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Agrément Certificate

91/2638

Product Sheet 2

CATNIC LINTELS

CATNIC EXTERNAL SOLID WALL LINTELS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Catnic External Solid Wall Lintels comprising coated galvanized steel profiles and cavity thermal insulation inserts for use in external solid walls of brickwork and/or blockwork to provide support to walls, floors or roofs above window or door openings.

(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

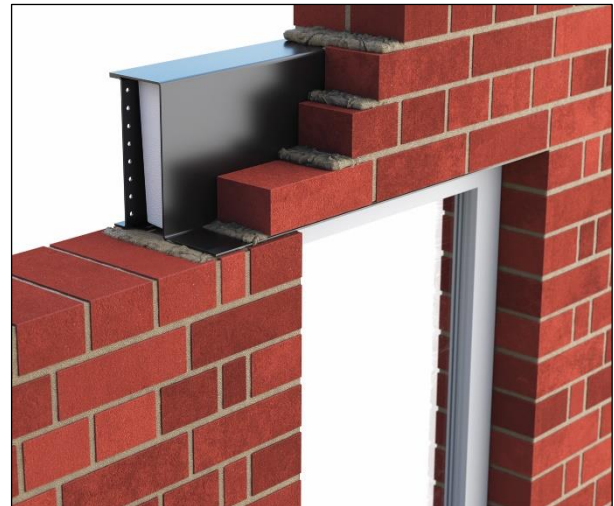
Structural performance — the product is suitable for use in walls with openings between 450 and 4500 mm (clear spans) (see section 6).

Thermal performance — junctions incorporating the product can adequately limit heat loss (see section 8).

Condensation risk — the risk of local surface condensation in junctions incorporating the product can be acceptable (see section 9).

Corrosion protection — the product will have adequate protection against corrosion (see section 10).

Durability — provided that the product is designed, installed and used in accordance with the Certificate, it will have a service life of at least 60 years taking into account the restrictions based on the materials used (see section 12).



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 Second issue: 6 March 2020

Originally certificated on 28 March 1991

Hardy Giesler
Chief Executive Officer

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 MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

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

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Regulations

In the opinion of the BBA, Catnic External Solid Wall Lintels, 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:	A1	Loading
Comment:		The product can contribute to satisfying this Requirement. See sections 6.2 to 6.5 of this Certificate.
Requirement:	B3(1)	Internal fire spread (structure)
Comment:		See section 7.4 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		Junctions incorporating the product can contribute to satisfying this Requirement. See section 9.1 of this Certificate.
Requirement:	L1(a)(i)	Conservation of fuel and power
Comment:		Junctions incorporating the product can adequately limit heat loss. See section 8.1 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See section 12.1 and the <i>Installation</i> part of this Certificate.
Regulation:	7(2)	Materials and workmanship
Comment:		The product is unrestricted by this Regulation. See sections 7.1 to 7.3 of this Certificate.
Regulation:	26	CO₂ emission rates for new buildings
Regulation:	26A	Fabric energy efficiency rates for new dwellings (applicable to England only)
Regulation:	26A	Primary energy consumption rates for new buildings (applicable to Wales only)
Regulation:	26B	Fabric performance values for new dwellings (applicable to Wales only)
Comment:		Junctions incorporating the product can adequately limit heat loss. See sections 8.1 and 9.1 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		The product is acceptable. See section 12.1 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	1.1(a)(b)	Structure
Comment:		The product is acceptable, with reference to clauses 1.1.1 ⁽¹⁾⁽²⁾ and 1.1.2 ⁽¹⁾⁽²⁾ . See sections 6.2 to 6.5 of this Certificate.
Standard:	2.3	Structural protection
Comment:		See sections 7.1, 7.2 and 7.4 of this Certificate, with reference to clauses 2.2.1 ⁽¹⁾⁽²⁾ to 2.2.3 ⁽¹⁾⁽²⁾ .
Standard:	3.15	Condensation
Comment:		Constructions incorporating the product can satisfy this Standard, with reference to clauses 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.4 ⁽¹⁾⁽²⁾ and 3.15.5 ⁽¹⁾⁽²⁾ . See section 9.1 of this Certificate.

