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Agrément Certificate
25/7367
Product Sheet 1 Issue 1

KENOTEQ BRICK

K-BRIQ

This Agrément Certificate Product Sheet(1) relates to K-Briq, a construction brick made from construction and demolition recycled waste, proprietary binder and recycled pigment, for use above and below the damp-proof course (DPC), in the construction of non-loadbearing outer leaves of cavity walls, with height restrictions in some cases.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review

KEY FACTORS ASSESSED

Section 1. Mechanical resistance and stability
Section 2. Safety in case of fire
Section 3. Hygiene, health and the environment
Section 4. Safety and accessibility in use
Section 5. Protection against noise
Section 6. Energy economy and heat retention
Section 7. Sustainable use of natural resources
Section 8. Durability

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 issue: 27 March 2025

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

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

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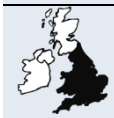
SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that K-Briq, 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 Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**A1**	**Loading**
Requirement:	**A2**	**Ground movement**
Comment:		The product can contribute to satisfying these Requirements. See sections 1 and 9 of this Certificate.
Requirement:	**B3(1)(4)**	**Internal fire spread (structure)**
Comment:		The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
Requirement:	**B4(1)**	**External fire spread**
Comment:		The product may be restricted by this Requirement in some cases. See section 2 of this Certificate.
Requirement:	**C2(b)**	**Resistance to moisture**
Comment:		The product can contribute to satisfying this Requirement. See section 9 of this Certificate.
Requirement:	**C2(c)**	**Resistance to moisture**
Comment:		The product can contribute to limiting the risk of condensation. See section 3 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**7(2)**	**Materials and workmanship**
Comment:		The product may be restricted by this Regulation in some cases. See section 2 of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)(2)**	**Fitness and durability of materials and workmanship**
Comment:		Use of the product satisfies the requirements of this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	**8(3)**	**Fitness and durability of materials and workmanship**
Comment:		The product may be restricted by this Regulation in some cases. See section 2 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	1.1(a)(b)	Structure
Comment:		The product can contribute to satisfying this Standard, with reference to clauses $1.1.1^{(1)(2)}$ to $1.1.3^{(1)(2)}$. See sections 1 and 9 of this Certificate.

Standard:	2.3	Structural protection
Standard:	2.4	Cavities
Comment:		The product can contribute to satisfying these Standards, with reference to clauses 2.3.2(1)(2) and 2.4.2(1)(2). See section 2 of this Certificate.
Standard:	2.6	Spread to neighbouring buildings
Comment:		The product may be restricted by this Standard, with reference to clauses 2.6.5(1) and 2.6.6(2). See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses 3.10.1(1)(2) to 3.10.3(1)(2). See section 9 of this Certificate.
Standard:	3.15	Condensation
Comment:		The product can contribute to limiting the risk of condensation, with reference to clauses 3.15.1(1)(2), 3.15.4(1)(2) and 3.15.5(1)(2). See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		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.
Regulation:	**12**	**Building standards – conversion**
Comment:		All comments given for the 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(1)(a)**	**Fitness of materials and workmanship**
Comment:	**(i)(iii)(b)(i)**	The product is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**23(2)**	**Fitness of materials and workmanship**
Comment:		The product may be restricted by this Regulation in some cases. See section 2 of this Certificate.
Regulation:	**28(b)**	**Resistance to moisture and weather**
Comment:		The product can contribute to satisfying this Regulation. See sections 3 and 9 of this Certificate.
Regulation:	**29**	**Condensation**
Comment:		The product can contribute to limiting the risk of condensation. See section 9 of this Certificate.
Regulation:	**30(a)**	**Stability**
Comment:		The product can contribute to satisfying this Regulation. See sections 1 and 9 of this Certificate.
Regulation:	**35(1)(4)**	**Internal fire spread — Structure**
Comment:		The product can contribute to satisfying this Regulation. See section 2 of this Certificate.
Regulation:	**36(a)**	**External fire spread**
Comment:		The product may be restricted by this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2025

In the opinion of the BBA, K-Briq, 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*.

Fulfilment of Requirements

The BBA has judged K-Briq to be satisfactory for use as described in this Certificate. The product has been assessed for use above and below the DPC, in the construction of non-loadbearing outer leaves of cavity walls, with height restrictions in some cases.

