


<b>Number</b> BPD 08-304	 <p style="text-align: center;"><b>BDA Agrément Nr. BPD 08-304</b></p> <p style="text-align: center;"><b>Data Sheet Wall - Design</b></p> <p style="text-align: center;">To check the validity of this document please consult <a href="http://www.bda.nl">www.bda.nl</a></p>	<b>Category</b> Specific
<b>Date</b> 2008.09.14		<b>Phase</b> Design
<b>Code</b> XPS10CC		<b>Subject</b> Insulated cavity closer for walls
<b>Product</b>  <b>Supplier</b>  <b>Description</b>  <b>Scope (objective)</b>  <b>Frame of reference</b>  <b>Product characteristics</b>  <b>Points of attention</b>	<p><b>Easi-Close</b></p> <p>Yorkshire Building Services (Whitwell) Ltd. The Craggs Industrial Park Morven Street UK-S80 4AJ Creswell Derbyshire T.: +44 (0) 1909 721662, F.: +44 (0) 1909 721442 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) core can be cut to fit any cavity up to 100mm.</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 doorsets, including checked and rebated reveals.</p> <ol style="list-style-type: none"> <li>Directive BDA Agréments (Praktijkbladen), September 2008</li> <li>BDA Agrément Nr. BPD 08-305 Easi-Close (phase: installation)</li> <li>BDA Agrément Nr. BPD 08-306 Easi-Close (phase: regulations)</li> <li>BS 5250: 2002 Code of practice for control of condensation in buildings</li> <li>BDA report 0312-L-06/1 Styrisol: determination of the thermal performance (EN 12667), 2008.02.18</li> <li>EN 12667:2001-02 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</li> <li>BS-EN 13164:2001/A1:2004 Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification</li> <li>EN 1027:2000 Windows and doors - Watertightness - Test method</li> <li>Robust Construction Details:2001 Limiting thermal bridging and air leakage</li> <li>EN-ISO 6946:2008 Building components and building elements. Thermal resistance and thermal transmittance. Calculation method</li> </ol> <ul style="list-style-type: none"> <li>profiles : continuous rigid PVC-U extrusions</li> <li>infill : Styrisol (XPS to ref. 6)</li> <li>thermal conductivity XPS <math>\gamma_{10}</math> : 0,0315 (W.m<sup>-1</sup>.K<sup>-1</sup>)</li> <li>nominal length : 2,4 (m)</li> <li>nominal width : XPS infill can be cut to fit any cavity up to 100 (mm)</li> </ul> <ol style="list-style-type: none"> <li>The cavity closers are delivered to site wrapped in polyethylene film, supplied with a label marked Easi-Close, 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.</li> <li><b>Wall integrity</b> The Easi-Close 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 100 mm. See also figures 1 and 2 in BDA Agrément Nr. BPD 08-305 Easi-Close (phase: installation, ref. 2).</li> <li><b>Weathertightness</b> The use of Easi-Close 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.</li> <li><b>Thermal performance aspects</b> <ul style="list-style-type: none"> <li>The minimum thermal resistance has been calculated for the minimum path as defined in ref. 9. The calculated results, as given in tables 1 and 2 for 100 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. BPD 08-305 Easi-Close (phase: installation).</li> <li>The inserted XPS 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.</li> <li>All of the calculated results are greater than the minimum requirement of 0,45 m<sup>2</sup>.K.W<sup>-1</sup>, therefore the product conforms with the requirements of Robust Construction Details (ref. 9).</li> <li>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 Standards J) and Northern Ireland (Technical Booklet F).</li> <li>Typical window and doorsets details are given in BDA Agrément Nr. BPD 08-305 Easi-Close (phase: installation).</li> </ul> </li> <li><b>Behaviour in relation to fire</b> <ul style="list-style-type: none"> <li>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).</li> <li>Since the product is combustible, it shall be adequately separated or shielded from heat-producing appliances, incinerators, hearths, fire backs, ash pit surrounds, duct-work for high temperature gasses, flues, chimneys and fire places or recesses.</li> </ul> </li> <li><b>Durability</b> 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. BPD 08-305 Easi-Close (phase: installation).</li> <li><b>Building Regulations</b> Further information on regulations is given in BDA Agrément Nr. BPD 08-306 Easi-Close (phase: regulations, ref. 3).</li> </ol>	
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# BDA Agrément Nr. BPD 08-304

