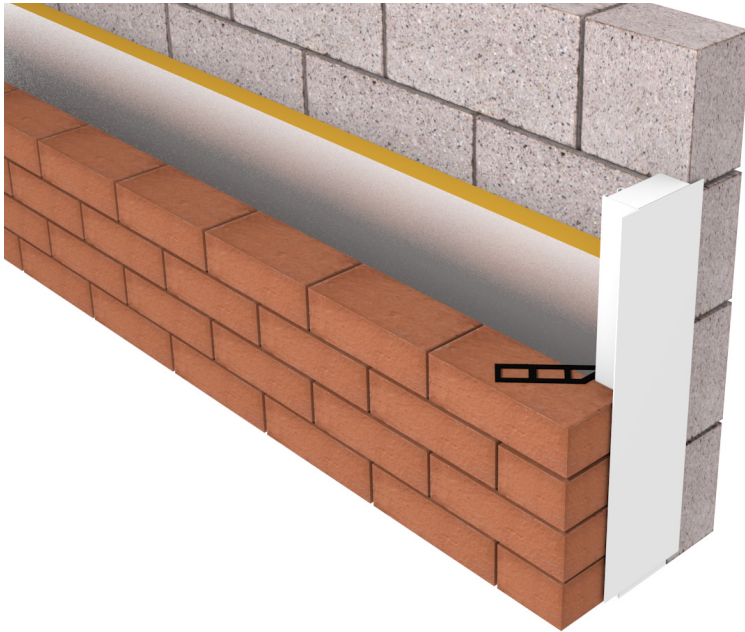




Solcourse Cavity Closer EPS



Key Features

- Closes off cavities around window and door reveals
- Prevents cold bridging
- Insulated with expanded polystyrene (EPS)
- Available for cavity widths from 50 to 150mm
- Supplied in 2.4m lengths
- Single flange available for check reveal details



Description

The Solcourse Cavity Closer EPS is designed to close off the cavity around window and door reveals without the need for a return block, preventing cold bridging and eliminating moisture, mould and staining from around windows and doors. The 2.4m lengths are manufactured from a rigid PVCu profile that is insulated with expanded polystyrene (EPS).

Installation

The Solcourse Cavity Closer EPS is easily installed. Simply cut the jamb profile to the height of the window or door opening plus 75mm to allow the bottom edges to drop into the cavity below the sill. Once the jamb sections are installed, measure the required width for the sill section and cut a length to butt tightly to the jamb sections. If a longer length than 2.4m is required, see jointing method on the next page.

Option 1 (First Fix): As above and build in the jamb sections as the brickwork progresses using Solcourse Brick Ties* (1 every 225mm). Ties are not required on the sill section, simply hold in place with an adhesive or nail to block. *Solcourse Brick Ties are sold separately.

Option 2 (Second Fix): Cut sections to required size as above and simply push fit once the openings are formed. Sections can be secured by nailing to block or using a suitable adhesive.

Standards

ARC Solcourse Cavity Closer EPS is insulated with expanded polystyrene which conforms to BS EN 13163: 2001 Thermal Insulation Products for Buildings, Factory Made Products of Expanded Polystyrene (EPS-specification).

Thermal Properties: Cold Bridging

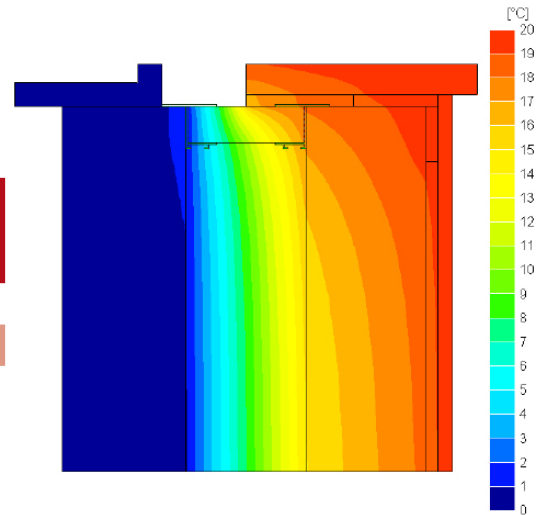
Cold bridges are sections through the fabric of significantly lower thermal resistance than the rest of the construction. It is most commonly found around window and door openings and usually shows itself through so called pattern staining. A cold bridge through an external frame attracts moisture in 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

Solcourse insulated cavity closers will significantly reduce the risk of cold bridging around window and door openings when fitted in accordance with the manufacturer's recommendations.