ASSESSMENT

Product description and intended use

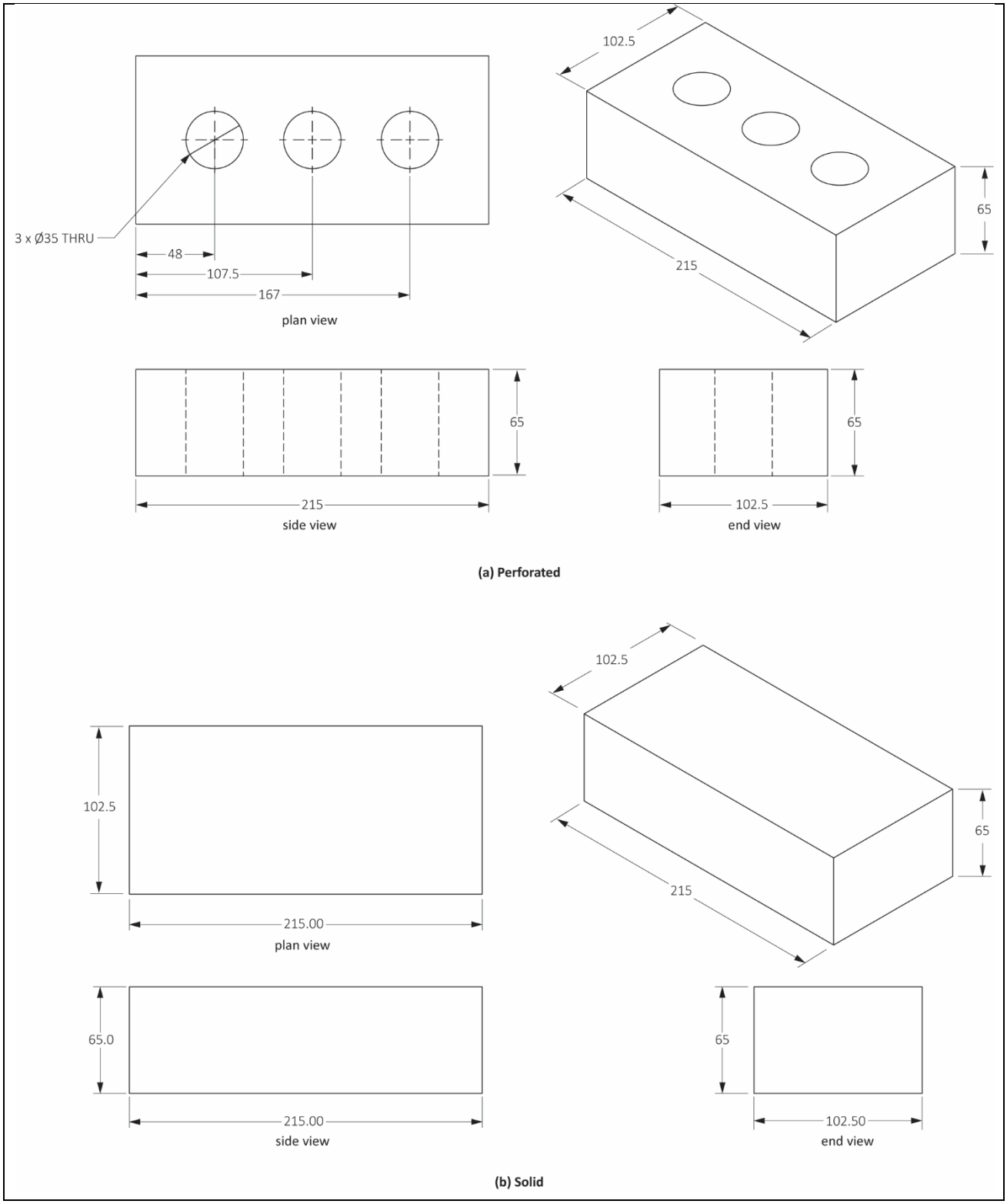
The Certificate holder provided the following description for the product under assessment. K-Briq are general purpose bricks made from construction and demolition recycled waste, recycled pigment and proprietary binder.

The product has the nominal characteristics given in Table 1, and the dimensions given in Figure 1.

