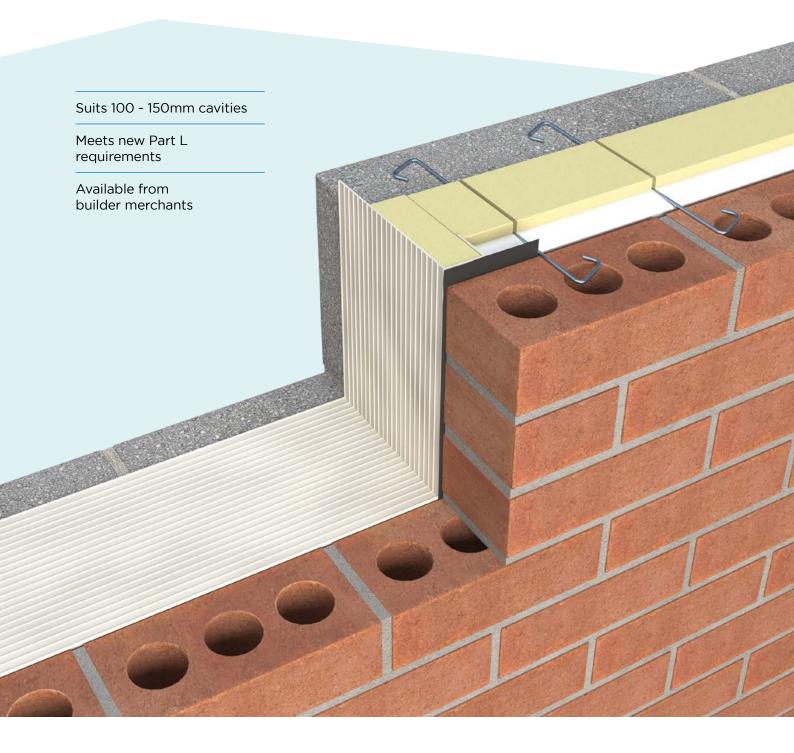
## ACCESSORIES CAVITY CLOSER

Cavity Closer

**CLOSE-R** 





# **CLOSE-R**Insulated Cavity Closer

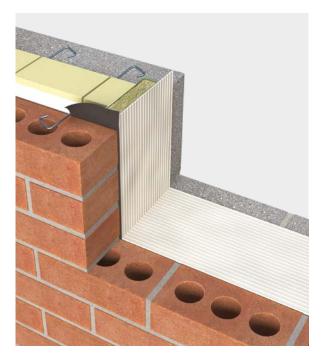
#### **CLOSE-R**

Unilin **Close-R** fully insulated cavity closers are a solution for builders and specifiers for the closing of cavities around window and door openings, preventing cold bridging, damp penetration, air infiltration and condensation.

The Close-R range is used to close cavities and is suited to all types of windows and doors and is available in sizes to fit cavity widths from 100mm - 150mm, with checked detail to suit brick or drylined specifications and flanged detail to suit block outer facings. (Flanged detailing requires precise construction tolerances).

### **Benefits**

- Suits 100 150mm cavities
- Meets new Part L requirements
- Available from Builder Merchants



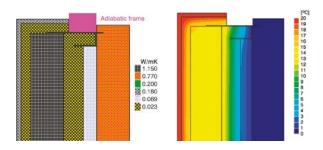
### **Building Regulations**

The recently revised Part L of the Irish Building Regulations places great emphasis on detailing at junctions. It has recognised the need to improve traditional junction performance as wall U-Values improve.

Targets for junction thermal performance are set in the BRE Paper IP1/06 and asks that a value of 0.05 be achieved. In the past where a typical wall U-Value was between 0.37 and 0.27, the 0.05 target was easily achieved using the traditional 25mm strip at the reveal. However when pushing the wall U-Values to 'A or B' rated values the junctions actually fail IP1/06.

Unilin Close-R has been independently tested to exceed the new standards.

### Thermographic measurement - Best Practice with liner



It has been estimated that up to 30% of the heatloss in a well insulated house is through 'Non Repeating Thermal Bridges' at wall/floor junctions, corners, reveals, ceiling junctions heads and sills.

