


Number BAW 11-304/3	 <p style="text-align: center;">BDA Agrément® Nr. BAW 11-304/3</p> <p style="text-align: center;">Data Sheet Wall – Design</p> <p style="text-align: center;">Testing accreditation RvA L 447 (acknowledged by UKAS)</p> <p style="text-align: center;">To check the validity of this document please consult www.bda.nl</p>	Category Specific
Date 2011.03.15		Phase Design
Code XPS10CC/ EPS10CC		Subject Insulated cavity closer for walls
Product Supplier Description Scope (objective) Frame of reference Product characteristics Points of attention	<p>Easi-Close/MultiFix</p> <p>Yorkshire Building Services (Whitwell) Ltd. The Craggs Industrial Park Morven Street UK-S80 4AJ Creswell Derbyshire T.: +44 (0) 844 9910044, F.: +44 (0) 844 9910055 E.: technical@ybsinsulation.com, I.: www.ybsinsulation.com</p> <p>PVC cavity closer, to be built in at the construction stage. The connected extruded polystyrene (XPS) or expanded polystyrene (EPS) core can be cut to fit any cavity up to 150 mm.</p> <p>Cavity closure to provide a damp-proof barrier and thermal insulation as installed around masonry external cavity wall opening provisions such as windows and door sets, including checked and rebated reveals.</p> <ol style="list-style-type: none"> Directive BDA Agréments, September 2010 BDA Agrément® Nr. BAW 11-305/3 Easi-Close/MultiFix (installation) BDA Agrément® Nr. BAW 11-306/3 Easi-Close/MultiFix (regulations) BS 5250: 2002 <i>Code of practice for control of condensation in buildings</i> BDA report 0312-L-06/1 Styrisol <i>Determination of the thermal performance (EN 12667), 2008.02.18</i> BBA Agrément Certificate No 91/2568:2008 <i>Springvale Floorshield Insulation</i> EN 12667:2001-02 <i>Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance</i> BS-EN 13164:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification</i> BS-EN 13163:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of expanded polystyrene foam (EPS) - Specification</i> EN 1027:2000 <i>Windows and doors - Watertightness - Test method</i> Robust Construction Details:2001 <i>Limiting thermal bridging and air leakage</i> EN-ISO 6946:2008 <i>Building components and building elements. Thermal resistance and thermal transmittance. Calculation method</i> BRE Information Paper IP 8/08:2008 <i>Determining the minimum thermal resistance of cavity closers</i> <ul style="list-style-type: none"> profiles : continuous rigid PVC-U extrusions infill : Styrisol (XPS⁹) or Springvale (EPS⁹) thermal conductivity (λ_{10}) XPS⁵ : 0,032 (W.m⁻¹.K⁻¹) EPS⁶ : 0,034 (W.m⁻¹.K⁻¹) nominal length : 2,4 (m) nominal width : infill can be cut to fit any cavity up to 150 (mm) <ol style="list-style-type: none"> The cavity closers are delivered to site wrapped in polyethylene film, supplied with a label marked Easi-Close/MultiFix, the date of manufacture, dimensions, the number of closers in the wrap, the identity code of the packer and an instruction leaflet, the BDA identification mark and the number of this Agrément. Wall integrity The Easi-Close/MultiFix cavity closers must be either friction fitted into the cavity of the external wall at the point of closure, at a sill or threshold or installed into the cavity as it is raised. The load imposed on and by the wall must be transferred directly to the main structure. Specifically the lintel shall not bear directly onto the closer. The cavity closer shall be continuously supported. The cavity width shall be between 30 mm and 150 mm. See also figures 1 and 2 in BDA Agrément® Nr. BAW 11-305/3 Easi-Close/MultiFix (installation)². Weathertightness The use of Easi-Close/MultiFix obviates the necessity for reveal blocks (see figure 1 in ref.2). The product can also be used in checked or rebated reveal details, typical in areas of very severe exposure rating such as Scotland and Northern Ireland, with the outer leave masking the edge of the window jamb, as shown in figure 2 in ref. 2. Thermal performance aspects <ul style="list-style-type: none"> The minimum thermal resistance has been calculated for the minimum path as defined in ref. 13. The calculated results, as given in tables 1 and 2 for 100 to 150 mm cavities and tables 3 and 4 for 50 mm cavities are only valid if the detail dimensions comply with relevant detail figures as given in this document and BDA Agrément® Nr. BAW 11-305/3 Easi-Close/MultiFix (installation)². The inserted XPS or EPS insulation shall fit tightly (factory fitted) with no air gaps between the insulation and the shell of the closer, apart from the gap due to the profile. All of the calculated results are greater than the minimum requirement of 0,45 m².K.W⁻¹, therefore the product conforms with the requirements of Robust Construction Details¹¹. The requirement for limiting the heat loss through the building fabric, including the effect of thermal bridging can be satisfied if the U-values of the building elements do not exceed the maximum values in the relevant Elemental Methods given in the National Building Regulations of England and Wales (Approved Documents L), Scotland (Technical Standard Regulations 9) and Northern Ireland (Technical Booklet F). Typical window and door sets details are given in BDA Agrément® Nr. BAW 11-305/3 Easi-Close/MultiFix (installation)². Behaviour in relation to fire <ul style="list-style-type: none"> The product will not reduce the fire resistance performance of masonry external cavity walls and, within the context of UK Building Regulations, are not required to provide fire resistance when used to close cavities at the top of walls or around openings, when the walls are constructed from two leaves of brick or concrete each at least 75 mm thick (see for example diagram 32 of Approved Document B of England and Wales Building Regulations). Since the product is combustible, it shall be adequately separated or shielded from heat-producing appliances, incinerators, hearths, fire backs, ash pit surrounds, ductwork for high temperature gasses, flues, chimneys and fire places or recesses. Durability The product is stable, rot-proof and durable and will remain effective for the life of the building in which it is installed, provided that it remains protected within the external wall cavity and is installed in accordance with BDA Agrément® Nr. BAW 11-305/3 Easi-Close/MultiFix (installation)². Building Regulations Further information on regulations is given in BDA Agrément® Nr. BAW 11-306/3 Easi-Close/MultiFix (regulations)³. 	
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Number
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Date
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Code
XPS10CC/
EPS10CC