Table 1 Nominal characteristics

Characteristic (unit)	Value
Format	Solid and perforated (13% voids)
Gross dry density ($kg \cdot m^{-3}$)	1750 ± 5%
Dimensions	215 x 102.5 x 65 mm (see Figure 1)
Dimensional tolerance to BS EN 771-1 : 2011	T2 R1
Colours	Medero dark grey Medero light grey Chapman burnt orange Chapman burnt orange light Heriot mustard Heriot light mustard Watt brown Watt light brown Gillespie magenta Gillespie magenta light Gullane cyan Gullane cyan light

Figure 1 K-Briq (dimensions in mm)



Ancillary Items

The Certificate holder recommends the following ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- mortar
- cavity wall ties
- insulation
- movement joints
- DPC.

Product assessment – key factors

The product was assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Behaviour under loading

1.1.1 The compressive strength of the product was assessed and the results are given in Table 2.

Table 2 Compressive strength

Product assessed	Assessment method	Requirement	Result
K-Briq, 215 x 102.5 x 65 mm, perforated	Mean compressive strength (before freeze/thaw) to BS EN 772-1 : 2011	Value achieved	30.4 $N \cdot mm^{-2}$
	Mean compressive strength [after freeze/thaw ageing(1)] to BS EN 772-1 : 2011	Value achieved	30.4 $N \cdot mm^{-2}$

(1) 100 cycles of freeze/thaw based on DD CEN/TS 772-22 : 2006.

1.1.2 On the basis of data assessed the product retains its compressive strength after freeze-thaw weathering, and has a characteristic compressive strength > 25.0 $N \cdot mm^{-2}$.

1.1.3 The mean and characteristic compressive strengths of a wall constructed using the product were assessed and the results are given in Table 3.

Table 3 Compressive strength of wall

Product assessed	Assessment method	Requirement	Result
Wall panel consisting of: • K-Briq, 215 x 102.5 x 65 mm, perforated • 10 mm M4 mortar joints(1)	BS EN 1052-1 : 1999	Value achieved	Mean = 4.32 $N \cdot mm^{-2}$ Characteristic = 3.52 $N \cdot mm^{-2}$

(1) 1 : 1 : 6, cement : lime : sand mortar mix to BS EN 998-2 : 2016.

1.1.4 The mean and characteristic flexural strengths of a wall constructed from the product was assessed and the results are given in Table 4.

Table 4 Flexural strength of a wall

Product assessed	Assessment method	Requirement	Result
Wall panel consisting of: • K-Briq, 215 x 102.5 x 65 mm, perforated • 10 mm M4 mortar joints(1)	BS EN 1052-2 : 2016	Value achieved	Parallel to bed joint: Mean = 0.19 N·mm^{-2} Characteristic = 0.13 N·mm^{-2} Perpendicular to bed joint: Mean = 0.68 N·mm^{-2} Characteristic = 0.45 N·mm^{-2}

(1) 1 : 1 : 6, cement : lime : sand mortar mix to BS EN 998-2 : 2016.

1.1.5 The mean and characteristic initial shear strengths of a wall constructed from the product was assessed and the results are given in Table 5.

Table 5 Initial shear strength of a wall

Product assessed	Assessment method	Requirement	Result
Wall panel consisting of: • K-Briq, 215 x 102.5 x 65 mm, perforated • 10 mm M4 mortar joints(1)	BS EN 1052-3 : 2002	Value achieved	Mean = 0.15 N·mm^{-2} Angle of internal friction = 43.16° Characteristic = 0.13 N·mm^{-2} Characteristic angle of internal friction = 34.53°

(1) 1 : 1 : 6, cement : lime : sand mortar mix to BS EN 998-2 : 2016.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The product has the reaction to fire classifications shown in Table 6.

Table 6 Reaction to fire classification

Product	Assessment method	Construction	Result
K-Briq: • 215 x 102.5 x 65 mm, perforated • Colour reference – Medero Dark Grey	BS EN 13501-1 : 2018	• Substrate – none • Airgap – freestanding • Brick density – 1750 kg·m^{-3} ± 5% • Joints – 10 mm M4 mortar(1) vertical and horizontal joints • Mortar(1) density – 1474 kg·m^{-3}	A2-s1, d0(2)
K-Briq: • 215 x 102.5 x 65 mm, perforated • Colour reference – Medero Light Grey, Chapman Burnt Orange, Chapman Burnt Orange Light, Heriot Mustard, Heriot Light Mustard, Watt Brown, Watt Light Brown, Gillespie Magenta, Gillespie Magenta Light, Gullane Cyan, Gullane Cyan Light	BS EN 13501-1 : 2018, DD CEN/TS 15117 : 2005 and BS EN 15725 : 2023		B-s1, d0(3)

(1) 5:1 sand to cement ratio, grey coloured.
(2) Report reference 523750 Version 4 issued by Warringtonfire, copy available from the Certificate holder on request.
(3) Report references 539338 Version 2 and 539339 Version 2 issued by Warringtonfire, copies available from the Certificate holder on request.

