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POLTERM MAX PLUS

POLTERM MAX PLUS FOR USE IN TIMBER OR STEEL FRAME CONSTRUCTIONS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Polterm Max Plus for use in Timber or Steel Frame Constructions, a mineral wool insulation slab for use as thermal insulation on new and existing conventional timber- or steel-frame walls. The product is used as an insulated sheathing in domestic and non-domestic buildings with a masonry outer leaf.

(1) Hereinafter referred to as 'Certificate'.

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

Thermal performance — the product has a declared thermal conductivity (λ_D) of 0.035 W·m⁻¹·K⁻¹ (see section 6).

Condensation risk — the product can contribute to limiting the risk of condensation (see section 7).

Behaviour in relation to fire — the product is classified as Class A1 in accordance with BS EN 13501-1: 2007 (see section 8).

Durability — the product will have a life equivalent to that of the wall structure in which it is incorporated (see section 11).

The BBA has awarded this 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: 24 June 2019

John Albon Chief Scientific Officer Claire Curtis. Monas. Claire Curtis-Thomas

Chief Executive

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 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. Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

British Board of Agrément Bucknalls Lane Watford Herts WD25 9BA

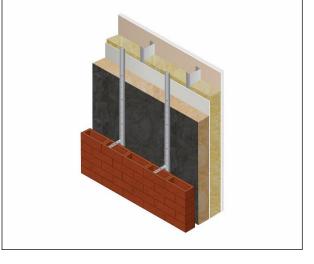
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©2019 Page 1 of 13

TESTING CERTIFICATION Agrément Certificate 19/5672

Product Sheet 2







Regulations

In the opinion of the BBA, Polterm Max Plus for use in Timber or Steel Frame Constructions, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying 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):

	The Building Regulations 2010 (England and Wales) (as amended)			
Requirement: Comment:	B3(1)(4)	Internal fire spread (structure) The use of the product is unrestricted by this Requirement. See section 8 of this Certificate.		
Requirement: Comment:	B4(1)	External fire spread In England, the use of the product is unrestricted by this Requirement. See section 8 of this Certificate.		
Requirement: Comment:	C2(c)	Resistance to moisture The product can contribute to satisfying this Requirement. See sections 7.1 and 7.5 of this Certificate.		
Requirement: Comment:	L1(a)(i)	Conservation of fuel and power The product can contribute to satisfying this Requirement. See section 6 of this Certificate.		
Regulation: Regulation: Comment:	7 7(1)	Materials and workmanship (applicable to Wales only) Materials and workmanship (applicable to England only) The product is acceptable. See section 11 and the <i>Installation</i> part of this Certificate		
Regulation: Comment:	7(2)	Materials and workmanship (applicable to England only) The product is unrestricted by this Regulation. See section 8 of this Certificate.		
Regulation: Regulation: Regulation: Regulation: Comment:	26 26A 26A 26B	CO ₂ emission rates for new buildings Fabric energy efficiency rates for new dwellings (applicable to England only) Primary energy consumption rates for new buildings (applicable to Wales only) Fabric performance values for new dwellings (applicable to Wales only) The product can contribute to satisfying these Regulations, but compensating fabric and/or services measures may need to be taken. See section 6 of this Certificate.		

	The Building (Scotland) Regulations 2004 (as amended)			
Regulation:	8(1)	Durability, workmanship and fitness of materials		
Comment:		The product is acceptable. See section 11 and the <i>Installation</i> part of this Certificate.		
Regulation:	9	Building standards applicable to construction		
Standard:	2.4	Cavities		
Standard:	2.6	Spread to neighbouring buildings		
Comment:		The use of the product is unrestricted by these Standards with reference to clauses $2.4.4^{(1)}$, $2.4.6^{(2)}$, $2.6.5^{(1)}$ and $2.6.6^{(2)}$. See section 8 of this Certificate.		
Standard:	3.15	Condensation		
Comment:		The product can contribute to satisfying this Standard, with reference to clauses $3.15.1^{(1)(2)}$, $3.15.4^{(1)(2)}$ and $3.15.5^{(1)(2)}$. See sections 7.1 and 7.6 of this Certificate.		

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Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

See section: 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2019

In the opinion of the BBA, subject to a 50 mm minimum residual cavity being maintained, NHBC accepts the use of Polterm Max Plus for use in Timber or Steel Frame Constructions, provided it is installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Chapters 6.2 *External timber framed walls* and 6.10 *Light steel framed walls and floors*.

CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard BS EN 13162 : 2012. An asterisk (*) appearing in this Certificate indicates that data shown are given in the manufacturer's Declaration of Performance.

Technical Specification

1 Description

1.1 Polterm Max Plus for use in Timber or Steel Frame Constructions comprises slabs of rigid stone mineral wool (MW) treated with a water-repellent additive with a black glass tissue facer on one face. The slabs have the nominal characteristics shown in Table 1.

Table 1 Nominal characteristics			
Length (mm)	1200		
Width (mm)	600		
Thickness (mm) ⁽¹⁾	50, 60, 75, 80, 100, 120, 125, 150, 160, 180, 200		
Edge profile	Square		
(1) Other slab thicknesses within the above range are available on request.			

1.2 Ancillary items for use with the product, but outside the scope of the Certificate:

- insulation fasteners/fixings
- sheathing and lining board
- breather membranes
- vapour control layer (vcl).

2 Manufacture

2.1 Raw materials, mixed to a controlled formulation, are melted in a furnace to produce molten stone. Stone fibres are produced from the molten stone using a rotary spinning process. The fibres are treated with a resin and formed into a continuous length of insulation to the required thickness. The insulation then passes into an oven which cures the resin. The insulation is then cut to the required dimensions to form the slabs.

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.

2.3 The management systems of Saint-Gobain Construction Products Polska sp. z o.o. have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 and BS EN ISO 14001 : 2015 by SGS (Certificates PL 18/0695 and PL 18/0696 respectively).

3 Delivery and site handling

3.1 Slabs are delivered to site compression-wrapped in polythene. Each pack carries a label bearing the Certificate holder's name, product description and the BBA logo incorporating the number of this Certificate.

3.2 The slabs should be stored clear of the ground, on a clean, level surface, and preferably under cover to protect them from prolonged exposure to moisture or mechanical damage.

3.3 It is recommended that dust masks, gloves and long-sleeved clothing are worn when cutting and handling the slab.

3.4 Damaged, contaminated or wet slabs must not be used.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Polterm Max Plus for use in Timber or Steel Frame Constructions.

Design Considerations

4 Use

4.1 Polterm Max Plus for use in Timber or Steel Frame Constructions is effective for use as a partial fill cavity wall insulation in reducing the U value (thermal transmittance) of external walls of timber- or steel-frame buildings. It is essential that such walls are designed and constructed to incorporate the normal precautions against moisture ingress, including the use of a breather membrane over the timber sheathing in framing board applications.

4.2 As with other forms of cavity wall insulation, where buildings need to comply with *NHBC Standards* 2019, specifiers should observe the requirements of that document.

4.3 Buildings subject to the national Building Regulations should be designed and constructed in accordance with the relevant recommendations of:

- BS EN 1993-1-2 : 2005, 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 respective UK National Annexes
- BS EN 845-1 : 2013 and BS 8000-3 : 2001.

4.4 New buildings not subject to these Regulations should also be built in accordance with the Standards given in section 4.3 of this Certificate.

4.5 Wall ties and fixings to BS EN 845-1 : 2013 should be used for structural stability in accordance with BS EN 1996-1-1 : 2005 and BS EN 1996-2 : 2006.

4.6 Services which penetrate the dry lining (eg light switches and power outlets) must be kept to a minimum to limit damage to vapour checks. In addition, to preserve the fire resistance of the wall, any penetrations should be enclosed in plasterboard, stone mineral wool or a suitably tested proprietary fire-rated system.

4.7 This application requires a vapour control layer (vcl) behind the internal finish, which should be a minimum thickness of 0.125 mm (500 gauge) polyethylene, or plasterboard backed with a vapour control membrane or similar.

4.8 Care must be taken in the overall design and construction of walls incorporating the product to ensure the provision of appropriate:

- cavity trays and damp-proof courses (dpc)
- cavity barriers and fire dampers
- resistance to the ingress of precipitation, moisture and dangerous gases from the ground
- resistance to sound transmission when flanking separating walls and floors.