Detail	Default F-value	F-value with Solcourse Cavity Closer EPS	Default Ψ -value	Ψ -value with Solcourse Cavity Closer EPS
Jamb (100mm cavity)	0.75	0.928	0.05	0.014
Sill (100mm cavity)	0.75	0.947	0.04	0.009

As can be seen in the above table, the F-values with a Solcourse Cavity Closer EPS 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. Solcourse 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.



Above: Temperature distribution illustrating heat loss at a window opening where Solcourse Cavity Closer is fitted.

Solcourse's expanded polystyrene insulation has a thermal conductivity of 0.038W/mK.

Standards

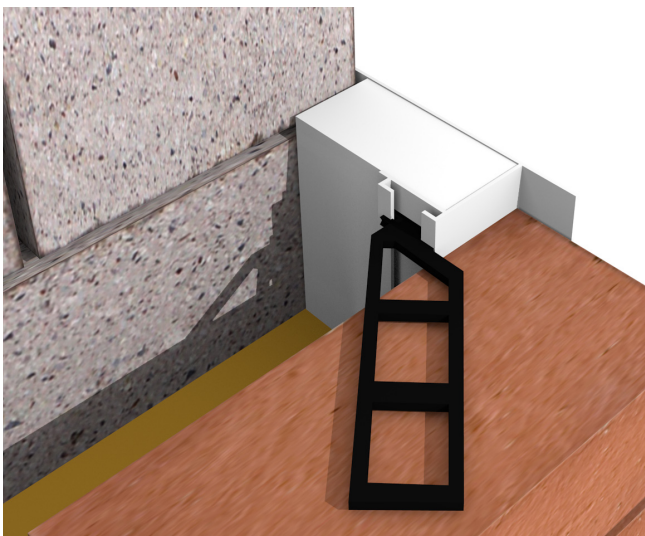
Solcourse Cavity Closers use expanded polystyrene which conforms to BS EN 13163: 2001 Thermal Insulation Products for Buildings, Factory Made Products of Expanded Polystyrene (EPS-specification).

Storage and Packaging

Solcourse Cavity Closers are supplied in branded polythene packs which offer protection during transport as well as providing ease of identification on-site.

Environment

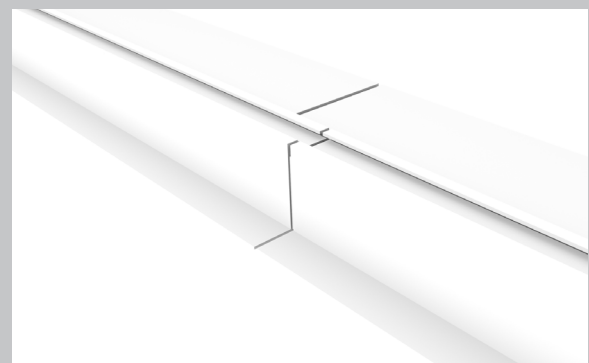
No CFCs or HCFCs are involved in the manufacturing process of Solcourse's expanded polystyrene (EPS) insulation. The material presents no known threat to the environment and is classed as ODP and GWP zero.



Above: Brick Ties enable quick and easy installation as the brick and blockwork progresses.

Joining Method

Where a longer length than the supplied 2.4m is required, the following joining method should be used. Using an appropriate saw, remove 150mm of the plastic profile only, then push the exposed insulation into the next length of plastic profile.



Solcourse Cavity Closer EPS

By specifying Solcourse Cavity Closer EPS with expanded polystyrene you are playing a big part in helping to protect the environment by reducing heat loss from buildings and therefore reducing green house gasses.

Solcourse Cavity Closer EPS has a Green Guide rating of A+.

Standard Dimensions

Product Code	Suitable for Cavity Width	Dimensions	Lengths Per Pack
EPSSOLCC50	50mm	50 x 2400mm	8
EPSSOLCC65	65mm	65 x 2400mm	8
EPSSOLCC75	75mm	75 x 2400mm	8
EPSSOLCC85	85mm	85 x 2400mm	8
EPSSOLCC90	90mm	90 x 2400mm	8
EPSSOLCC95	95mm	95 x 2400mm	8
EPSSOLCC100	100mm	100 x 2400mm	8
EPSSOLCC110	110mm	110 x 2400mm	6
EPSSOLCC125	125mm	125 x 2400mm	6
EPSSOLCC135	135mm	135 x 2400mm	6
EPSSOLCC150	150mm	150 x 2400mm	6
EPSSOLCC180	180mm	180 x 2400mm	5
EPSSOLCC50CR- EPSSOLCC180CR	50 - 180mm	As above but single flange for check reveal	As above

Solcourse Cavity Closer EPS is supplied with different plastic profiles to suit larger cavity widths as illustrated below. This ensures the product maintains its rigidity right up to a 300mm cavity width.