BDA Agrément® Nr. BAW 11-304/3

Data Sheet Wall - Design

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Category
Specific

Phase
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Subject
Insulated cavity
closer for walls

Points of attention (continued)

Table 1 – Minimum thermal resistance of Path 2 (shortest path) - Standard
The declared minimum thermal resistance for the defined cavity closer is 0,93 (XPS) or 0,88 (EPS).

Figure	Path	Distance mm	Material	Thermal conductivity (W.m ⁻¹ .K ⁻¹)	Thermal resistance (m ² .K.W ⁻¹)			
					100 mm cavity XPS	100 mm cavity EPS	150 mm cavity XPS	150 mm cavity EPS
	A - B ¹	1,6	U - PVC	0,170	0,009	0,009	0,009	0,009
	B ¹ - C ¹	29,0	XPS or EPS	0,032 or 0,034	0,906	0,853	0,906	0,853
	C ¹ - E	1,0	U - PVC	0,170	0,006	0,006	0,006	0,006
	E - F	1,6	U - PVC	0,170	0,009	0,009	0,009	0,009
R _{min} =					0,930	0,877	0,930	0,877

Table 2 – Minimum thermal resistance of Path 2 (shortest path) – Checked-reveal
The declared minimum thermal resistance for the defined cavity closer is 2,18 (XPS) or 2,05 (EPS).

Figure	Path	Distance mm	Material	Thermal conductivity (W.m ⁻¹ .K ⁻¹)	Thermal resistance (m ² .K.W ⁻¹)			
					100 mm cavity XPS	100 mm cavity EPS	150 mm cavity XPS	150 mm cavity EPS
	A - B ¹	1,6	U - PVC	0,170	0,009	0,009	0,009	0,009
	B ¹ - C ¹	69,0	XPS or EPS	0,032 or 0,034	2,156	2,029	2,156	2,029
	C ¹ - E	1,0	U - PVC	0,170	0,006	0,006	0,006	0,006
	E - F	1,6	U - PVC	0,170	0,009	0,009	0,009	0,009
R _{min} =					2,180	2,053	2,180	2,053

Figure	Path	Distance mm	Material	Thermal conductivity (W.m ⁻¹ .K ⁻¹)	Thermal resistance (m ² .K.W ⁻¹)	
					XPS	EPS
	A - B ¹	1,6	U - PVC	0,170	0,009	0,009
	B ¹ - C ¹	29,0	XPS or EPS	0,032 or 0,034	0,906	0,853
	C ¹ - E	1,0	U - PVC	0,170	0,006	0,006
	E - F	1,6	U - PVC	0,170	0,009	0,009
R _{min} =					0,930	0,877


Table 3
Minimum thermal resistance of Path 2 (shortest path) - Standard
The declared minimum thermal resistance for the defined cavity closer is 0,93 (XPS) or 0,88 (EPS).

