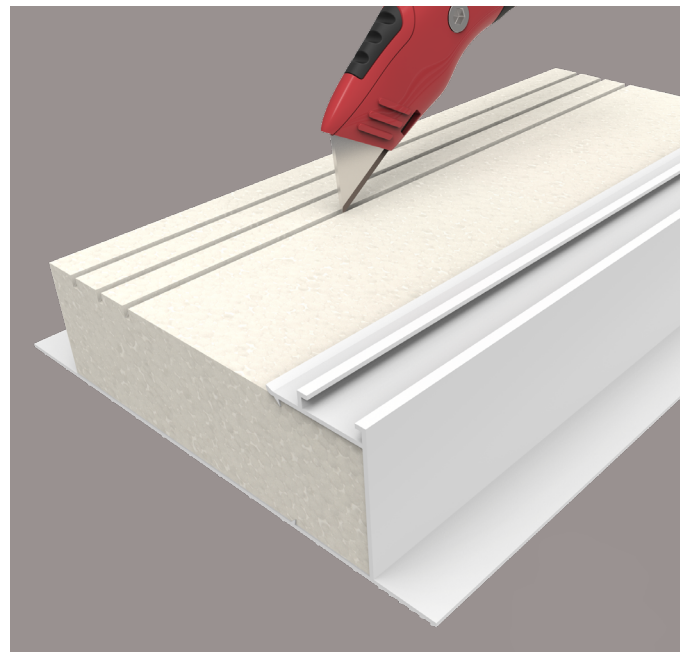




FLEXI-CLOSER

Multi-width thermal cavity closer for window and door reveals

- » Closes cavity around window and door reveals
- » Fits multiple cavity widths in one product - simply cut to size
- » Prevents cold bridging
- » Integral DPC
- » Helps eliminate moisture, mould and staining from around windows and doors
- » Insulated with expanded polystyrene (EPS)
- » Single flange available for check reveal details



FLEXI-CLOSER

Application

ARC Flexi-Closer closes the cavity around window and door openings in masonry walls, providing excellent thermal properties. The rigid PVCu profile acts as an integral DPC, and is insulated with expanded polystyrene (EPS).

ARC Flexi-Closer is supplied complete with cutting guides to enable common cavity widths to be quickly and accurately cut.

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.

The Solution

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

ARC 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 ARC Flexi-Closer | Default Ψ -value | Ψ -value with ARC Flexi-Closer |
|------------------------|-----------------|-------------------------------|-----------------------|-------------------------------------|
| Jamb (100mm cavity) | 0.75 | 0.925 | 0.05 | 0.016 |
| Sill (100mm cavity) | 0.75 | 0.945 | 0.04 | 0.010 |

Standards

ARC Flexi-Closer has a thermal conductivity of 0.038W/mK.

Environment

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

ARC Flexi-Closer has a Green Guide rating of A+.

Installation

The ARC Flexi-Closer is easily installed, either as the brick and block work progresses, or in to pre-formed openings.

Firstly, cut the lengths of cavity closer to the required cavity width.

Secondly, 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 to the right.

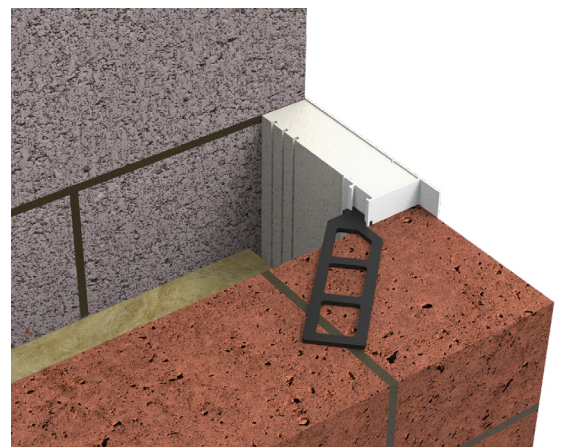
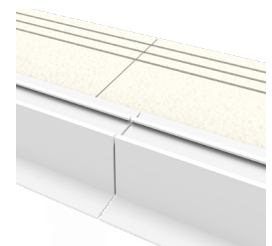
Option 1 (First Fix): As above and build in the jamb sections as the brickwork progresses using ARC Brick Ties* (1 every 225mm). Ties are not required on the sill section, simply hold in place with an adhesive or nail to block. *ARC Brick Ties are optional and are sold separately.