2.1.2 The performance and permissible areas of use of solid K-Briq and other specifications must be confirmed by reference to the requirements of the documents supporting the national Building Regulations.

2.1.3 On the basis of data assessed, the construction with a reaction to fire classification A2-s1, d0 is unrestricted in terms of building height and proximity to a relevant boundary by the documents supporting the national Building Regulations.

2.1.4 The constructions with a reaction to fire classification of B-s1, d0 are unrestricted in terms of building height and proximity to a relevant boundary, except on the buildings described in sections 2.1.5 to 2.1.7 of this Certificate.

2.1.5 In England, other than in the constructions achieving a reaction to fire classification of A2-s1, d0, the product must not be used on residential buildings with a storey 11 m or more in height or on buildings that have a storey at least 18 m above ground level and which contain: one or more dwellings, an institution, a room for residential purposes, student accommodation, care homes, sheltered housing, hospitals, dormitories in boarding schools, hotels, hostels or boarding houses.

2.1.6 In Wales and Northern Ireland, other than in the construction achieving a reaction to fire classification of A2-s1, d0, the product must not be used on buildings with a storey 18 m or more above ground level and which contain one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools and additionally, in Northern Ireland, nursing homes and places of lawful detention.

2.1.7 In Scotland, other than in the constructions achieving a reaction to fire classification of A2-s1, d0, the product must not be used on buildings with a storey 11 m or more above the ground or 1 m or less from a relevant boundary.

2.1.8 Designers must refer to the relevant national Building Regulation guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall wall.

2.2 Resistance to fire

Where a wall incorporating the product is required to achieve a period of fire resistance, its performance must be confirmed by a suitably experienced and competent individual or by a test from a suitably accredited laboratory.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Resistance to moisture

3.1.1 The properties in relation to water of the product were assessed and the results are given in Table 7.

Table 7 Properties in relation to water

Product assessed	Assessment method	Requirement	Result
K-Briq	Initial rate of water absorption BS EN 772-11 : 2011	Value achieved	0.1 $kg \cdot m^{-2} \cdot min^{-1}$
	Water absorption BS EN 772-21 : 2011	Value achieved	2%
	Total moisture movement BS EN 772-14 : 2002	Value achieved	0.85 $mm \cdot m^{-1}$ at 0.4% moisture content

3.1.2 On the basis of data assessed in Table 7 and section 8, the products are resistant to the freeze/thaw conditions likely to occur below the DPC and are suitable for use in situations up to and including MX3.2 as defined in BS EN 1996-2 : 2024 and its UK National Annex. The guidance given in PD 6697 : 2019 must be followed.

3.2 Water vapour permeability

3.2.1 Results of water vapour transmission properties are given in Table 8.

Table 8 Water vapour transmission properties

Product assessed	Assessment method	Requirement	Result[1]
K-Briq (solid)	Water vapour resistance factor (μ) to BS EN ISO 12572 : 2016	Value achieved	20.07
	Water vapour diffusion-equivalent air layer thickness (S_d) to BS EN ISO 12572 : 2016	Value achieved	0.316 m

(1) Mean values.

3.3 Resistance to chemicals

Based on BRE Special Digest 1 : 2005, the blocks are suitable for use in Design Sulfate Class DS-1 soil.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Data were assessed for the following characteristic.

6.1 Thermal conductivity

6.1.1 Results of thermal conductivity tests are given in Table 9.

Table 9 Thermal conductivity

Products assessed	Assessment method	Requirement	Result
K-Briq [solid or perforated[1]], External[2] or below ground level	BS EN 1745 : 2020	Declared value of ≤ 0.74 $W \cdot m^{-1} \cdot K^{-1}$	Pass

(1) Including three 35 mm diameter perforations, unfilled.
(2) Exposed (eg not protected by a cladding system), or below the DPC but above ground level.

6.2 Thermal performance

6.2.1 Calculations of the thermal transmittance (U value) of external walls must be carried out in accordance with BS EN ISO 6946 : 2017 and BRE Report BR 443 : 2019 using the relevant thermal conductivity value in Table 9 of this Certificate.