Standard:	6.1	Carbon dioxide emissions
Standard:	6.2	Building insulation envelope
Comment:		Junctions incorporating the product can adequately limit heat loss with reference to clauses 6.1.2 ⁽¹⁾ , 6.1.6 ⁽¹⁾ , 6.2.3 ⁽¹⁾ , 6.2.4 ⁽¹⁾ , 6.2.5 ⁽²⁾ , 6.2.6 ⁽²⁾ , 6.2.10 ⁽¹⁾ , 6.2.11 ⁽¹⁾⁽²⁾ , 6.2.12 ⁽²⁾ and 6.2.13 ⁽²⁾ . See section 8.1 of this Certificate.
Standard:	7.1(a)(b)	Statement of sustainability
Comment:		Junctions incorporating the product can contribute to satisfying 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. See section 8.1 of this Certificate.
Regulation:	12	Building standards applicable to conversions
Comment:		All comments given for this product under Regulation 9, Standards 1 to 6, also apply to this 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 Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	23(a)(i)	Fitness of materials and workmanship
Comment:	(ii)(iii)(b)	The product is acceptable. See section 12.1 and the <i>Installation</i> part of this Certificate
Regulation:	30	Stability
Comment:		The product is acceptable. See sections 6.2 to 6.5 of this Certificate.
Regulation:	35(1)	Internal fire spread — Structure
Comment:		The product can be incorporated in a construction satisfying this Regulation. See sections 7.1 to 7.4 of this Certificate.
Regulation:	39(a)(i)	Conservation measures
Regulation:	40(2)	Target carbon dioxide emission rate
Comment:		Junctions incorporating the product can adequately limit heat loss. See section 8.1 of this Certificate.

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 sections: 3 *Delivery and site handling* (3.4) and 14 *General* (14.2) of this Certificate.

Additional Information

NHBC Standards 2020

In the opinion of the BBA, Catnic External Solid Wall Lintels, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 6.1 *External masonry walls*.

CE marking

The Certificate holder has taken the responsibility of CE marking the Catnic External Solid Wall Lintels in accordance with harmonised European Standard BS EN 845-2 : 2013.

Technical Specification

1 Description

1.1 Catnic External Solid Wall Lintels are manufactured from the following components:

- profiles of hot-dipped galvanized steel to BS EN 10346 : 2015 with 275 g·m⁻² zinc coating finished with a black polyester-powder coating 3.5 µm ± 0.5 µm thick (NN104E – Interpon 610), or profiles of stainless steel to BS EN 10088-2 : 2014, with the details shown in Table 1 of this Certificate.
- thermal insulation (expanded polystyrene board to BS EN 13163 : 2012) that fully fills the lintel.

Table 1 Lintel specification

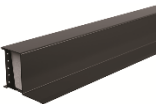


Material	Manufacturing Standard	Grade	Coating type
Hot-dipped galvanized steel ⁽¹⁾	BS EN 10346	DX51D	Z275
		DX51D	Z600
		S250GD	Z600
Stainless steel (304 S15)	BS EN 10088-2	1.4301	–

(1) Minimum yield stress 250 N·mm⁻².

1.2 The lintels are a flush type for standard external solid wall construction, with a plastering key on the appropriate faces.

1.3 The lintels are manufactured in a span range of 750 to 4800 mm, in increments of 150 mm, and are available in the profiles shown in Table 2)

Table 2 External Solid Wall Lintels⁽¹⁾

	Lintel type ⁽²⁾	Base steel thickness (mm)	Back/front steel thickness (mm)	Mass per unit length (kg·m ⁻¹)	Overall height (mm)	Manufactured length (mm)	Clear span (mm)	Minimum end bearing (mm)	Safe working load (kN)
	CN71A	1.6	2	9.3	143	750–1500	450–1200	150	29
						1650–2100	1350–1800	150	27
						2250–2700	1950–2400	150	20
						750–1500	450–1200	150	49
	CN71C	2	3.1	14	143	1650–2100	1350–1800	150	44
						2100–3600	1800–3300	150	29
						2100–2700	1800–2400	150	54
						2850–3300	2550–3000	150	47
	CN81C	2	3.1	17.6	219	3600	3300	150	39
						3900–4575	3600–4275	150	29
						4800	4500	150	26

(1) The lintels can be used on solid wall thicknesses of either 200 or 215 mm.