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.

- » No gaps should exist either between the cavity closer and construction, or between jointed sections
- » The cavity closer must fill the cavity between brick and block, with cavity insulation cut back
- » The PVC up-stand should be fitted against the external leaf to deflect any moisture penetration through the brick
- » A plasterboard sill should be mechanically fitted over the cavity closer

Jointing Method

Where a longer length than the supplied 2.4m is required, the following jointing 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.



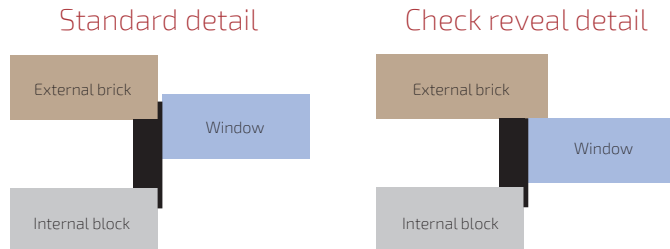
Right: ARC Flexi-Closer installed using ARC Brick Ties



FLEXI-CLOSER

Check Reveal

ARC Flexi-Closer is optionally available with a single flange to suit check reveal details where the window is set back behind the external brickwork.



Key Stats

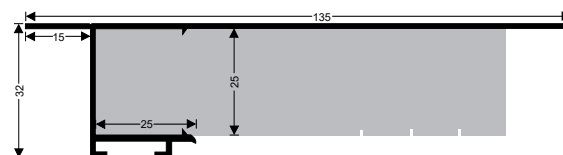
| | |
|----------------------|----------------------------|
| Length supplied | 2.4m |
| Insulation | Expanded polystyrene (EPS) |
| Thermal conductivity | 0.038W/mK |
| Fire rating | Not applicable |
| Orientation | Vertical or horizontal |
| Integral DPC | Yes |

Product & Packaging Specification

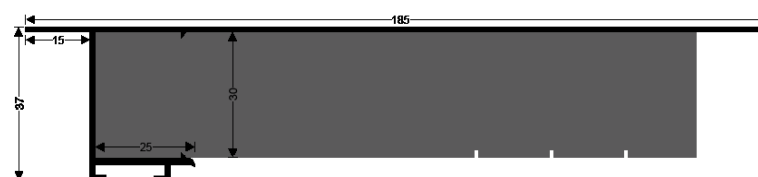
| Product Code | Suitable for Cavity Widths | Dimensions | Insulation | Insulation Thickness | Lengths Per Pack | Packs Per Pallet |
|-------------------------|--|--|--------------|----------------------|------------------|------------------|
| FC100/25 | 65, 75, 85, 100mm | 100 x 2400mm | EPS | 25mm | 10 | 50 |
| FC150/30 | 110, 125, 150mm | 150 x 2400mm | Graphite EPS | 30mm | 6 | 50 |
| FC100/25CR & FC150/30CR | As above but single flange for check reveal detail | As above but single flange for check reveal detail | As above | As above | As above | As above |

| Product Code | Description | Pack Quantity |
|--------------|---|---------------|
| BRICKTIES | ARC Brick Ties to suit ARC Flexi-Closer | 100 |

FC100/25
65, 75, 85 & 100mm cavity



FC150/30
110, 125 & 150mm cavity



Storage and Packaging

ARC Flexi-Closer is supplied in polythene packs which are designed for transporting and protecting the products. It is not recommended that the packs are stored in direct sunlight. When storing the barriers for longer periods of time it is recommended that the product should be stored indoors, or under cover.

Health and Safety

ARC Building Solutions has an approved Health and Safety Policy and is committed to working and supplying products safely. ARC's rockfibre mineral wool is not classed as a possible human carcinogen. 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.

Any information provided within this document is intended for guidance only. Expert technical advice should be sought before specification or installation of any product. It is of particular importance to ensure that any fire barrier or fire stopping product is tested for use with the exact application intended. ARC Building Solutions Ltd cannot accept liability for failure where usage is outside of the standard application, including but not limited to, where deflection or distortion has allowed gaps to form around the barrier, or where the barrier is not fitted in accordance with the manufacturer's guidelines.

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Assessed to ISO 9001 & ISO 14001
BRE Certificate No. 1227