Figure	Path	Distance mm	Material	Thermal conductivity (W.m ⁻¹ .K ⁻¹)	Thermal resistance (m ² .K.W ⁻¹)	
					XPS	EPS
	A - B ¹	1,6	U - PVC	0,170	0,009	0,009
	B ¹ - C ¹	49,0	XPS or EPS	0,032 or 0,034	1,531	1,441
	C ¹ - E	1,0	U - PVC	0,170	0,006	0,006
	E - F	1,6	U - PVC	0,170	0,009	0,009
R _{min} =					1,555	1,465

Table 4
Minimum thermal resistance of Path 2 (shortest path) – Checked-reveal
The declared minimum thermal resistance for the defined cavity closer is 1,56 (XPS) or 1,47 (EPS).

Version
03

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Date 2011.03.15		Phase Installation
Code XPS10CC/ EPS10CC		Subject Insulated cavity closer for walls
Product Supplier Description Scope (objective) Frame of reference Product characteristics Points of attention Installation procedure	<p>Easi-Close/MultiFix</p> <p>Yorkshire Building Services (Whitwell) Ltd. The Craggs Industrial Park Morven Street UK-S80 4AJ Creswell Derbyshire T.: +44 (0) 844 9910044, F.: +44 (0) 844 9910055 E.: technical@ybsinsulation.com, I.: www.ybsinsulation.com</p> <p>PVC cavity closer, to be built in at the construction stage. The connected extruded polystyrene (XPS) or expanded polystyrene (EPS) core can be cut to fit any cavity up to 150 mm.</p> <p>Cavity closure to provide a damp-proof barrier and thermal insulation as installed around masonry external cavity wall opening provisions such as windows and door sets, including checked and rebated reveals.</p> <ol style="list-style-type: none"> Directive BDA Agréments, September 2010 BDA Agrément® Nr. BAW 11-304/3 Easi-Close/MultiFix (design) BDA Agrément® Nr. BAW 11-306/3 Easi-Close/MultiFix (regulations) BS 5250: 2002 <i>Code of practice for control of condensation in buildings</i> BDA report 0312-L-06/1 <i>Styrisol Determination of the thermal performance (EN 12667), 2008.02.18</i> BBA Agrément Certificate No 91/2568:2008 <i>Springvale Floorshield Insulation</i> EN 12667:2001-02 <i>Thermal performance of building materials and products – Determination of thermal resistance by means of guarded hot plate and heat flow meter methods – Products of high and medium thermal resistance</i> BS-EN 13164:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification</i> BS-EN 13163:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of expanded polystyrene foam (EPS) - Specification</i> BS 5628:Part 3:2001 <i>Code of practice for the use of masonry. Materials and components, design and workmanship</i> BS 6203:2003 <i>Guide to fire characteristics and fire performance of expanded polystyrene materials (EPS and XPS) used in building applications</i> BS 8000: Part 3:2001 <i>Workmanship on building sites: code of practice for masonry</i> EN 14188-2:2004 <i>Joint fillers and sealants. Specifications for cold applied sealants</i> BRE Information Paper IP 8/08:2008 <i>Determining the minimum thermal resistance of cavity closers</i> <ul style="list-style-type: none"> profiles : continuous rigid PVC-U extrusions infill : Styrisol (XPS8) or Springvale (EPS9) thermal conductivity (λ_{10}) XPS5 : 0,032 (W.m⁻¹.K⁻¹) EPS6 : 0,034 (W.m⁻¹.K⁻¹) nominal length : 2,4 (m) nominal width : infill can be cut to fit any cavity up to 150 (mm) <ol style="list-style-type: none"> The cavity closers are delivered to site wrapped in polyethylene film, supplied with a label marked Easi-Close/MultiFix, the date of manufacture, dimensions, the number of closers in the wrap, the identity code of the packer and an instruction leaflet, the BDA identification mark and the number of this Agrément. Wall integrity The Easi-Close/MultiFix cavity closers must be either friction fitted into the cavity of the external wall at the point of closure, at a sill or threshold or installed into the cavity as it is raised. The load imposed on and by the wall must be transferred directly to the main structure. Specifically the lintel shall not bear directly onto the closer. The cavity closer shall be continuously supported. The cavity width shall be between 30 mm and 150 mm. See also figures 1 and 2 in this Agrément. <ol style="list-style-type: none"> Storage and Handling <ul style="list-style-type: none"> The plastic wrapped cavity closers must be stored on a firm, level and dry base, stacked near to horizontal, away from excessive heat, no more than ten high and be fully supported so that they do not distort by twisting or bowing. For additional weather protection, black polyethylene sheeting or similar opaque material should be used if the cavity closers are to be stored outside for a period of seven days or more. <p>The cavity closers are easily handled on site and they may be readily cut or trimmed with a fine toothed saw, should this be necessary. To prevent inhalation of sawn particles all relevant health and safety precautions shall be observed. Reasonable precautions should be taken to prevent damage to the closers before, during, or subsequent to installation. The XPS or EPS infill should be protected from weather. In particular, closers should not be exposed to an open flame, or other ignition sources. The advice presented in BS 6203:200311 should be followed. They must be handled with care and be secured if outside in windy conditions. They must not be punctured, split, deformed or unduly impacted before use nor must they be directly exposed to any plastics material incorporating plasticizers or to volatile organic solvents.</p> Installation <ul style="list-style-type: none"> Easi-Close/MultiFix cavity closers must be installed in accordance with the relevant requirements of the manufacturer's installation instructions. Easi-Close/MultiFix cavity closers must be fitted into the cavity of the external wall at the point of closure, at a sill or threshold or installed into the cavity as it is raised. The closers must be square and plumb and tight with either leaf, but the leaves must not exert pressure such that they distort the closers. The completed cavity surface of any cavity wall, within which the cavity closers are to be installed, must be adequately smooth, flat and true in accordance with the appropriate Clause of BS 5628: Part 3¹⁰. The deviation in plane should be not greater than 5 mm under a 3 m straight steel edge, and the wall must be constructed in accordance with BS 5628: part 3 and BS 8000: Part 3: 2001¹². The work should be so programmed that the cavity closers are left exposed for the minimum time. The cavity closers must not be in direct contact with hot pipes or exposed top continuous working temperatures in excess of 75 °C. The cavity closers must be separated from any subsequent not applied materials, such as asphalt, by a timber batten, or similar, barrier. 	
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Number BAW 11-305/3	 <p>BDA Agrément® Nr. BAW 11-304/3</p> <p>Data Sheet Wall - Design</p> <p>Testing accreditation RvA L 447 (acknowledged by UKAS)</p> <p>To check the validity of this document please consult www.bda.nl</p>	Category Specific
Date 2011.03.15		Phase Installation
Code XPS10CC/ EPS10CC		Subject Insulated cavity closer for walls

