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Agrément Certificate 11/4834 Product Sheet 1

SIG CAVITY WALL INSULATION

SIG

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to SIG Cavity Wall Insulation, a granulated glass mineral wool fibre material injected in loose form, for use in masonry walls up to and including 12 m in height, with nominal cavity widths not less than 50 mm, in new and existing domestic and non-domestic buildings.

AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Practicability of installation — the product must only be installed by trained and approved installers (see section 5). **Thermal performance** — the product has a thermal conductivity* ($\lambda_{90/90}$ value) of 0.040 W·m⁻¹·K⁻¹ (see section 6). **Rain penetration** — the product will resist the transfer of precipitation to the inner leaf via the insulation (see section 7). **Condensation** — the product will contribute to limiting the risk of condensation (see section 8).

Behaviour in relation to fire — the product is classified as non-combustible (see section 9).

Durability — the product is durable, rot-proof, water resistant and sufficiently stable to remain effective as an insulation for the life of the building (see section 11).

The BBA has awarded this Agrément Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 18 October 2012

Leán MoriArty.

Sean Moriarty - Head of Approvals

nA Gener

Greg Cooper Chief Executive

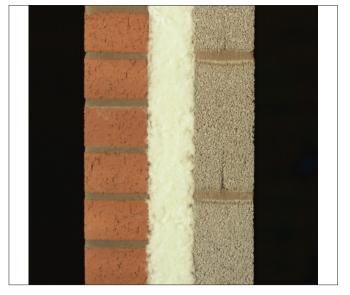
Originally certificated on 13 June 2011

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Energy and Ventilation

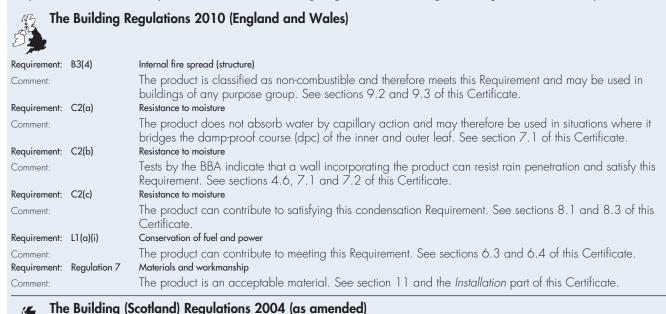
Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Regulations

In the opinion of the BBA, SIG Cavity Wall Insulation, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):



Regulation: 8(1) Fitness and durability of materials and workmanship The product can contribute to a construction satisfying this Regulation. See section 11 and the Installation Comment: part of this Certificate. Regulation: 9 Building standards - construction Standard: 24 Cavities Cavity barriers are not required provided all of the cavity is filled, with reference to clauses $2.4.1^{(1)(2)}$ and Comment: 2.4.2⁽¹⁾⁽²⁾. See section 9.5 of this Certificate. Standard: 2.6 Spread to neighbouring buildings The product is classified as non-combustible and may be used in domestic and non-domestic buildings, Comment: with reference to clauses 2.6.5⁽¹⁾ and 2.6.6⁽²⁾. See sections 9.2, 9.3 and 9.5 of this Certificate. Standard: 34 Moisture from the ground The product can contribute to a construction satisfying this Standard, with reference to clause 3.4.1⁽¹⁾⁽²⁾. Comment: The product can be used in situations where it bridges the dpc of the inner and outer leaf. See section 7.1 of this Certificate. Standard: 3.10 Precipitation The product will resist water transfer and may contribute to a wall satisfying this Standard, with reference Comment: to clause 3.10.1⁽¹⁾⁽²⁾ provided it complies with the conditions set out in sections 4.6, 7.1 and 7.2 of this Certificate. 3.15 Condensation Standard: The product can satisfy, or contribute to satisfying this Standard, with reference to clauses 3.15.1⁽¹⁾⁽²⁾, Comment: 3.15.4⁽¹⁾⁽²⁾ and 3.15.5⁽¹⁾⁽²⁾. See sections 8.2 and 8.3 of this Certificate. Carbon dioxide emissions Standard: 6.1(b) Standard: 62 Building insulation envelope The product can contribute to satisfying clauses, or parts of 6.1.6⁽¹⁾, 6.2.1⁽¹⁾⁽²⁾, 6.2.3⁽¹⁾, 6.2.4⁽²⁾, 6.2.5⁽²⁾, Comment: $6.2.6^{(1)}$, $6.2.7^{(1)}$, $6.2.8^{(1)(2)}$, $6.2.9^{(1)(2)}$, $6.2.10^{(1)(2)}$, $6.2.11^{(1)(2)}$, $6.2.12^{(2)}$ and $6.2.13^{(1)(2)}$ of these Standards. See sections 6.3 and 6.4 of this Certificate. Standard: 7.1(a)(b) Statement of sustainability Comment: The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard. In addition the product can contribute to a construction meeting a higher level of sustainability as defined in this Standard, with reference to clauses 7.1.4⁽¹⁾⁽²⁾ Aspects 1⁽¹⁾⁽²⁾ and 2⁽¹⁾, 7.1.6⁽¹⁾⁽²⁾ Aspects 1⁽¹⁾⁽²⁾ and 2⁽¹⁾ and 7.1.7⁽¹⁾⁽²⁾ Aspect 1⁽¹⁾⁽²⁾. See section 6.3 of this Certificate. 12 Building standards - conversions Regulation: Comments made in relation to the product under Regulation 9 Standards 1 to 6 also apply to this Comment Regulation, with reference to clause $0.12.1^{(1)(2)}$ and Schedule $6^{(1)(2)}$. (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).

