor Road Industrial Estate, Ocean Park, Cardiff, CF24 5HB

Thermal Properties:

The polyethylene foam insulation used in Solco Insulated DPC has a thermal conductivity of 0.039 W/mK.

Below: Temperature Distribution illustrating heat loss at a window opening, where Solco Insulated DPC is fitted.



Environment:

- No CFCs or HCFCs are involved in the manufacturing process of the polyethylene foam insulation.
- The material presents no known threat to the environment and is classed as ODP and GWP zero.
- ARC Insulated DPCs have a Green Guide rating of A+.

Standard Dimensions:

Product Code	Insulation Dimensions	DPC: Polythene to BS6515	Pack Quantity
ISNDPC165	100mm x 17mm x 10m coil	165mm x 10m coil	6
INSDPC225	140mm x 17mm x 10m coil	225mm x 10m coil	5

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