Installation procedure (continued)

- Where it is intended to make the external perimeter joint between the outer masonry leaf and the completed window or door set, weather tight this must be achieved by sealing it with a proprietary neutral curing silicone sealant to EN 14188-2:2004¹³ backed, if the joint gap is open at the back, with polyethylene foam backing rod or a PVC flexible foam tape. The instructions of the sealant manufacturer must be followed, in particular regarding the need for any prior cleaning of the surfaces or for the use of a suitable primer. In Scotland, Northern Ireland and areas of very severe exposure, where checked reveals are typically used, these joints must be sealed.
- The internal reveal must be dry lined on plaster dabs to mask the insulation clip or internal leaf extrusion, and not plastered (see figures 1 and 2 of this Agrément).

3. Maintenance

No maintenance of the cavity closers is necessary provided that they remain installed strictly in accordance with the requirements of this Agrément and of the manufacturer.

4. Building Regulations

Further information on regulations is given in BDA Agrément® Nr. BAW 11-306/3 Easi-Close/MultiFix (regulations)³.

Figure 1 - Positioning of Easi-Close/MultiFix in standard cavity construction

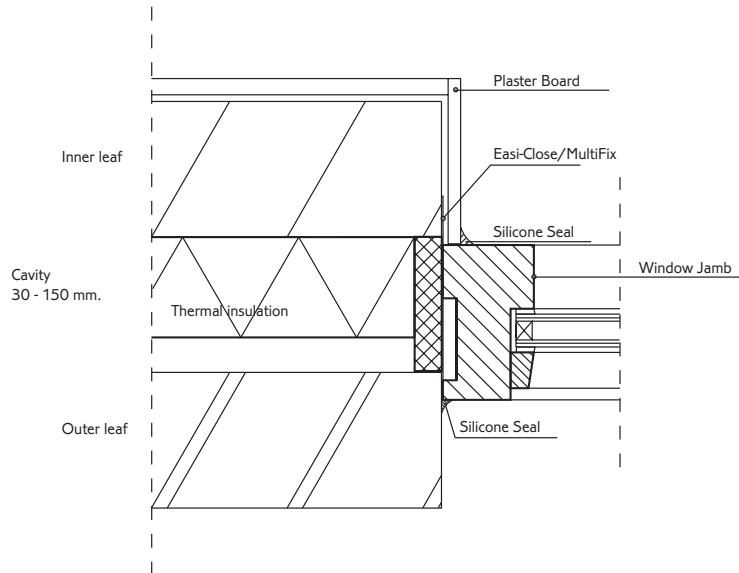
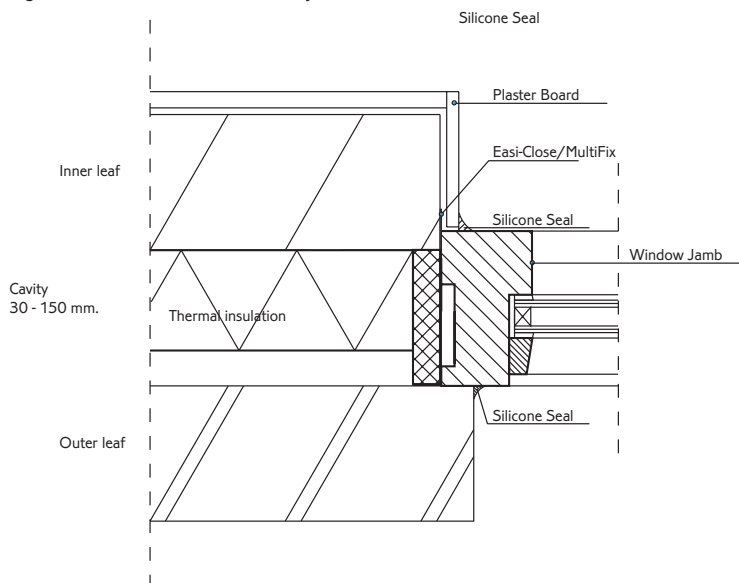



Figure 2 - Positioning of Easi-Close/MultiFix in cavity construction with checked reveal