4.9 The use of cavity battens or boards is strongly recommended to prevent thermal bridging by mortar droppings.

Buildings up to and including 25 metres high

4.10 The residual cavity width to be maintained during construction is 50 mm. This may reduce to 25 mm in isolated areas due to individual construction features (a minimum of 50 mm residual cavity width is required by the NHBC). This may be achieved by designing a cavity width which takes into account the dimensional tolerances of the components which make up the wall (by reference to the British Standards relating to the bricks, blocks and slabs), or by using the data from the respective manufacturers. Allowances may need to be made for the quality of building operatives and

the degree of site supervision or control available, and for the limitations in respect of exposure of the proposed building (as set out in Table 2).

Construction	Maximum allowable exposure factor $E^{(1)}$
All external masonry walls protected by: rendering (to BS EN 13914-1 : 2016), tile/slate hanging, or timber, plastic or metal weatherboarding or cladding	No restriction
One or more external masonry walls constructed from facing clay brickwork or natural stone (the porosity of which exceeds 20% by volume). Mortar joints must be flush-pointed or weatherstruck	100
One or more external masonry walls constructed from calcium silicate bricks, concrete blocks, reconstituted stone, or natural stone (the porosity of which is less than 20% by volume), or any material with raked mortar joints	88

(1) To BS 5618 : 1985.

4.11 From ground level, the maximum height of continuous cavity walls must not exceed 12 metres; above 12 metres, the maximum height of continuous cavity walls must not exceed 7 metres. In both cases, breaks should be in the form of continuous horizontal cavity trays and weepholes discharging to the outside.

4.12 An external render coat or other suitable finish should be applied in locations where such application would be normal practice; care should be taken to ensure that the residual cavity is not bridged by mortar.

Buildings over 25 metres in height

4.13 The width of the residual clear cavity to be achieved is a minimum of 50 mm, and the following additional requirements apply:

- the specifier must take extra care when detailing to ensure that the introduction of the insulation does not affect the weather resistance of the wall. Above average site supervision is recommended during installation of the products
- where, for structural reasons, the cavity width is reduced (eg by the intrusion of ring beams), a minimum residual cavity width of 25 mm must be maintained and extra care must be taken with fixings and weatherproofing (eg the inclusion of cavity trays with weepholes).

5 Practicability of installation

The product is designed to be installed by a competent general builder, or a contractor, experienced with this type of product.

6 Thermal performance



6.1 Calculations of the thermal transmittance (U value) should be carried out in accordance with BS EN ISO 6946 : 2017 and BRE Report BR 443 : 2006, using the insulation's declared thermal conductivity* (λ_D) of 0.035 W·m⁻¹·K⁻¹.

6.2 The U value of a completed wall construction will depend on the insulation thickness, number and type of fixings, the insulating value of the substrate and its internal finish. Calculated U values for example constructions are given in Tables 3 and 4.

Table 3 Example U values — timber frame⁽¹⁾⁽²⁾

U value (W·m ⁻² ·K ⁻¹)	Polterm Max Plus thickness (clear 140 mm timber frame) (mm) ⁽³⁾	Polterm Max Plus thickness (fully filled 140 mm timber frame) (mm) ⁽⁴⁾
0.18	180	75
0.19	160	60
0.25	120	50
0.26	120	50
0.27	100	50
0.28	100	O ⁽⁵⁾
0.30	100	0 (5)
0.35	75	0 (5)

(1) Construction, external to internal, comprises:

102.5 mm brick (λ = 0.77 W·m⁻¹·K⁻¹), 50 mm clear cavity, Isover Polterm Max Plus, breather membrane, 9 mm OSB (oriented strand board) sheathing board (λ = 0.13 W·m⁻¹·K⁻¹), 140 mm timber frame (15% fraction), vcl and 15 mm plasterboard (λ = 0.25 W·m⁻¹·K⁻¹).

(2) Calculations based upon 4.4 stainless steel cavity wall ties per m² (6.6 mm² cross-sectional area, $\lambda = 17 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$). (3) Insulation installed against the sheathing board with no insulation in the timber frame.

(4) Insulation installed against the sheathing board with 140 mm of insulation in the timber frame (λ = 0.035 W·m⁻¹·K⁻¹) with a 15% timber frame fraction.

(5) Achieves the U value without Polterm Max Plus insulation.