(2) The Certificate holder can give details of lintel type references and availability

1.4 Other items or components which may be used with the product, but which are outside the scope of this Certificate, are:

- brick or block masonry units⁽¹⁾, to Parts 1 to 6 of BS EN 771 : 2011
- bricklaying mortar⁽¹⁾, to BS EN 998-2 : 2016
- gypsum plasterboard⁽¹⁾ to BS EN 520 : 2004
- gypsum plaster (thistle board finish)⁽¹⁾ to BS EN 13279-1 : 2008

(1) Details of the specifications can be obtained from the Certificate holder.

2 Manufacture

2.1 The product is manufactured from galvanized or stainless steel coil which is slit, perforated if necessary, straightened and cut to length, to provide blanks. The lintel components are formed from these blanks by press-braking or roll-forming. The components are then assembled by spot-welding or press-joining to form the completed lintel, which is finally insulated with expanded polystyrene board to BS EN 13163 : 2012.

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 system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by BSI (Certificate FM14913).

3 Delivery and site handling

3.1 The lintels are delivered in bundles or separately, depending on their size and shape, and strapped together with protective wooden supports between each layer. Each product carries a bar coded label with the manufacturer's name, website details and logo; lintel type, length and weight; and date of manufacture.

3.2 Reasonable care must be taken during unloading, stacking and storage to avoid damaging the lintels. Any lintels that have suffered deformation or damage to their protective coating must not be used. Minor damage to the coating must be repaired by using the same anti-corrosive paint or compatible polyester-resin coating used for treating cut edges, or zinc-rich paint. Cutting must not be undertaken on site.

3.3 The lintels must be stored off the ground to avoid the risk of either mechanical damage or contamination by corrosive substances.

3.4 The lintels may be handled by site personnel or mechanical lifting devices, depending on the size and weight of the lintel (see the Certificate holder's brochure). Care must be taken to ensure that no forks, slings or chains damage the protective coating.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Catnic External Solid Wall Lintels.

Design Considerations

4 General

4.1 Catnic External Solid Wall Lintels are satisfactory for use in external solid masonry walls of brickwork and / or blockwork to provide support to wall, roof or floor loads (or a combination of these), above window or door openings.

4.2 Designers, planners, contractors and / or installers must ensure that the installation of the lintels is in accordance with the Certificate holder's instructions and the information given in this Certificate.

4.3 The lintels have provision for curtain track fixing clips around the perforations.

4.4 The lintels are lighter than those of conventional concrete and can be positioned by one or two operatives.

4.5 A separate damp-proof tray at the lintel position is unnecessary, unless lintels are used in areas of high precipitation or severe exposure.

4.6 Where relevant, the perforated steel lintel provides a suitable substrate for plastering.

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 Structural performance

6.1 The lintels⁽¹⁾ have adequate strength and stiffness to sustain the safe working loads given in Table 2 of this Certificate when uniformly distributed, subject to the following conditions:

- the defined sizes of masonry units are not exceeded and a minimum of 150 mm bearing is provided at each end
- where part of the loading is applied as a concentrated load, each concentrated load must be applied on a length of at least 200 mm. In such cases, the total applied loading must not produce bending moments, shear forces or reactions greater than those produced by the safe working loads (UDLs) specified in Table 2.

(1) the specified loads given in Table 2 relate to simply supported lintels, laterally and torsionally unrestrained. Therefore, there are no requirements for composite action with, or restraint by, adjacent elements of construction.



6.2 The load-span data shown in Table 2 is valid only for the safe working loads and the lintel clear spans given. The loads have been derived from tests according to BS EN 846-9 : 2016, supported by calculations, and relate to a maximum allowable deflection of span/325. For other loading conditions, or spans outside this range, the Certificate holder should be consulted.

6.3 To avoid excessive eccentricities of loading, the lintels must only be used with standard masonry units, ie bricks or blocks up to 215 mm wide.

6.4 In addition to the requirements specifically referred to in this Certificate, structures of brickwork or blockwork in which the lintels are incorporated must be designed and constructed in accordance with BS EN 1996-1-1 : 2005 and BS EN 1996-1-2 : 2005 or BS EN 1996-3 : 2006, and their UK National Annexes, PD 6697 : 2019, and the following technical specifications of the national Building Regulations as appropriate:

- **England and Wales** — Approved Document A1/2, Part C, Section 1
- **Scotland** — Section 1, Small Building Guide
- **Northern Ireland** — Technical Booklet D *Structure*, Section 3.