The state of the s	e Building R	Regulations (Northern Ireland) 2000 (as amended)
Regulation:	B2	Fitness of materials and workmanship
Comment: Regulation:	C4(a)	The product is an acceptable material. See section 11 and the <i>Installation</i> part of this Certificate. Resistance to ground moisture and weather
Comment:		The product does not absorb water by capillary action and may therefore be used in situations where it bridges the dpc of the inner and outer leaf. See section 7.1 of this Certificate.
Regulation:	C4(b)	Resistance to ground moisture and weather
Comment:		Walls incorporating the product can satisfy this Regulation. See sections 4.6, 7.1 and 7.2 of this Certificate.
Regulation:	C5	Condensation
Comment: Regulation:	E4(4)	The product will contribute to meeting this Regulation. See section 8.3 of this Certificate. Internal fire spread — Structure
Comment:		The product is classified as non-combustible and may be used in buildings of any purpose group. See sections 9.2 and 9.3 of this Certificate.
Regulation:	F2(a)(i)	Conservation measures
Regulation:	F3(2)	Target carbon dioxide Emissions Rate
Comment:		The product can contribute to satisfying these Regulations. See sections 6.3 and 6.4 of this Certificate

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

3 Delivery and site handling (3.1 and 3.3) and 13 Site preparation (13.2) of this Certificate.

Additional Information

NHBC Standards 2011

NHBC accepts the use of SIG Cavity Wall Insulation, when installed and used in accordance with this Certificate, in relation to NHBC Standards, Chapter 6.1 External masonry walls.

CE marking

See sections:

The Manufacturer has taken the responsibility of CE marking the products in association with harmonised standard BS EN 14064-1 : 2010. An asterisk (*) appearing in this Certificate indicates that data shown is given in the manufacturer's Declaration of Performance.

Technical Specification

1 Description

1.1 SIG Cavity Wall Insulation consists of granulated glass mineral wool fibres, treated with an inert water repellent during manufacture and complies with the requirements of BS EN 14064-1 : 2010.

1.2 The length of the fibres and degree of granulation are subject to regular quality control checks by the manufacturer.

1.3 The target mean density of this product when installed is 18 kg·m⁻³ over the entire installation. Individual areas within the wall must not have an absolute density variation of more than ± 5 kg·m⁻³ from the target mean density when measured over an area of 0.5 m².

2 Manufacture

2.1 Molten glass is spun into fibres through holes in rotating dishes. Silicone oil is applied to the fibres from spray nozzles.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

3 Delivery and site handling

3.1 The product is delivered to site in polythene wrapped bales weighing approximately 17.6 kg, which should not be opened until required for use. The bales are marked with the BBA identification mark incorporating the number of this Certificate.

3.2 It is essential that the product is stored such that it is raised off the ground, is inside or under cover on a flat, dry, level surface in a well-ventilated area. The product must be protected from rain, snow and prolonged exposure to sunlight. Nothing should be stored on top of product.

3.3 The product must not be exposed to a naked flame or other ignition sources. The product must not be exposed to solvents or other chemicals.

3.4 If the product has been allowed to get wet, it must not be used.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on SIG Cavity Wall Insulation.