Table 4 E	xample U	values —	steel	frame ⁽¹⁾⁽²⁾
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U value (W·m ⁻² ·K ⁻¹)	Polterm Max Plus thickness (clear 90 mm steel frame) (mm) ⁽³⁾	Polterm Max Plus thickness (fully filled 90 mm steel frame) (mm) ⁽⁴⁾
0.18	180	120
0.19	160	120
0.25	120	75
0.26	120	60
0.27	100	60
0.28	100	50
0.30	100	50
0.35	75	50

(1) Construction, external to internal, comprises:

102.5 mm brick (λ = 0.77 W·m⁻¹·K⁻¹), 50 mm clear cavity, Isover Polterm Max Plus, breather membrane, 9 mm OSB sheathing board (λ = 0.13 W·m⁻¹·K⁻¹), 90 mm light steel frame (0.2% fraction), vcl and 15 mm plasterboard (λ = 0.25 W·m⁻¹·K⁻¹).

(2) Calculations based upon 4.4 stainless steel cavity wall ties per m² (6.6 mm² cross-sectional area, λ = 17 W·m⁻¹·K⁻¹).

(3) Insulation installed against the sheathing board with no insulation in the steel frame.

(4) Insulation installed against the sheathing board with 90 mm of insulation in the steel frame (λ = 0.038 W·m⁻¹·K⁻¹) with a 0.2% steel frame fraction.

Junctions

6.3 Care must be taken in the overall design and construction of junctions with other elements and openings to minimise thermal bridges and air infiltration. Detailed guidance can be found in the documents supporting the national Building Regulations.

7 Condensation risk

Interstitial condensation



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

7.2 For the purpose of calculations, the water vapour diffusion resistance factor (μ) of the individual components may be taken as:

- stone mineral wool insulation 1
- glass tissue facer 0.15.

7.3 If the product is to be used on the external walls of rooms expected to have high humidity, care must be taken to provide adequate permanent ventilation to avoid possible problems from the formation of interstitial condensation in the internal wall leaf.

7.4 A vcl should be used in steel and timber constructions, should the condensation risk analysis show this is necessary.

Surface condensation



7.5 Walls will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed 0.7 W·m⁻²·K⁻¹ at any point, and the junctions with other elements are designed in accordance with the guidance referred to in section 6.3 of this Certificate.



7.6 In Scotland, walls will adequately limit the risk of surface condensation when the thermal transmittance (U value) does not exceed 1.2 W·m⁻²·K⁻¹ at any point, and the junctions with other elements are designed in accordance with the guidance referred to in BS 5250 : 2011, Annex G. Further guidance may be obtained from BRE Report BR 262 : 2002 and section 6.3 of this Certificate.

8 Behaviour in relation to fire



The product is classified* as A1 in accordance with BS EN 13501-1 : 2007⁽¹⁾. It is non-combustible in accordance with the national Building Regulations and is not subject to any restriction on building height or proximity to boundaries.

(1) Exova Warrington fire. Report No WF 401343, 25 July 2018. Copies can be obtained from the Certificate holder.

9 Water resistance

9.1 Constructions incorporating the product and built in accordance with the Standards listed in section 4.2, will resist the transfer of precipitation to the inner leaf and satisfy the requirement of the national Building Regulations.

9.2 In all situations, it is particularly important to ensure during installation that:

- wall ties are installed correctly and are thoroughly clean
- excess mortar is cleaned from the cavity face of the brick leaf and any debris removed from the cavity
- mortar droppings are cleaned from the exposed edges of installed slabs
- insulation slabs are properly installed and butt-jointed
- installation is carried out to the highest level on each wall, or the top edge of the insulation is protected by a cavity tray
- at lintel level, a cavity tray, stop ends and weep holes are provided
- cavity battens and/or boards are used during construction to prevent bridging by mortar droppings
- dpc at ground level does not project into the cavity as it can form a trap for mortar bridging
- raked or recessed mortar joints are avoided in very severe exposure areas.

10 Maintenance

As the product is confined between the wall and the cladding and has suitable durability (see section 11), and provided the integrity of the cladding is maintained throughout the life of the system, maintenance is not required.

11 Durability



The product is unaffected by the normal conditions in a wall and is durable, rot proof, water resistant and sufficiently stable to remain effective as insulation for the life of the building.

12 General

12.1 Installation of the product should be in accordance with this Certificate, the Certificate holder's instructions and current good building practice.

12.2 The product can be cut using a fine-toothed saw or sharp knife but care must be taken to prevent damage, particularly to edges.

12.3 Cavity barriers should be provided at the junction of the external wall and roof space.

12.4 It is important to ensure a tight fit between slabs. Trimming must be accurate, to achieve close-butted joints and continuity of insulation.