6.5 Guidance for the assessment of loads on lintels in masonry is given in BS EN 845-2 : 2013 and PD 6697 : 2019. It is the responsibility of the designer to ensure that the applied loads do not exceed the safe working loads given in Table 2 of this Certificate.

7 Behaviour in relation to fire



7.1 Galvanized and stainless steel profiles are non-combustible and are classified as Class A1 in accordance with the national Building Regulations.

7.2 The product contains EPS, which is not classified as non-combustible or of limited combustibility.

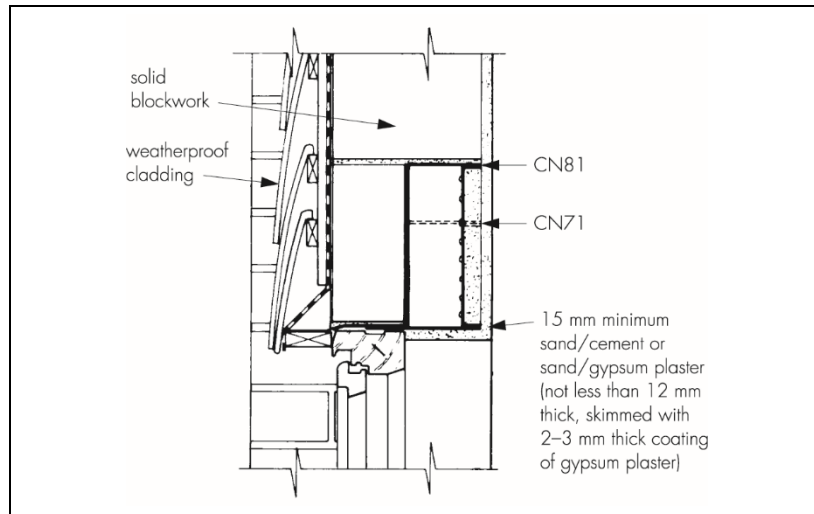


7.3 The EPS included in the external solid wall lintels is considered to be a thermal break. Thus, the lintels are not subject to any restriction on height or proximity to boundaries.



7.4 The fire resistance of the wall incorporating the lintels must meet the national Regulations and should be evaluated by reference to the requirements of the documents supporting the national Building Regulations. An appropriate assessment or test must be carried out by a United Kingdom Accreditation Service (UKAS) accredited laboratory (accredited for the test concerned).

Figure 1 Typical installation details for Catnic External Solid Wall Lintels



8 Thermal performance



8.1 External masonry wall openings incorporating the product with an external wall insulation system and soffit insulation with a minimum thermal resistance value of $0.6 \text{ m}^2 \cdot \text{K} \cdot \text{W}^{-1}$ will have a nominal linear thermal transmittance (ψ) value of $0.3 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$.

8.2 For other junction details/constructions, a default ψ value of $1.0 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$ may be used, or the linear thermal transmittance calculated in accordance with BS EN ISO 10211 : 2017, following the guidance in BRE Report BR 497 : 2007.

9 Condensation risk



9.1 Constructions described in section 8.1 will achieve a surface temperature factor, f_{Rsi} , in excess of 0.75 and should adequately limit the risk of surface condensation in dwellings, as defined in BRE Information Paper IP1/06. The surface condensation risk of other constructions should be established by numerical modelling in accordance with BRE Information Paper IP 1/06.

9.2 Further guidance on limiting the risk of surface condensation can be found in the documents supporting the national Building Regulations:

9.3 The risk of interstitial condensation will depend on the continuity of thermal insulation and vapour control layers, and the internal and external conditions.

10 Corrosion protection

The steel lintels have adequate protection against corrosion, providing:

- the galvanized and polyester coating protection remains undamaged or minor blemishes are repaired
- the mortar complies with the requirements of BS EN 998-2 : 2016.

11 Maintenance

Maintenance is not required, but the exposed toe of the lintel may be re-painted to improve its appearance, using finishes that are compatible with a polyester coating.