## Data Sheet Wall - Design

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**Category**  
Specific

**Phase**  
Design

**Subject**  
Insulated cavity  
closer for walls

**Points of attention**  
(continued)

Table 1-Total thermal resistance of 100 mm cavity with Easi-Close – Standard

Figure	Path	Distance (mm)	Material	Thermal Conductivity (W.m <sup>-1</sup> .K <sup>-1</sup> )	Thermal Resistance (m <sup>2</sup> .K.W <sup>-1</sup> )
	A-B	13	Plasterboard	0,25	0,052
	B-C	5	Air space	0,045	0,111
	C-D	1	PVC-u	0,17	0,006
	D-E	29	Extruded Polystyrene (XPS)	0,0315	0,921
	E-F	1	PVC-u	0,17	0,006
	F-G	40	External Brick	0,77	0,052
R <sub>min</sub> =					1,15

Table 2-Total thermal resistance of 100 mm cavity with Easi-Close – Check-reveal

Figure	Path	Distance (mm)	Material	Thermal Conductivity (W.m <sup>-1</sup> .K <sup>-1</sup> )	Thermal Resistance (m <sup>2</sup> .K.W <sup>-1</sup> )
	A-B	13	Plasterboard	0,25	0,052
	B-C	5	Air space	0,045	0,111
	C-D	1	PVC-u	0,17	0,006
	D-E	69	Extruded Polystyrene (XPS)	0,0315	2,190
	E-F	1	PVC-u	0,17	0,006
	F-G	11	External Brick	0,77	0,014
R <sub>min</sub> =					2,38


Table 3-Total thermal resistance of 50 mm cavity with Easi-Close – Standard


Figure	Path	Distance (mm)	Material	Thermal Conductivity (W.m <sup>-1</sup> .K <sup>-1</sup> )	Thermal Resistance (m <sup>2</sup> .K.W <sup>-1</sup> )
	A-B	13	Plasterboard	0,25	0,052
	B-C	5	Air space	0,045	0,111
	C-D	1	PVC-u	0,17	0,006
	D-E	29	Extruded Polystyrene (XPS)	0,0315	0,921
	E-F	1	PVC-u	0,17	0,006
	F-G	40	External Brick	0,77	0,052
R <sub>min</sub> =					1,15

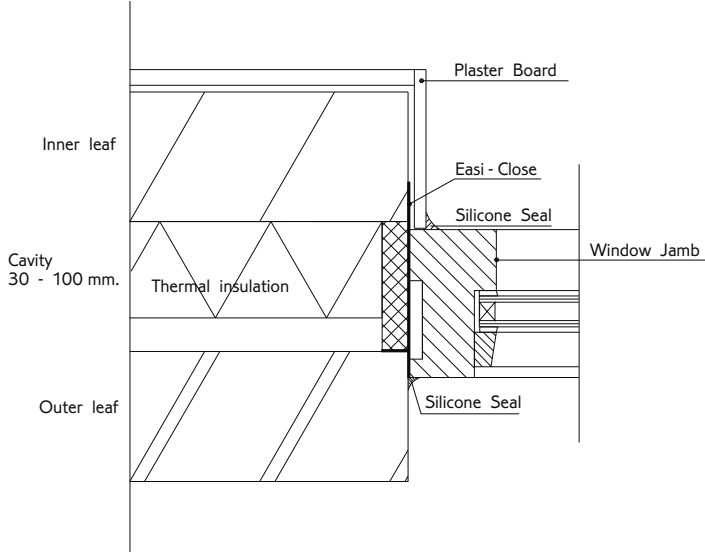
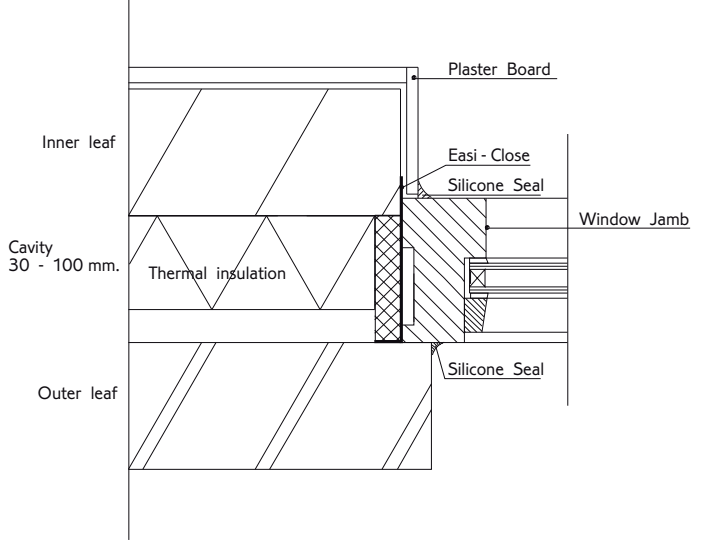
Table 4-Total thermal resistance of 50 mm cavity with Easi-Close – Check-reveal