Number BAW 11-306/3	 <p style="text-align: center;">BDA Agrément® Nr. BAW 11-306/3</p> <p style="text-align: center;">Data Sheet Wall – Regulations</p> <p style="text-align: center;">Testing accreditation RvA L 447 (acknowledged by UKAS)</p> <p style="text-align: center;">To check the validity of this document please consult www.bda.nl</p>	Category Specific											
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BAW 11-305/3 Easi-Close/MultiFix (installation) BS 5250: 2002 <i>Code of practice for control of condensation in buildings</i> BDA report 0312-L-06/1 Styrisol: <i>determination of the thermal performance (EN 12667), 2008.02.18</i> BBA Agrément Certificate No 91/2568:2008 <i>Springvale Floorshield Insulation</i> EN 12667:2001-02 <i>Thermal performance of building materials and products – Determination of thermal resistance by means of guarded hot plate and heat flow meter methods – Products of high and medium thermal resistance</i> BS-EN 13164:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification</i> BS-EN 13163:2001/A1:2004 <i>Thermal insulation products for buildings - Factory made products of expanded polystyrene foam (EPS) - Specification</i> BS 5628:Part 3:2001 <i>Code of practice for the use of masonry. 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Requirements: The Building Regulations (England and Wales) (as amended)</p> <ul style="list-style-type: none"> B3(4) Internal fire spread (structure) – There are no requirements for fire resisting cavity closers around window openings in masonry wall constructions of two leaves of brick or concrete each at least 75 mm thick (see Approved Document B Diagram 32). C2 Resistance to weather and ground moisture – the cavity closers can adequately resist the passage of moisture to the underlying structure, provided the wall is constructed in accordance with BS 5628:Part 3: 2001¹⁰ and the requirements of BDA Agrément® nr. 11-305/3 Easi-Close/MultiFix (installation)³. Advice is given in Approved Document C supporting these Regulations. J3 Protection of the building from heat-producing appliances – in order to comply with this Regulation the cavity closers must be adequately separated or shielded from a chimney, flue, fireplace recess, heat-producing appliance or hearth. The separations recommended, where appropriate, are detailed in Approved Document J supporting these Regulations, to which reference must be made. L1 Conservation of fuel and power – the edges of an opening in a wall, formed using the cavity closers, can be designed and constructed to provide an adequate thermal resistance and no undue condensation risk, interposed at the point of closer between the inner and outer external wall leaves, as calculated in Robust Constructions Details¹¹. Regulation 7 Materials and workmanship – Easi-Close/MultiFix cavity closers are manufactured from suitably safe and durable materials for their application and can be installed to give a satisfactory performance. <p>2. Requirements: The Building (Scotland) Regulations (as amended)</p> <p>2.1 Regulations 8 (1) Durability of materials and workmanship</p> <ul style="list-style-type: none"> Easi-Close/MultiFix cavity closers are manufactured from acceptable materials and are considered to be adequately resistant to deterioration and wear under normal service conditions, provided they are installed in accordance with the requirements of BDA Agrément® nr. 11-305/3 Easi-Close/MultiFix (installation)³. <p>2.2 Regulation 9 Building Standards Construction</p> <p>Section 2 Fire</p> <ul style="list-style-type: none"> 2.4 Cavities – Easi-Close/MultiFix closure meet the “short fire resistance”(E30) requirements for cavity closers around window opening (see 2.4.1) in respect to masonry cavity walls. It is assumed that any lintel over the top of the opening will provide adequate fire protection. <p>Section 3 Environment</p> <ul style="list-style-type: none"> 3.10 Precipitation – The cavity closers are resistant to the passage of water, but they must be continuous with any adjacent damp-proof membrane. 