12 Durability



12.1 Providing the lintels are designed and installed in accordance with this Certificate, they will have a service life of at least 60 years, subject to the following conditions:

- lintels comprising zinc-coated steel profiles are limited for use in buildings up to 3 storeys in height located in areas with non-aggressive environments only, in accordance with note 3 under Table 2 in PD 6697 : 2019
- lintels comprising stainless steel profiles grade 304 are limited for use in buildings located in areas with non-aggressive environments only, in accordance with note 4 under Table 2 in PD 6697 : 2019
- lintels comprising stainless steel profiles grade 316 are not limited for use in any areas, in accordance with note 4 under Table 2 in PD 6697 : 2019
- the galvanized steel profile of the lintel should be protected as described in section 10 of this Certificate.

12.2 The durability of the lintels will not be impaired by contact with conventional mortar admixtures.

12.3 External solid single-leaf walls incorporating the lintels must be protected by a suitable weathertight facing, eg a ventilated cladding.

12.4 Buildings located in exposed conditions, such as those in coastal areas and those above three storeys, are at greater risk of suffering water ingress. In these situations, it is important that separate dpc and stop-ends are installed.

13 Reuse and recyclability

The steel component can be recycled.

Installation

14 General

14.1 Typical installation details are shown in Figure 1 of this Certificate.

14.2 Except for the longer span lintels, the product can generally be lifted and handled by a single operative. Protective gloves should be worn when handling the lintels.

14.3 The product must be installed with a minimum 150 mm end bearing, and must be fully bedded on bricklaying mortar.

14.4 Mortar joints in exposed masonry should be weatherstruck in severe exposure zones.

14.5 Operations likely to damage the protective coatings or impair the strength of the lintels (for example, cutting, welding or drilling) must not be undertaken. Cleaning of excess mortar must be carried out with a soft tool to avoid damaging the coating.

Technical Investigations

15 Tests

Tests were conducted and the results assessed to determine:

- load-deflection characteristics to BS EN 845-2 : 2013
- thickness and quality of galvanized and polyester resin coatings

- the quality of the spot welding and its effect on the galvanizing
- resistance to damage of the polyester-powder coatings
- the flexural and shear strength of the lintel in accordance with BS EN 846-9 : 2016.

16 Investigations

16.1 The following investigations were carried out

- Calculations and review of the results of the load-deflection tests to establish structural performance
- Suitability of the corrosion protection, including review of results of long-term exposure tests on galvanized steel
- Effectiveness of the lintels as damp-proof trays
- Risk of condensation and thermal transmittance / heat loss through junctions
- Behaviour in fire and practicability of installation
- Suitability of the corrosion resistance of the stainless steel.

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

Bibliography

- BRE Information Paper IP 1/06 Assessing the effects of thermal bridging at junctions and around openings.
- BRE Report BR 497 : 2016 *Conventions for calculating linear thermal transmittance and temperature factors*
- BS EN 520 : 2004 BS EN 520 : 2004 + A1 : 2009 *Gypsum plasterboards — Definitions, requirements and test methods*
- BS EN 771-1: 2011 + A1 : 2015 *Specification for masonry units — Clay masonry units*
- BS EN 845-2 : 2013 + A1 : 2016 *Specification for ancillary components for masonry — Lintels*
- BS EN 846-9 : 2016 *Methods of test for ancillary components for masonry — Determination of flexural resistance and shear resistance of lintels*
- BS EN 998-2 : 2016 *Specification for mortar for masonry — Masonry mortar*
- BS EN 1996-1-1 : 2005 *Eurocode 6 – Design of masonry structures – General rules for reinforced and unreinforced structures*
- NA to BS EN 1996-1-1 : 2005 *Eurocode 6 – Design of masonry structures – General rules for reinforced and unreinforced 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 1996-3 : 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 10088-2 : 2014 *Stainless steels – Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*
- BS EN 10346 : 2015 *Continuously hot-dip coated steel flat products for cold forming – Technical delivery conditions*
- BS EN 13163:2012+A2:2016 *Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification*
- BS EN 13279-1 : 2008 *Gypsum binders and gypsum plasters – Definitions and requirements*
- BS EN ISO 9001 : 2015 *Quality management systems – Requirements*
- BS EN ISO 10211 : 2017 *Thermal bridges in building construction – Heat flows and surface temperatures – Detailed calculations*
- PD 6697 : 2019 *Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2*

17 Conditions

17.1 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.

17.2 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.

17.3 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.

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

17.5 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.

17.6 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.