Design Considerations

4 General

4.1 SIG Cavity Wall Insulation, is effective in reducing the thermal transmittance (U value) of external cavity walls, with masonry inner and outer leaves (where masonry includes clay and calcium silicate bricks, concrete blocks, natural and reconstituted stone blocks). It is essential that such walls are designed and constructed to incorporate the precautions given in this Certificate to prevent moisture penetration.

4.2 This Certificate covers the use of the product in any exposure zone, subject to the following conditions being met.

- 4.3 The following design conditions are particularly important in areas subject to severe or very severe driving rain:
- the cavity width to be filled must be a nominal minimum of 50 mm
- walls must be in a good state of repair and must show no evidence of frost damage
- mortar joints must not show evidence of more than hairline cracking. Raked or recessed mortar joints should be avoided in high exposure areas.

Partial filling

4.4 Whenever practicable, all of the cavity space from ground level to the roof or gable copings should be filled. Partial filling is allowed only:

- when separately insulating semi-detached or terraced properties. The cavity barrier used for this purpose is retained in the cavity and must be of a type approved by the BBA. Further details are available from the BBA or the approved installer
- up to the underside of a horizontal boundary, other than the roof, where that horizontal boundary is protected by a cavity tray or similar waterproof barrier
- where filling is carried out above a horizontal boundary. It must be demonstrated that the horizontal boundary is not damaged or displaced
- when treating properties where the wall to be insulated is below a waterproof cladding (eg tile hung) and this cladding either extends up to the roof or is protected at the top by other means (eg window sills).

Existing buildings

4.5 In an existing building, the product may be installed only:

- where there are no signs of dampness on the inner face of the cavity wall, other than those caused solely by condensation, and
- where the cavity is not being used as a source of combustion air or as a flue for ventilation purposes.

New buildings

4.6 New buildings subject to the national Building Regulations should be constructed in accordance with the relevant recommendations of:

- BS 5628-3 : 2005, with particular reference to Clause 5.5 *Exclusion of water*
- BS 8000-3 : 2001
- BS EN 1996-1-1: 2005, BS EN 1996-1-2: 2005, BS EN 1996-2: 2006 and BS EN 1996-3: 2006 and their UK National Annexes.

4.7 Other new buildings not subject to regulatory requirements should also be built in accordance with the Standards identified in section 4.6.

4.8 As with any other form of cavity wall insulation, where buildings need to comply with *NHBC Standards* 2011, specifiers should observe the requirements of that document.

4.9 In a new building where the product is to be installed:

- cavity battens or boards must be used to reduce the amount of mortar droppings left in the cavity
- injection of the product is to be left until the cavity is sealed from the weather, ie the roof is in place and the window and door openings are sealed.

5 Practicability of installation

The product should only be installed by installers who have been trained and approved by the Certificate holder (see section 14).

6 Thermal performance

6.1 Calculations of the thermal transmittance (U value) of specific cavity wall constructions should be carried out in accordance with BS EN ISO 6946 : 2007 and BRE Report (BR 443 : 2006) *Conventions for U-value calculations*, using the declared thermal conductivity* ($\lambda_{90/90}$ value) of 0.040 W·m⁻¹·K⁻¹ for the cavity insulation.

6.2 The U value of a typical brick and block cavity wall construction will depend on the cavity width and the insulating value of the internal block leaf and finish. Example U values are given in Table 1 for existing buildings and Table 2 for new buildings.

Table T Example cavity wall U values $(W \cdot m^{-2} \cdot K^{-1})^{(1)}$ — Existing buildings					
Cavity width	Construction				
(mm)	13 mm dense plaster 100 mm dense block ⁽²⁾	Plasterboard on dabs 100 mm AAC block ⁽³⁾			
50	0.60	0.42			
75	0.44	0.33			
100	0.34	0.27			
125	0.28	0.23			

(1) Assumes fixings correction Δ $U_{\rm f}$ <3% of nominal U value and 102 mm thick brick outer leaf.

(2) Block and plaster thermal conductivity 1.13 W·m⁻¹·K⁻¹ and 0.57 W·m⁻¹·K⁻¹ respectively.

(3) Block and mortar thermal conductivity 0.12 W·m⁻¹·K⁻¹ and 0.88 W·m⁻¹·K⁻¹ respectively.

U value requirement $(W \cdot m^{-2} \cdot K^{-1})$	ulation thickness ⁽²⁾ m)	
	13 mm dense plaster 100 mm dense block ⁽³⁾	Plasterboard on dabs 100 mm AAC block ⁽⁴⁾
0.19	190	160
0.25	145	115
0.26	135	105
0.27	130	100
0.30	115	90
0.35	100	70

Table 2 Example cavity wall U values⁽¹⁾ – New buildings

(1) Assumes fixings correction Δ U_f <3% of nominal U value and 102 mm thick brick outer leaf.