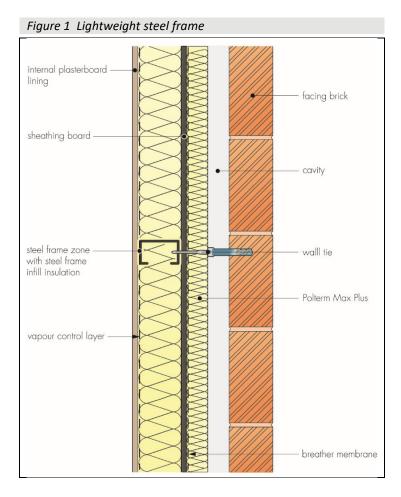
13 Procedure

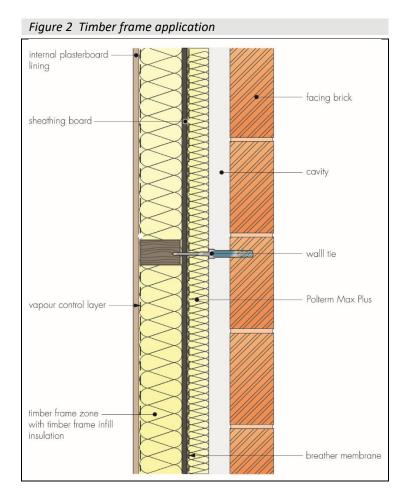
13.1 The product should be applied with the black glass tissue facing outwards.

13.2 Slabs should be close-butted at all vertical and horizontal joints. The horizontal joints of the insulation should be staggered in accordance with good practice.

13.3 The product should be cut and tightly fitted around wall brackets where these occur.

13.4 A vcl is placed between the plasterboard and the timber frame. A breathable membrane is placed between the sheathing board and the product (see Figures 1 and 2).





13.5 The insulation should be installed to coincide with the steel/timber frame, with retaining discs used in conjunction with the wall ties at no more than 600 mm horizontally and 450 mm vertically.

Mortar droppings

13.6 After each section of the leading leaf is built, excess mortar should be removed from the cavity face and mortar droppings cleaned from exposed edges of the installed board, before installation of the next run of boards. Use of a cavity board or a cavity batten will protect the installed board edges and help to keep the cavity clean as the following leaf is built.

Technical Investigations

14 Tests

Results of tests were assessed to determine:

- thermal conductivity
- dimensional stability
- slab dimensions.
- reaction to fire
- short-term water absorption

15 Investigations

15.1 Existing data on durability and properties in relation to fire were evaluated.

15.2 A calculation was undertaken to confirm the declared thermal conductivity (λ_D).

15.3 A series of U value calculations was carried out.

15.4 A condensation risk analysis was carried out.

15.5 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

Bibliography

BS 5250 : 2011 + A1 : 2016 Code of practice for control of condensation in buildings

BS 5618 : 1985 Code of practice for thermal insulation of cavity walls (with masonry or concrete inner and outer leaves) by filling with urea-formaldehyde (UF) foam systems

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

BS EN 845-1 : 2013 + A1 : 2016 Specification for ancillary components for masonry — Wall ties, tension straps, hangers and brackets

BS EN 1993-1-2 : 2005 Eurocode 3 — Design of steel structures — General rules — Structural fire design NA to BS EN 1993-1-2 : 2005 UK National Annex to Eurocode 3 — Design of steel structures — General rules — Structural fire design

BS EN 1996-1-1 : 2005 + A1 : 2012 Eurocode 6: Design of masonry structures — General rules for reinforced and unreinforced masonry structures

NA to BS EN 1996-1-1 : 2005 + A1 : 2012 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 + A1 : 2014 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 13162 : 2012 + A1 : 2015 Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification

BS EN 13501-1 : 2007 + A1 : 2009 Fire classification of construction products and building elements — Classification using test data from reaction to fire tests

BS EN 13914-1 : 2016 Design, preparation and application of external rendering and internal plastering — External rendering

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

BS EN ISO 9001 : 2015 Quality management systems — Requirements

BS EN ISO 14001 : 2015 Environmental management systems — Requirements with guidance for use

BRE Report BR 262 : 2002 Thermal insulation: avoiding risks

BRE Report BR 443 : 2006 Conventions for U-value calculations

16 Conditions

16.1 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.

16.2 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.

16.3 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.

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

16.5 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.

16.6 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.

British Board of Agrément		
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