6.2.2 The product can contribute to maintaining continuity of thermal insulation at junctions between elements and around openings.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the product were assessed.

8.2 Specific test data were assessed as follows.

8.2.1 The active soluble salts content of the product was assessed and the results are given in Table 10.

Table 10 Active soluble salts content

Product assessed	Assessment method	Requirement	Result
K-Briq	BS EN 772-5 : 2016	BS EN 771-1 : 2011: sodium and potassium ions ≤ 0.06	Pass
		BS EN 771-1 : 2011: magnesium ions ≤ 0.03	Pass

8.2.2 On the basis of data assessed, the product achieves active soluble salts content category S2 in accordance with BS EN 771-1 : 2011, and is therefore suitable for use in service conditions of prolonged saturation in accordance with the same Standard.

8.2.3 The freeze/thaw resistance of the product was assessed and the result is given in Table 11.

Table 11 Freeze/thaw resistance

Product assessed	Assessment method	Requirement	Result
Wall panel consisting of: • K-Briq, 215 x 102.5 x 65 mm, perforated. Ten courses of three bricks wide, stretcher bond • M4 mortar(1)	DD CEN/TS 772-22 : 2006, 100 cycles	Value achieved	No damage greater than type 3

(1) 1:4 by volume high alumina cement: sand.

8.2.4 On the basis of data assessed, K-Briq achieves category F2 durability classification against freeze/thaw and is therefore suitable for use in areas subjected to severe exposure in accordance with BS EN 771-1 : 2011, ie masonry or elements of masonry which, under end use conditions, are subjected to saturation with water (driving rain) combined with frequent freeze/thaw-cycling, due to climatic conditions and absence of protective features.

8.2.5 The colour stability of the product was assessed and the results are given in Table 12.

Table 12 Colour stability

Products assessed	Assessment method	Requirement	Result	
			Colour	Grade
K-Briq	Colour change to BS EN 20105-A02 : 1995/ ISO 105-A02 : 1993 following 2000 hours UV-340A ageing in accordance with BS EN ISO 4892-3 : 2024 and BS EN 13523-10 : 2024	Value achieved	Medero Dark Grey	5
			Medero Light Grey	4
			Gillespie Magenta	5
			Gullane Cyan	5
			Watt Brown	5

8.2.6 On the basis of data assessed, the colour stability of the full colour range is satisfactory.

8.3 Service life

Under normal service conditions, the product will have a life at least equivalent to the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA, and the following requirements apply in order to satisfy the performance specified in this Certificate.

9.1.2 Walls must be designed and constructed in accordance with BS EN 1996-1-1 : 2022, BS EN 1996-1-2 : 2024, BS EN 1996-2 : 2024, BS EN 1996-3 : 2023 and their UK National Annexes, and PD 6697 : 2019.

9.1.3 For low-rise buildings, the design of masonry walls must be in accordance with BS 8103-2 : 2013.

9.1.4 The product must only be used in their intended orientation to achieve their full compressive strength.

9.1.5 The maximum depth of horizontal and vertical chases must be in accordance with guidance given in BS EN 1996-1-1 : 2022 and BS EN 1996-1-2 : 2024, and their UK National Annexes.

9.1.6 Mortar must not be stronger than the product, as defined by either BS EN 1996-1-1 : 2005 and its UK National Annex or PD 6697 : 2019, and the characteristic initial shear strength of designed masonry mortars in combination with the product must be in accordance with BS EN 998-2 : 2016. All vertical and horizontal joints must be filled with mortar.

9.1.7 The product must not be used in locations with potential of mobile ground water.

9.1.8 Vertical movement joints and ties must be provided at intervals not exceeding 6 m and within 3 m of corners, and at joints with different block types.

9.1.9 Wall ties must be incorporated as necessary as in conventional masonry construction.

9.1.10 Walls will adequately limit the risk of interstitial condensation provided they are designed and constructed in accordance with BS 5250 : 2021, and the relevant guidance.

9.1.11 For buildings in England and Wales, walls will adequately limit the risk of surface condensation when the thermal transmittance (u value) does not exceed 0.7 $W \cdot m^{-2} \cdot K^{-1}$ at any point and the junctions with other elements are designed in accordance with the guidance referred to in section 6 of this Certificate.