(2) Nearest available typical cavity width required to meet U value requirement.

(3) Block and plaster thermal conductivity 1.13 W·m⁻¹·K⁻¹ and 0.57 W·m⁻¹·K⁻¹ respectively.

(4) Block and mortar thermal conductivity 0.12 W $\cdot m^{-1} \cdot K^{-1}$ and 0.88 W $\cdot m^{-1} \cdot K^{-1}$ respectively.

6.3	When	considering in	nsulation requirem	ents, desig	gners should	refer to the	e detailed (guidance c	contained in the
Cert	ificate)	indicate that th	national Building ne product can en	iable a wo	all to achieve	e typical de	esign U val	ues referre	d to in those
	docum						-		

6.4 The product can maintain, or contribute to maintaining, continuity of thermal insulation at junctions between elements and openings. For Accredited Construction Details the corresponding psi values in BRE Information Paper IP 1/06 Assessing the effects of thermal bridging at junctions and around openings, Table 3 may be used in carbon emission calculations in Scotland and Northern Ireland. Detailed guidance for other junctions and on limiting heat loss by air infiltration can be found in:

England and Wales — Approved Documents to Part L and for new thermal elements to existing buildings, Accredited Construction Details (version 1.0). See also SAP 2009 *The Government's Standard Assessment Procedure for Energy Rating of Dwellings*, Appendix K and the iSBEM User Manual for new-build

Scotland – Accredited Construction Details (Scotland)

Northern Ireland — Accredited Construction Details (version 1.0).

7 Rain penetration

1. When the product is used in situations where it bridges the dpc in walls, dampness from the ground will not pass through to the inner leaf provided the wall is detailed in accordance with the requirements and provisions of the national Building Regulations:

England and Wales — Approved Document C, section 5

Scotland – Mandatory Standard 3.4, clause 3.4.1⁽¹⁾⁽²⁾

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

Northern Ireland – Technical Booklet C, Section 1.6.

7.2 Tests for full fill applications confirm that constructions built in accordance with BS 5628-3 : 2005 will prevent water reaching the inner leaf. Water penetrating the outer leaf of the wall, will drain down the cavity face of the outer leaf and the product will contribute to satisfying the national Building Regulations:

England and Wales — Approved Document C, Section 5

Scotland – Mandatory Standard 3.10, clause 3.10.1⁽¹⁾⁽²⁾

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

Northern Ireland — Technical Booklet C, Section 2.

8 Condensation

Surface condensation

😰 8.1 Walls will limit the risk of surface condensation adequately when the thermal transmittance (U value) does not exceed 0.7 W·m⁻²·K⁻¹ at any point and the junctions with floors, roofs and openings are designed in accordance with Limiting thermal bridging and air leakage : Robust construction details for dwellings and similar buildings TSO 2002, IP 1/06 or section 6.4 of this Certificate.

🐲 8.2 For buildings in Scotland, constructions will be acceptable where the thermal transmittance (U value) of the 3-wall does not exceed 1.2 W·m⁻²·K⁻¹ at any point and openings and junctions with other elements comply with the guidance given in BS 5250 : 2011, Annex G, BRE Report (BR 262 : 2002) Thermal insulation : avoiding risks and section 6.4.

Interstitial condensation



8.3 Walls will limit the risk of interstitial condensation adequately when they are designed and constructed in accordance with BS 5250 : 2011, Annexes D and G and the relevant guidance.

9 Behaviour in relation to fire

9.1 The product does not prejudice the fire resistance properties of the wall or constitute a toxic hazard in fire.



🖢 9.2 The product fire classification is Class A1 (non-combustible), and contains less than 1% organic material, when tested to BS EN 13820 : 2003.

9.3 The product may be used as described in the national Building Regulations:

England and Wales and Northern Ireland — in buildings of every purpose group

Scotland — in domestic and non-domestic buildings.

9.4 The requirements of the Building Regulations relating to fire spread in cavity walls can be met in buildings of all purpose groups without the need for cavity barriers, provided the construction complies with the provisions detailed in:

England and Wales — Approved Document B, Volume 1, Diagram 13 and Volume 2, Diagram 34

Northern Ireland — Technical Booklet E, Diagram 3.5.