3.15 Condensation – the edges of openings in a wall, formed using the cavity closers in accordance with the requirements of this certificate and of BS 5250: 2002⁴, can be designed and constructed to comply with these Standards. 3.17 Combustion appliance installations generally – A wall, incorporating the cavity closers can be designed and constructed to comply with these Standards, provided that they are isolated from the flue of a gas-fired, or solid fuel, or oil-fired heat-producing appliance by a separation. They must be adequately separated from a fire place opening, recess, hearth or flue pipe, or from any heat-producing appliance. 	• profiles	: continuous rigid PVC-U extrusions	• infill	: Styrisol (XPS ⁸) or Springvale (EPS ⁹)	• thermal conductivity (λ_{10}) XPS ⁵	: 0,032 (W.m ⁻¹ .K ⁻¹)	EPS ⁶	: 0,034 (W.m ⁻¹ .K ⁻¹)	• nominal length	: 2,4 (m)	• nominal width	: infill can be cut to fit any cavity up to 150 (mm)
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Code XPS10CC/ EPS10CC		Subject Insulated cavity closer for walls
Regulations (continued)	<p>Section 6 Energy</p> <ul style="list-style-type: none"> - 6.2.1 Conservation of fuel and power: the building fabric – external cavity incorporating the Easi-Close/MultiFix cavity closers interposed at the point of closer between the inner and outer external wall leaves, can be designed and constructed to provide a U-value of less than $0,27 \text{ W.m}^{-2}.\text{K}^{-1}$. - 6.2.4. Limiting the effect of thermal bridging at junctions and around openings. The infill insulation assists in reducing the effect of thermal bridging by reducing local potential paths of high heat loss. <p>3. Requirements: The Building Regulations (Northern Ireland) (as amended)</p> <ul style="list-style-type: none"> - B2 Fitness of materials and workmanship – Easi-Close/MultiFix cavity closers are manufactured from materials which are considered to be suitably safe and acceptable for use as cavity closers for an external wall. - C4 Resistance to ground moisture and weather – where the cavity closers are installed within an external cavity wall, that wall can be designed and constructed so as to prevent the passage of moisture or moisture or water vapour through it. Advice is given in ref. 3. - C5 Condensation - the edges of openings in a wall, built using the cavity closers in accordance with the requirements of ref. 3 and BS 5250:2002⁴, can be designed and constructed to prevent any harmful effect from moisture in the form of interstitial condensation. - E6 Internal fire spread: structure – There are no requirements for fire resisting cavity closers around window openings in masonry wall constructions (see D.6.8a and D.10.2). - F2 Building Fabric – External walls, incorporating the Easi-Close/Multifix cavity closers interposed at the point of closer between the inner and outer external wall leaves, can be designed and constructed to provide a U-value no greater than $0.3 \text{ W.m}^{-2}.\text{K}^{-1}$. - L2 Heat-producing appliances and associated constructions – a wall, incorporating the cavity closers can be designed and constructed to comply with these Regulations, provided that they are isolated from the flue of a gas-fired, or solid fuel of oil-fired heat-producing appliance or an incinerator. They must be adequately separated from a chimney or fireplace recess, from a flue pipe, from a hearth or from the appliance. 	
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		Page 2 of 2 pages