Appropriate detailing to ensure the "Continuity of insulation" is now asked for by Part L, and this continuity can be satisfied by following details provided by the Department of Housing, Local Government and Heritage in their publication 'Acceptable Construction Details TGD Part L Building Regulations 2021-Introduction' Using these details will allow the BER assessor to ascribe a good score to the detailing section within DEAP with a Y-value of 0.08, following the Enhanced Details using the Close-R system with insulated drylining may allow a Y-value of 0.04 to be used - a substantial improvement.

### **INSTALLATION GUIDELINES**

#### **CLOSE-R**

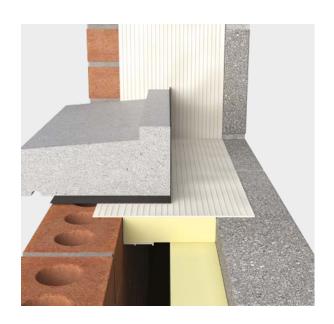
If precise fitting of windows can not be guaranteed, a checked reveal using a vertical DPC should be used.

Any jointing of Close-R should be facilitated within 150mm of the opening head. Close-R should be extending by 50mm past the sill closer.

When sills are horned into the facing outer leaf, the reveal Close-R should be trimmed around the concrete sill and extend 50mm into the cavity.

Horizontal DPCs should be used with the sill as normal, with a minimum lining of 40mm Polyiso placed at the back of the concrete sill.

Should clarification be required, contact Unilin Technical Support prior to installation.



### XT/CW (T&G) Partial Fill

Wall U-Value	XT/CW (T&G)	Thermal Liner	IP1/06 Psi Target	Measured Psi-value
0.21	80mm	=	0.05	0.001
0.18	100mm	-	0.05	0.002
0.16	110mm	-	0.05	0.003
0.18	60mm	50.5mm	0.05	0.005

### **CT/PIR Built-In Full Fill**

Wall U-Value	CT/PIR	Thermal Liner	IP1/06 Psi Target	Measured Psi-value
0.20	100mm	-	0.05	0.003
0.18	110mm	-	0.05	0.003
0.16	125mm	-	0.05	0.004
0.13	150mm	-	0.05	0.005

### **INSTALLATION GUIDELINES**

### **CLOSE-R**

### **Flanged fit - Concrete Outer**

This method requires precise construction to facilitate accurate window fitting against Close-R.

Length	Cavity Width	XT/CW (T&G) Thickness
2400mm	100mm	Max 60mm
2400mm	110mm	Max 60mm
2400mm	120mm	Max 80mm
2400mm	140mm	Max 100mm
2400mm	150mm	Max 110mm



### **Checked fit - Brick Outer**

Length	Cavity Width	XT/CW (T&G) Thickness
2400mm	100mm	Max 60mm
2400mm	110mm	Max 60mm
2400mm	120mm	Max 80mm
2400mm	140mm	Max 100mm
2400mm	150mm	Max 110mm



### Checked fit - Plus Thermal Liner (Enhanced Accredited Detail)

Length	Cavity Width	XT/CW (T&G) Thickness
2400mm	120mm	Max 80mm



### **Checked fit - CavityTherm Built-in Full Fill**

Length	Cavity Width	CavityTherm Thickness
2400mm	100mm	Max 100mm
2400mm	110mm	Max 110mm
2400mm	125mm	Max 125mm
2400mm	150mm	Max 150mm



### **CLOSE-R**

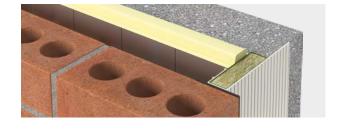
### Unilin Close-R (FR) - fire rated cavity closers

The Unilin Close-R (FR) Fire rated closer by Dacatie, comprises a PVC-U outer profile with encapsulated insulation. It forms a continuous fire rated insulated cavity closer providing a minimum 30 minutes integrity and is covered by BBA Certificate 98/3474.