9.1.12 For buildings in Scotland, constructions will be acceptable where the thermal transmittance (u value) does not exceed 1.2 $W \cdot m^{-2} \cdot K^{-1}$ at any point and the junctions with other elements are designed in accordance with the guidance referred to in BS 5250 : 2021. Further guidance may be obtained from BRE Report BR 262 : 2002 and section 6 of this Certificate.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out strictly in accordance with BS 8000-3 : 2020, this Certificate and the Certificate holder's instructions. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.3 Workmanship

Practicability of installation was assessed on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by a competent general builder, or a contractor, experienced with this type of product.

9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the product in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate.

9.4.2 The following requirements apply in order to satisfy the performance assessed in this Certificate:

9.4.2.1 Visual inspections must be performed biannually to identify any maintenance needs.

9.4.2.2 The product must be cleaned annually, or more frequently in areas exposed to heavy pollution or moisture, in accordance with the Certificate holder's instructions.

9.4.2.3 Damaged mortar must be replaced as soon as possible

9.4.2.4 Products with significant damage eg deep cracking, spalling etc must be replaced in accordance with the Certificate holder's instructions.

10 Manufacture

10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review 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.

11 Delivery and site handling

11.1 The Certificate holder stated that the product is delivered to site in packs of up to 500 bricks, shrink wrapped with PET banding strips and edge protection, in a laying pattern that leaves voids to allow forklifts or appropriate machinery to lift the pack. Labels on the packaging bear the BBA logo incorporating the number of this Certificate, product colour, type and production order number.

11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 The product must be stored off the ground.

11.2.2 The product must be moved from storage area to work zones as needed. The product must be handled with care to avoid damage and excessive handling avoided to reduce the risk of chipping or breakage.

† ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the 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.

Management Systems Certification for production

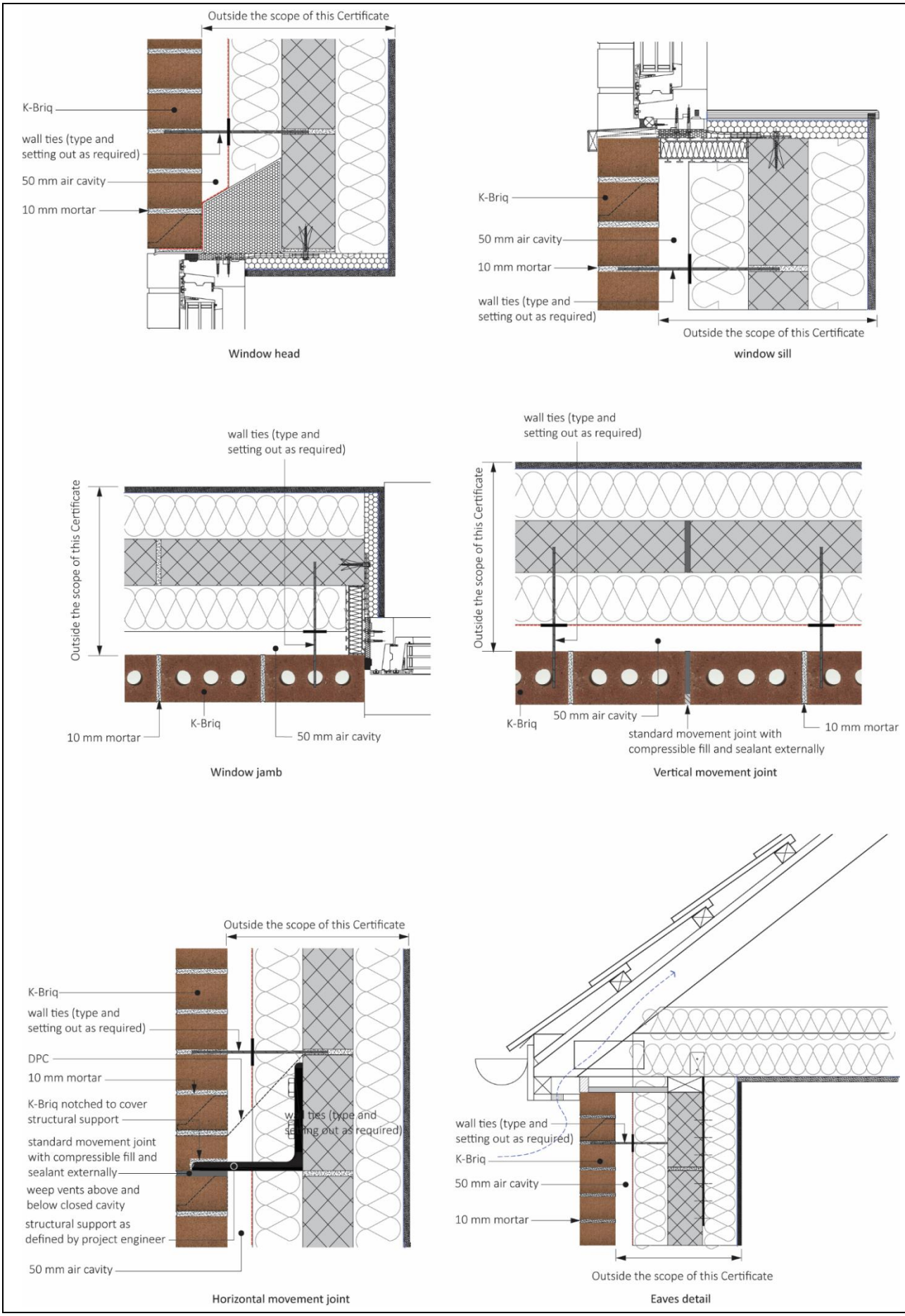
The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by NQA (Certificate 126806).

