

Specifications

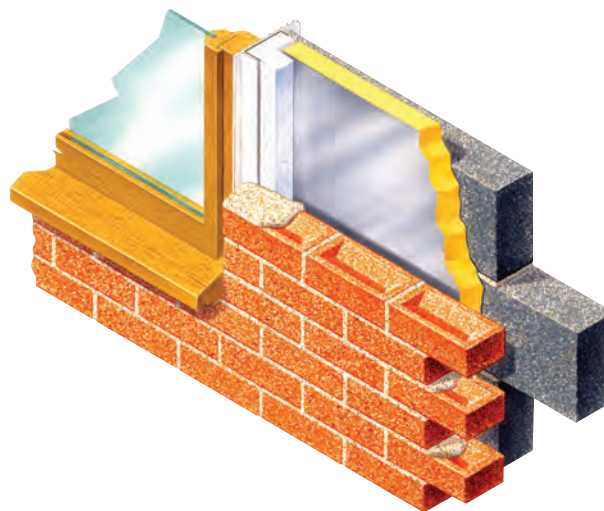
Product name - group	Continuity Closer
Exposure Rating / Frame Relationship	Severe 30mm+ setback. Very severe when checked
Cavity - Standard Sizes Accommodated	100mm only
Special Cavity Widths Accommodated	Yes bespoke closer service offered
Straight Reveals	Yes - build in profile as supplied
Checked Reveals	No - but possible under bespoke service
Product Lengths	2.4m
Acts as Vertical DPC	Yes
Acts as Insulator	Yes
Permits Different Frame Positions	Yes
Frames Fitted as Work Proceeds or Later	Yes - first or second fix options
Timber Frame / Traditional Construction	Both styles accommodated
Masonry Skin Styles	All popular flat faced masonry
Undulating Masonry Face Finishes	Seek advice providing details of material
Fire Rated	No (see Cavi prefixed range for fire rated)
Vertical and Horizontal Applications	Yes - see examples
Compatible with other Cavity Wall Elements	No identified restrictions
Securing Ties Supplied	Option if first fixing
Pack Sizes	x10 lengths
Weight per pack	10.4 kg per pack
Material	PVCU + Polystyrene
Colour	White
Building Regulations	Yes regulations can be satisfied
NHBC / Zurich / Premier Requirements	Yes regulations can be satisfied
'K' Value of Insulation	0.038 - 0.033 choice
CFC Free	Yes + zero ODP
Eco points rating	Low
CAD Drawing Downloads Available	Yes

CONTINUITY CLOSER

Reveal closer that interfaces with cavity insulation

- Blocks heat loss path
- Eliminates thermal spiking
- Acts as vertical DPC
- First and second fix applications

First-fix or
second-fix
options



Requirement

To close a reveal in a cavity wall within which there is partial fill insulation. To provide thermal zoning. To act as a vertical dpc.

Solution

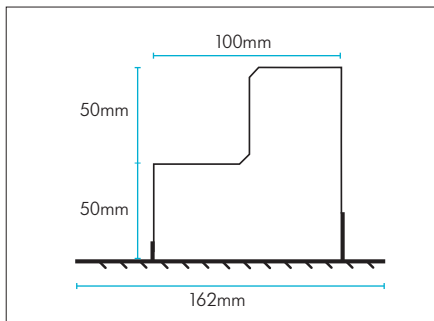
The faceplate of the Continuity Closer spans both masonry skins and provides a rigid finish for reveal finishing of plasterboard on dabs or similar. The insulating core is stepped to close the reveal and interface with the adjacent partial fill cavity insulation. In so doing the Continuity Closer masks the thermal spiking path that should not exist but commonly does in both first fix and second fix closer applications.

With the heat loss path obscured, the construction need not default outside the Building Regulations approved document L1A 5.9 that states there shall be no reasonably avoidable thermal bridges caused by gaps.

Always state the cavity width and thickness of cavity insulation, so the Continuity Closer is supplied with the appropriately sized insulation core.

References

- Building Regulations Document C L1 & L2
- British Standard 5628-3
- BRE Thermal Insulation Avoiding Risks
- Cavity Trays Ltd main manual
- Website: cavitytraystandards.co.uk
- Robust Details
- Scottish Tech Standards Part D
- Building Regulations Scotland – proposals for consultation June 2008
- BS EN ISO 10211: Thermal bridges in building construction



Designers' Comments

Failure through thermal spiking or thermal bypassing is likely to become more recognised as the standards for efficiently insulated structures increases and more completion testing is carried out. Gaps in insulation also support interstitial condensation that is an accompanying risk where insulation is punctuated, inconsistent or absent.

The following demonstrates the effect insulation gaps can have: A typical cavity wall with a low-density outer skin, 100mm cavity with 50mm insulation within and an internal skin of low-density block finished with plasterboard on dabs, can have a u-value of 0.28 W/m²K. The same wall without insulation has a u-value of 0.85 W/m²K. (Calculations based on BS EN ISO 6946 wall procedures).

A cavity wall arrangement with insulation gaps cannot match the thermal integrity of a cavity wall arrangement as intended and contravenes the requirement for uninterrupted thermal insulation as stipulated within the Building Regulations.

Bill of Quantity / Specification Wording

F30 Accessories / sundry items for brick / block / stone walling
180 Cavity Closers

Manufacturer: Cavity Trays Ltd, Yeovil Somerset BA22 8HU Tel: 01935 474769

Continuity Closer with integrating insulation core to close vertical reveals at window and door openings. Build in carefully observing manufacturers' instructions to ensure correct installation. (2400mm lengths). Metres run _____.