Figure	Path	Distance (mm)	Material	Thermal Conductivity (W.m <sup>-1</sup> .K <sup>-1</sup> )	Thermal Resistance (m <sup>2</sup> .K.W <sup>-1</sup> )
	A-B	13	Plasterboard	0,25	0,052
	B-C	5	Air space	0,045	0,111
	C-D	1	PVC-u	0,17	0,006
	D-E	19	Internal Brick	0,77	0,025
	E-F	50	Extruded Polystyrene (XPS)	0,0315	1,587
	F-G	1	PVC-u	0,17	0,006
	G-H	11	External Brick	0,77	0,014
R <sub>min</sub> =					1,80


**Version**  
01

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BPD 08-306 Easi-Close (phase: regulations)</li> <li>BS 5250: 2002 Code of practice for control of condensation in buildings</li> <li>BDA report 0312-L-06/1 Styrisol: determination of the thermal performance (EN 12667), 2008.02.18</li> <li>EN 12667:2001-02 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</li> <li>BS-EN 13164:2001/A1:2004 Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification</li> <li>BS 5628:Part 3:2001 Code of practice for the use of masonry. Materials and components, design and workmanship</li> <li>BS 6203:2003 Guide to fire characteristics and fire performance of expanded polystyrene materials (EPS and XPS) used in building applications</li> <li>BS 8000: Part 3:2001 Workmanship on building sites: code of practice for masonry</li> <li>EN 14188-2:2004 Joint fillers and sealants. Specifications for cold applied sealants</li> </ol> <p><b>Product characteristics</b></p> <ul style="list-style-type: none"> <li>profiles : continuous rigid PVC-U extrusions</li> <li>infill : Styrisol (XPS to ref. 6)</li> <li>thermal conductivity XPS <math>\gamma_{10}</math> : 0,0315 (W.m<sup>-1</sup>.K<sup>-1</sup>)</li> <li>nominal length : 2,4 (m)</li> <li>nominal width : XPS infill can be cut to fit any cavity up to 100 (mm)</li> </ul> <p><b>Points of attention</b></p> <ol style="list-style-type: none"> <li>The cavity closers are delivered to site wrapped in polyethylene film, supplied with a label marked Easi-Close, 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.</li> <li><b>Wall integrity</b> The Easi-Close 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 100 mm. See also figures 1 and 2 in this Agrément.</li> <li><b>Storage and Handling</b> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> <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 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 6203:2003 (ref. 9) 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> </li> <li><b>Installation</b> <ul style="list-style-type: none"> <li>Easi-Close cavity closers must be installed in accordance with the relevant requirements of the manufacturer's installation instructions.</li> <li>Easi-close 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 3 (ref. 8). 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: 2001 (ref. 10).</li> <li>The work should be so programmed that the cavity closers are left exposed for the minimum time.</li> <li>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.</li> </ul> </li> </ol>	
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<b>Number</b> BPD 08-305	<div style="text-align: center;">  <h2 style="margin: 0;">BDA Agrément Nr. BPD 08-305</h2> <h3 style="margin: 0;">Data Sheet Wall - Installation</h3> <p style="margin: 0;">To check the validity of this document please consult <a href="http://www.bda.nl">www.bda.nl</a></p> </div>	<b>Category</b> Specific
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<b>Points of attention (continued)</b>	<ul style="list-style-type: none"> <li>- Where it is intended to make the external perimeter joint between the outer masonry leaf and the completed window, or doorset, weathertight this must be achieved by sealing it with a proprietary neutral curing silicone sealant to EN 14188-2:2004 (ref. 11) 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.</li> <li>- 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).</li> </ul> <p>3. <b>Maintenance</b> 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.</p> <p>4. <b>Building Regulations</b> Further information on regulations is given in BDA Agrément Nr. BPD 08-306 Easi-Close (phase: regulations, ref.3).</p> <p>Figure 1 - Positioning of Easi-Close in standard cavity construction</p>  <p>Figure 2 - Positioning of Easi-Close in cavity construction with check reveal</p> 