Additional Guidance

A.1 Guidance on limiting heat loss by air infiltration can be found in the documents supporting the national Building Regulations. Further information can be found in NHBC Foundation NF16 (2009).

A.2 Typical installation details are shown in Figure 2.

Figure 2 Typical installation details



Bibliography

BRE Report BR 262 : 2002 *Thermal performance: avoiding risks*

BRE Report BR 443 : 2019 *Conventions for U-value calculations*

BRE Special Digest 1 : 2005 *Concrete in aggressive ground*

BS 5250 : 2021 *Management of moisture in buildings — Code of practice*

BS 8000-3 : 2020 *Workmanship on construction sites — Masonry — Code of practice*

BS 8103-2 : 2013 *Structural design of low-rise buildings — Code of practice for masonry walls for housing*

BS EN 771-1 : 2011 + A1 : 2015 *Specification for masonry units — Clay masonry units*
BS EN 772-1 : 2011 + A1 : 2015 *Methods of test for masonry units — Determination of compressive strength*
BS EN 772-5 : 2016 *Methods of test for masonry units — Determination of the active soluble salts content of clay masonry units*
BS EN 772-11 : 2011 *Methods of test for masonry units — Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units*
BS EN 772-14 : 2002 *Methods of test for masonry units — Determination of moisture movement of aggregate concrete and manufactured stone masonry units*
BS EN 772-21 : 2011 *Methods of test for masonry units — Determination of water absorption of clay and calcium silicate masonry units by cold water absorption*

BS EN 998-2 : 2016 *Specification for mortar for masonry — Masonry mortar*

BS EN 1052-1 : 1999 *Methods of test for masonry — Determination of compressive strength*
BS EN 1052-2 : 2016 *Methods of test for masonry — Determination of flexural strength*
BS EN 1052-3 : 2002 *Methods of test for masonry — Determination of initial shear strength*

BS EN 1745 : 2020 *Masonry and masonry products — Methods for determining thermal properties*

BS EN 1996-1-1 : 2022 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 : 2024 Eurocode 6 *Design of masonry structures — Part 1-2: 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 : 2024 Eurocode 6 *Design of masonry structures — Design considerations, selection of masonry and execution*
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 : 2023 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 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*

BS EN 13523-10 : 2024 *Coil coated metals — Test methods — Resistance to fluorescent UV radiation and water condensation*

BS EN 15725 : 2023 *Extended application on the fire performance of construction products and building elements — Principle of EXAP standards and EXAP reports*

BS EN 20105-A02 : 1995, ISO 105-A02 : 1993 *Textiles — Tests for colour fastness — Grey scale for assessing change in colour*

BS EN ISO 4892-3 : 2024 *Plastics — Methods of exposure to laboratory light sources — Fluorescent UV lamps*

BS EN ISO 6946 : 2017 *Building components and building elements — Thermal resistance and thermal transmittance — Calculation methods*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

BS EN ISO 12572 : 2016 *Hygrothermal performance of building materials and products — Determination of water vapour transmission properties — Cup method*

DD CEN/TS 772-22 : 2006 *Methods of test for masonry units — Determination of freeze/thaw resistance of clay masonry units*

DD CEN/TS 15117 : 2005 *Guidance on direct and extended application*

PD 6697 : 2019 *Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2*

Conditions of Certificate

Conditions

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