

ARC 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



Tackles damp
& mould



Excellent thermal
properties



Suitable for
standard details



NBS Source
PARTNER

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.

Installation

The person installing the ARC Flexi-Closer should first familiar themselves with this datasheet, ensuring the correct product is being fitted into the cavity.

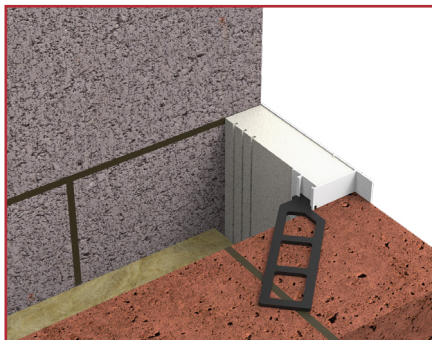
The ARC Flexi-Closer is easily installed, either as the brick and block work progresses, or in to pre-formed openings.

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.

ARC Flexi-Closer installed using ARC Brick Ties

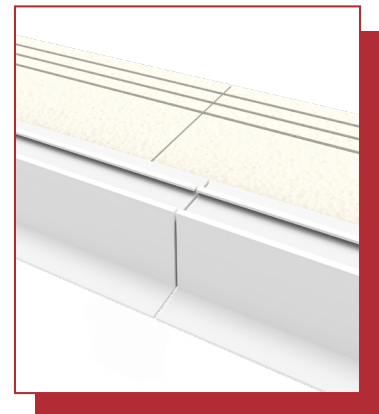


Option 2 (Second Fix): Cut sections to required size as above and simply push fit once the openings are formed. Sections can be secured by nailing to block or using a suitable adhesive.

- » 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.



Key Stats

Length supplied	2.4m
Insulation	Expanded polystyrene (EPS)
Thermal conductivity	0.038W/mK
Orientation	Vertical or horizontal
Integral DPC	Yes
Mass	Data available on request

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

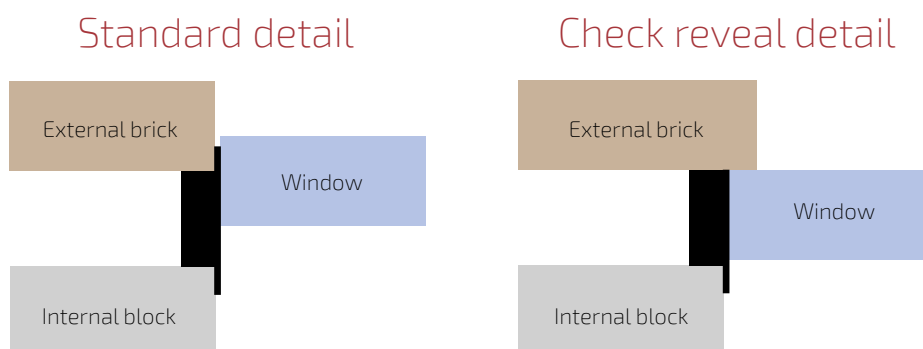
ARC Flexi-Closer will significantly reduce the risk of cold bridging around window and door openings when fitted in accordance with the manufacturer's recommendations.

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

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.



Product & Packaging Specifications

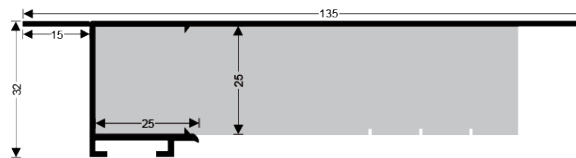
Product Code	Standard Cavity Width	Dimensions	Insulation	Insulation Thickness	Lengths Per Pack	Packs Per Pallet
FC100/25	65, 75, 85, 100mm	100 x 2400mm	EPS	25mm	10	50
FC150/30	110, 125, 150mm	150 x 2400mm	Graphite EPS	30mm	6	50
FC100/25CR & FC150/30CR	As above but single flange for check reveal detail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

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

Call our technical experts on 0113 252 9428 to discuss your requirements.

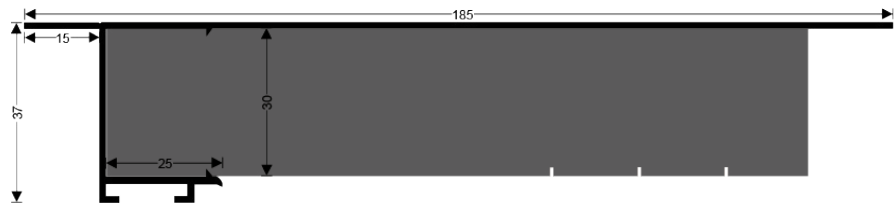
FC100/25

65, 75, 85 & 100mm cavity



FC150/30

110, 125 & 150mm cavity



Standards

ARC Flexi-Closer is insulated with rockfibre mineral wool which conforms to the BS EN 13162: 2001 Thermal Insulation Products for Buildings, Factory Made Mineral Wool Products specification, and has a thermal conductivity of 0.038W/mK.

Non-Standard Applications

Where usage falls outside of the certificated scope, for example when used with external cladding, or with an internal metal frame system, performance of the fire barrier will depend upon the structural integrity and fire performance of the surrounding construction.

Specifiers must ensure all construction elements that make up part of the internal or external leaf of the wall, including support systems, are suitable for use with a cavity fire barrier for the length of fire integrity and insulation required. Particular attention must be paid to any possible deflection or distortion which could cause gaps to form between the construction and any fire barrier installed.

In the event of a fire, 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.

Storage & Packaging

ARC Flexi-Closers 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 especially during inclement weather or overnight.

Health & Safety

At ARC Building Solutions, safety is a top priority, both in how we work and the products we supply.

We've carefully assessed the materials we use, and we're pleased to say our rockfibre mineral wool isn't classed as a possible carcinogen.

Our products have no hazardous classifications under UK REACH and GB CLP regulations when it comes to physical, health, or environmental risks.

As always, we recommend following the product instructions when handling and installing ARC products. If you'd like more information on our approach to health and safety as a whole, just ask us for a Safety Data Sheet (SDS).

Environment

No CFCs or HCFCs are involved in the manufacturing process of ARC's rockfibre mineral wool insulation. Additionally, the mineral wool has a Green Guide rating of A+.

This product can be disposed of via landfill; preferably, the product should be returned to ARC Building Solutions so that the waste can be separated and recycled accordingly.

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. Due to the protective polythene, the product as a whole cannot be classified as A1 non-combustible.

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