9.5 For buildings subject to the Building Standards in Scotland, cavity barriers are not required to limit the area 3, of a cavity or at junctions with other wall cavities, but cavity barriers are required around openings, penetrations Sof a cavity or at junctions with other cavities, with reference to clauses $2.4.1^{(1)(2)}$, $2.4.2^{(1)(2)}$, $2.6.5^{(1)}$ and $2.6.6^{(2)}$.

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).

9.6 For constructions not covered by sections 9.4 and 9.5, cavity barriers must be provided to comply with: **England and Wales** — Approved Document B, Volume 1, Section 6 and Volume 2, Section 9

Scotland – Mandatory Standards 2.4 and 2.6, clauses 2.4.1⁽¹⁾⁽²⁾, 2.4.2⁽¹⁾⁽²⁾, 2.6.0⁽¹⁾⁽²⁾, 2.6.5⁽¹⁾ and 2.6.6⁽²⁾

- (1) Technical Handbook (Domestic).
- (2) Technical Handbook (Non-Domestic).

Northern Ireland — Technical Booklet E, paragraphs 3.35 to 3.38.

10 Maintenance

As the product is confined within the wall cavity and it has suitable durability (see section 11), maintenance is not required.

11 Durability



The product is durable, rot-proof and water resistant and sufficiently stable to remain effective as an insulation for the life of the building.

Installation

12 Site survey

Prior to installation, a survey is carried out by a trained surveyor to ascertain the suitability of the property or properties for SIG Cavity Wall Insulation. A complete survey report is prepared and held at the installer's offices. Particular problems are specifically identified and any reasons for rejection of the work noted.

13 Site preparation

13.1 The installing operative ensures that the property has been correctly surveyed and is suitable for installing the product. The installation should cease if problems are encountered during drilling which prevent compliance with this Certificate.

13.2 Essential ventilation openings, such as those providing combustion air or underfloor ventilation, and all flues in the cavity wall must be checked to ensure adequate sleeving or other cavity closures are present, otherwise installation must not proceed until these openings have been sleeved or otherwise modified to prevent blockage by the product.

13.3 All uncapped cavity walls must be sealed prior to installation.

14 Approved installers

Installation of the product is carried out by the Certificate holder and their approved installers; an approved installer being a company:

- required to satisfy an initial site installation check by the BBA prior to approval by the Certificate holder and is subject to the BBA Assessment and Surveillance Scheme for Installation of Cavity Wall Insulation
- approved by the Certificate holder and the BBA to install the product
- undertaken to comply with the Certificate holder's installation procedure
- employing operatives who have been issued with appropriate identity cards by the Certificate holder; at least one member of each installation team must carry a card
- subject to supervision by the Certificate holder, including unannounced site inspections.

15 Supervision

15.1 Installation of the product should be carried out in accordance with the BBA Assessment and Surveillance Scheme for Installation of Cavity Wall Insulation.

15.2 During installation the following checks shall be made, as an aid to determining that the installation conforms to the certificated method:

- the pattern of holes complies with the description given in section 16.4
- the injection of the material takes place at each hole, to complete the filling of the cavity space.

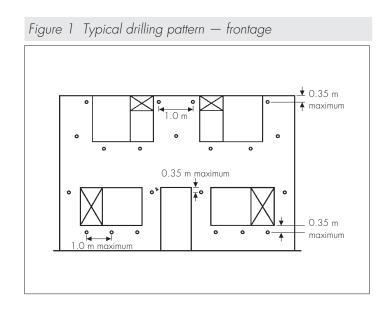
16 Procedure

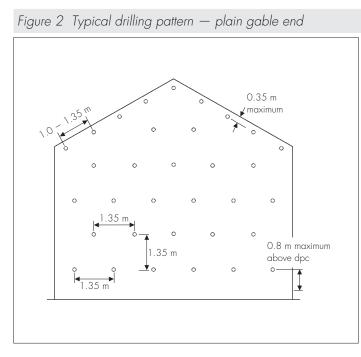
16.1 The installation of the product is undertaken using blowing machines approved by the BBA, and marked with the appropriate BBA Certificate number.

16.2 The installer provides all necessary hoses, drilling tools, equipment and materials for making good the walls after the installation of the product.

16.3 Where a semi-detached or terraced property is to be insulated, a cavity brush is inserted at the line dividing the properties to contain the insulation.