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<b>Product</b>  <b>Supplier</b>  <b>Description</b>  <b>Scope (objective)</b>  <b>Frame of reference</b>  <b>Product characteristics</b>  <b>Regulations</b>	<p><b>Easi-Close</b></p> <p>Yorkshire Building Services (Whitwell) Ltd. The Craggs Industrial Park Morven Street UK-S80 4AJ Creswell Derbyshire T.: +44 (0) 1909 721662, F.: +44 (0) 1909 721442 E.: <a href="mailto:technical@ybsinsulation.com">technical@ybsinsulation.com</a>, I.: <a href="http://www.ybsinsulation.com">www.ybsinsulation.com</a></p> <p>PVC cavity closer, to be built in at the construction stage. The connected extruded polystyrene (XPS) core can be cut to fit any cavity up to 100mm.</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 doorsets, including checked and rebated reveals.</p> <ol style="list-style-type: none"> <li>Directive BDA Agréments (Praktijkbladen), September 2008</li> <li>BDA Agrément Nr. 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Advice is given in Approved Document C supporting these Regulations.</li> <li>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.</li> <li>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 Construction Details (ref. 9).</li> <li>Regulation 7 Materials and workmanship – Easi-Close cavity closers are manufactured from suitably safe and durable materials for their application and can be installed to give a satisfactory performance.</li> </ul> </li> <li><b>Requirements: The Building (Scotland) Regulations 2004</b> <ol style="list-style-type: none"> <li><b>Regulations 8 (1) Durability of materials and workmanship</b> <ul style="list-style-type: none"> <li>Easi-Close 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. 8-305 Easi-Close (phase: installation, ref. 3).</li> </ul> </li> <li><b>Regulation 9 Building Standards Construction</b> <p>Section 2 Fire</p> <ul style="list-style-type: none"> <li>2.4 Cavities – Easi-Close 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.</li> </ul> <p>Section 3 Environment</p> <ul style="list-style-type: none"> <li>3.10 Precipitation – The cavity closers are resistant to the passage of water, but they must be continuous with any adjacent dampproof membrane.</li> <li>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: 2002 (ref. 4), can be designed and constructed to comply with these Standards.</li> <li>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.</li> </ul> </li> </ol> </li> </ol>	
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<b>Date</b> 2008.09.14		<b>Phase</b> Regulations
<b>Code</b> XPS10CC		<b>Subject</b> Insulated cavity closer for walls
<b>Regulations (continued)</b>	<p>Section 6 Energy</p> <ul style="list-style-type: none"> <li>- 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.</li> </ul> <p>3. <b>Requirements: The Building Regulations (Northern Ireland) 2000</b></p> <ul style="list-style-type: none"> <li>- B2 Fitness of materials and workmanship - Easi-Close cavity closers are manufactured from materials which are considered to be suitably safe and acceptable for use as cavity closers for an external wall.</li> <li>- 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.</li> <li>- 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: 2002, can be designed and constructed to prevent any harmful effect from moisture in the form of interstitial condensation.</li> <li>- E6 Internal fire spread: structure - There are no requirements for fire resisting cavity closers around window openings in masonry wall constructions (see D6.8a and D.10.2).</li> <li>- F2 Building Fabric - External walls, incorporating the 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 <math>0.3 \text{ W.m}^2.\text{K}^{-1}</math>.</li> <li>- 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 or 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.</li> </ul>	
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