### **Checked fit - Brick Outer**

Length	Cavity Width	XT/CW (T&G) Thickness
2400mm	100mm	Max 60mm
2400mm	110mm*	Max 60mm
2400mm	120mm	Max 80mm
2400mm	140mm	Max 100mm
2400mm	150mm	Max 110mm



<sup>\*</sup>Available subject to minimum order quantity and lead times

### Checked fit - Plus Thermal Liner (Enhanced Accredited Detail)

Length	Cavity Width	XT/CW (T&G) Thickness
2400mm	100mm	Max 60mm
2400mm	110mm*	Max 60mm

\*Available subject to minimum order quantity and lead times



### HANDLING, CUTTING & STORAGE

Unilin insulation should be stored off the ground, on a clean, flat surface and must be stored under cover. The polythene wrapping is not considered adequate protection for outside exposure. Care should be taken to protect the insulation in storage and during the build process.

The insulation boards can be readily cut using a sharp knife or fine toothed saw. Ensure tight fitting of the insulation boards to achieve continuity of insulation as asked for within the ACDs. Appropriate PPE should be worn when handling insulation. Please refer to Health & Safety data sheets on our website.

The boards are wrapped in polythene packs and each pack is labelled with details of grade/type, size and number of pieces per pack.

### **Durability**

Unilin Insulation products are stable, rot proof, provide no food value to vermin and will remain effective for the lifetime of the building, depending on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil. When contact is made, clean materials in a safe manner before installation.







Higher standards of fabric performance call for greater adherence to best practice detailing. To achieve this and to 'close the gap' between design and build, we provide a dedicated Technical Team, all qualified to the highest standards of competency in U-Value calculation and condensation risk analysis.

#### Here to support you

- BRE listed Thermal Bridging Detailing
- BRE/NSAI Trained Modelling
- BBA/TIMSA calculation competent
- Warranted Calculations available
- Immediate technical response
- DEAP Qualified
- Insulation systems to deliver real onsite performance

#### Get in touch

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ISO 9001 Quality Management Systems
ISO 14001 Environmental Management Systems

#### **The Sustainable Solution**

Specifying Unilin Insulation is a real commitment to minimising energy consumption, harmful  $\mathrm{CO}_2$  emissions and their impact on the environment. Using our products is one of the most effective ways to reduce energy consumption – in fact, after just eight months the energy they save far outweighs the energy used in their production. In addition, our manufacturing facilities operate to an ISO 14001:2015+A1:2024 certified Environmental Management System.

#### **Environmental Product Declaration (EPD)**

An Environmental Product Declaration or EPD for a construction product indicates a transparent, robust and credible step in the pursuit and achievement of real sustainability in practice, it is a public declaration of the environmental impacts associated with specified life cycle stages of that product. Unilin EPDs have been independently verified in accordance with EN 15804+A2:2019 and ISO 14025:2010 accounting for stages of the LCA from A1 to A3, with options A4-A5 and modules C1-C4 and D included. The process of creating an EPD allows us to improve performance and reduce resource wastage through improvements in product design and manufacturing efficiency. They play a crucial role in manufacturing and construction and are increasingly asked for by industry.

#### **EPDs and BREEAM**

BREEAM is primarily trying to encourage designers to take EPDs into consideration when specifying products. BREEAM requires EPDs to be verified by a third-party. For the Mat O2 category, points are awarded based on whether EPDs are generic, manufacturer-specific, or product-specific. Non 3rd party verified EPDs to EN 15804:2012+A2:2019 cannot be accepted. All of Unilin EPDs are externally verified.

#### **Responsible Sourcing**

Unilin has BES 6001 certification for responsible sourcing. The second BREEAM credit under that category is based on responsibly-sourced materials – at least 80% of the total insulation used in roofs, walls, ground floors and services must meet any of tier levels 1 to 6 in the BREEAM table of certification schemes. Our Environmental Management System is certified under EN ISO 14001:2015+A1:2024, and our raw materials come from companies with similarly certified EMS (copies of all certificates are available for BREEAM assessments). This level of responsible sourcing meets tier level 6 in the BREEAM table.

Good workmanship and appropriate site procedures are necessary to achieve expected thermal and airtightness performance. Installation should be undertaken by professional tradespersons. The example calculations are indicative only, for specific U-Value calculations contact Unilin Insulation Technical Support. Unilin technical literature, Agrément certifications and Declarations of Performance are available for download on the Unilin Insulation website. The information contained in this publication is, to the best of our knowledge, true and accurate at the time of publication but any recommendations or suggestions which may be made are without guarantee since the conditions of use are beyond our control. Updated resources may be available on our websites. All images and content within this publication remain the property of Unilin Insulation.