16.4 Holes of 22 mm or 25 mm in diameter to suit the diameter of the injection nozzle used (see section 16.6) are drilled in a diamond pattern at approximately 1.35 m centres. The topmost injection holes should not be more than 350 mm below the top of the cavity and not more than 1.0 m apart. The bottom row of holes should start approximately 800 mm above dpc level. Additional holes may be required to ensure complete filling around building features, eg under window sills around air bricks in column areas between doors and windows, at the tops of walls and under gables. Again, the topmost holes should not be more than 1.0 m apart under the horizontal boundaries and 1.35 m apart under the sloping boundary at the top of the gable end (see Figures 1 and 2).





16.5 To prevent debris falling onto the insulation, filling the cavity should not start until one elevation and at least 2 m of the adjoining elevations are drilled out. The adjoining elevation is filled only after completing the drilling.

16.6 The product is blown into the cavity under pressure through 22 mm or 25 mm clearance holes via a flexible pipe, fitted with either a 22 mm or 25 mm outside diameter injection nozzle, depending on the type of machine used. Filling proceeds from the bottom to the top of the walls and from one end of an elevation to the other.

16.7 After injection of the product, the drill holes are fully filled with mortar of a similar colour, texture and weathertightness as the existing wall. Where a wall requires a high degree of colour matching, the level of finish matching should be agreed in writing during the site assessment. All the trunked air vents are checked, eg, those providing underfloor ventilation and combustion air for heating appliances. In all cases, flues are carefully checked on completion of the installation by means of an appropriate test (eg, a smoke test) to ensure that they are not obstructed by the insulant.

Omitted areas

16.8 In some circumstances access for drilling injection holes and filling with insulation may be limited by certain features, for example; carport, conservatories, cladding or tiling. The practicability of safely accessing and making good these areas, or installing the insulation through the inner leaf, may outweigh the benefits of insulating these areas.

16.9 It is permissible to omit such areas only when:

- a full justification detailing the reasons to omit areas is included in the survey report
- the assessor should explain that heat loss through uninsulated areas will not be reduced and they will also be subject to a slightly higher risk of condensation. The assessor obtains written consent for omitting any areas of the wall from the party commissioning the work.

Technical Investigations

17 Tests

17.1 Tests were carried out on SIG Cavity Wall Insulation by the BBA in accordance with BS EN 14064 -1 : 2010 to determine:

- thermal conductivity to BS EN 12667 : 2001
- short term water absorption by partial immersion to BS EN 1609 : 1997.

17.2 Tests were also carried out to determine:

- the water resistance of a cavity wall filled with the insulant
- adequacy of fill using specified installation machinery and drilling pattern.

18 Investigations

The manufacturing process of the granulated glass mineral wool fibre material was examined, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

Bibliography

BS 5250 : 2011 Code of practice for control of condensation in buildings

BS 5628-3 : 2005 Code of practice for the use of masonry – Materials and components, design and workmanship

BS 8000-3 : 2001 Workmanship on building sites - Code of practice for masonry

BS EN 1609 : 1997 Thermal insulating products for building applications — Determination of dimensional short term water absorption by partial immersion

BS EN 1996-1-1 : 2005 Eurocode 6 : Design of masonry structures — General rules for reinforced and unreinforced masonry structures

NA to BS EN 1996-1-1 : 2005 UK National Annex to Eurocode 6 : Design of masonry structures — General rules for reinforced and unreinforced masonry structures

BS EN 1996-1-2 : 2005 Eurocode 6 : Design of masonry structures — General rules — Structural fire design

NA to BS EN 1996-1-2 : 2005 UK National Annex to Eurocode 6 : Design of masonry structures — General rules — Structural fire design

BS EN 1996-2 : 2006 Eurocode 6 : Design of masonry structures — Design considerations, selection of materials and execution of masonry

NA to BS EN 1996-2 : 2006 UK National Annex to Eurocode 6 : Design of masonry structures — Design considerations, selection of materials and execution of masonry

BS EN 1996-3 : 2006 Eurocode 6 : Design of masonry structures — Simplified calculation methods for unreinforced masonry structures

NA to BS EN 1996-3 : 2006 UK National Annex to Eurocode 6 : Design of masonry structures — Simplified calculation methods for unreinforced masonry structures

BS EN 12667 : 2001 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

BS EN 13820 : 2003 Thermal insulating materials for building applications – Determination of organic content

BS EN 14064-1 : 2010 Thermal insulation products for buildings — In-situ formed loose-fill mineral wool (MW) products — Specification for the loose-fill products before insulation

BS EN ISO 6946 : 2007 Building components and building elements — Thermal resistance and thermal transmittance — Calculation method

19 Conditions

19.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

19.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

19.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

19.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

19.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

19.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/ system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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