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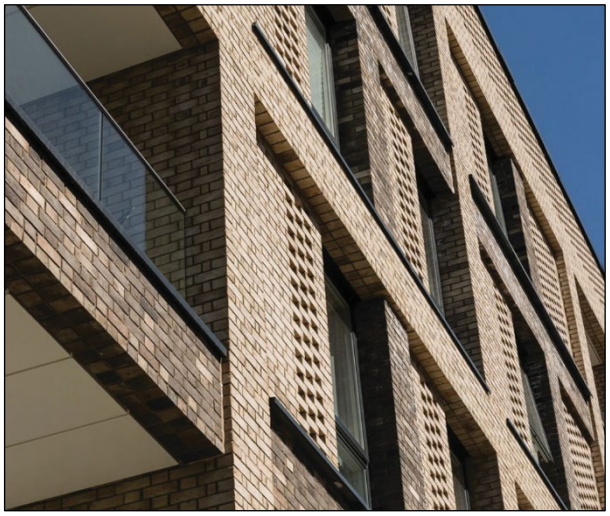
Agrément Certificate
19/5650
Product Sheet 3 Issue 2

ACS AZURE BRICK SLIP MASONRY SUPPORT SYSTEMS

ACS AZURE II BRICK FACED LINTELS

This Agrément Certificate Product Sheet(1) relates to ACS Azure II Brick Faced Lintels, comprising a stainless steel profile with a mechanically fixed brick slip façade, for use in the external leaf of masonry cavity walls of brickwork and/or blockwork masonry construction to provide support to walls above window or door openings.

(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 systems described herein. These systems have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Second issue: 8 January 2026
Originally certified on 10 August 2020

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.

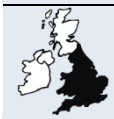
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SUMMARY OF ASSESSMENT AND COMPLIANCE

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 ACS Azure II Brick Faced 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 Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**A1**	**Loading**
Comment:		The systems can contribute to satisfying this Requirement. See section 1 of this Certificate.
Requirement:	**B3(1)**	**Internal fire spread (structure)**
Comment:		The systems can be incorporated in a construction satisfying this Requirement. See section 2 of this Certificate.
Requirement:	**C2(c)**	**External fire spread**
Comment:		The systems can be incorporated in a construction satisfying this Requirement. See section 3 of this Certificate.
Requirement:	**L1(a)(1)**	**Conservation of fuel and power**
Comment:		The systems can contribute to satisfying this Requirement. See section 6 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**7(2)**	**Materials and workmanship**
Comment:		The systems are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**25B**	**Nearly zero-energy requirements for new buildings**
Regulation:	**26**	**CO_2 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)**
Regulation:	**26C**	**Target primary energy rates for new buildings (applicable to England only)**
Regulation:	**26C**	**Energy efficiency rating (applicable to Wales only)**
Comment:		The systems can contribute to satisfying these Regulations. See section 6 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)(2)**	**Fitness and durability of materials and workmanship**
Comment:		The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**8(3)**	**Fitness and durability of materials and workmanship**
Comment:		The systems are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	1.1(a)(b)	Structure
Comment:		The systems are acceptable, with reference to clauses 1.1.1$^{(1)(2)}$, 1.1.2$^{(1)(2)}$ and 1.1.3$^{(1)(2)}$ of this Standard. See section 1 of this Certificate.

Standard:	2.3	Structural protection
Comment:		The systems can be incorporated in a construction satisfying this Standard, with reference to clauses 2.3.1(1)(2) and 2.3.3(1)(2) and Annexes 2A(1), 2B(1), 2D(2), and 2E(2). See section 2 of this Certificate.
Standard:	3.15	Condensation
Comment:		The external wall incorporating the systems 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 section 3 of this Certificate.
Standard:	6.1(b)(c)(d)	Energy demand and carbon dioxide emissions
Standard:	6.2	Building insulation envelope
Comment:		The systems can contribute to satisfying these Standards, 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) and 6.2.11(2). See sections 6 and 8 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The systems 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 systems 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)(i) (iii)(b)(i)(ii)**	**Fitness of materials and workmanship**
Comment:		The systems are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**23(2)**	**Fitness of materials and workmanship**
Comment:		The systems are unrestricted by this Regulation. See section 2 of this Certificate.
Regulation:	**30**	**Stability**
Comment:		The systems are acceptable. See sections 1 and 9 of this Certificate.
Regulation:	**35(1)**	**Internal fire spread – structure**
Comment:		The systems can be incorporated in a construction satisfying this Regulation. See section 2 of this Certificate.
Regulation:	**39(a)(i)**	**Conservation measures**
Regulation:	**40(2)**	**Target carbon dioxide emissions rate**
Regulation:	**43B**	**Nearly zero-energy requirements for new buildings**
Comment:		The systems can contribute to satisfying these Regulations. See section 6 of this Certificate.

Additional Information

NHBC Standards 2026

In the opinion of the BBA, ACS Azure II Brick Faced 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, Part 6 Superstructure (excluding roofs),* Chapter 6.1 *External masonry walls.*

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards.

Fulfilment of Requirements

The BBA has judged ACS Azure II Brick Faced Lintels to be satisfactory for use as described in this Certificate. The systems have been assessed as brick faced lintels, for use in the external leaf of masonry cavity walls of brickwork and/or blockwork masonry construction to provide support to walls above window or door openings.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the systems under assessment. ACS Azure II Brick Faced Lintels are one-piece external wall lintels, prefabricated from stainless steel profiles with a mechanically fixed brick slip façade using a connecting rail (fixed to the profile by welding, riveting or mechanical fixing), see Figures 1 to 8.

The systems comprise:

Lightweight stainless steel profiles

- the lintels are prefabricated lightweight profiles manufactured using grade 304 (1.4301) or 316 (1.4404) austenitic stainless steel to BS EN 10088-2 : 2014 based on the design specifications for non-aggressive or aggressive environments respectively, produced in four standard profiles as detailed in section 1.1 of this Certificate. Grades 304 (1.4301) and 316 (1.4404) are equivalent to R3 and R1 classifications to PD 6697 : 2019 respectively. The steel sections of the lintels are CE marked in accordance with BS EN 845-2 : 2013 and manufactured to comply with the requirements of BS EN 1090-1 : 2009

Connecting rails and fixings

- connecting rails are manufactured from the same grade of stainless steel as the profile and are welded, riveted or mechanically fixed to the profile. The rails have nibs that accommodate the grooves on the reverse side of the brick slips

Brick slips

- brick slips are 25 mm thick and cut from bricks manufactured in accordance with requirements of BS EN 771-1 : 2011 and BS 4729 : 2005.

The systems are available in four standard profiles (L1, C1, C2 and CS section) with three different brick slip bonds (stretcher, header and soldier). Further details are given in Table 1:

- Lintel ACS L1 — standard duty (65 x 215 mm) with stretcher bond (see Figure 1)
- Lintel ACS C1 HD — heavy duty (65 x 215 mm) with stretcher bond (see Figure 2)
- Lintel ACS C2 XHD — extra heavy duty (65 x 215 mm) with stretcher bond (see Figure 3)
- Lintel ACS L1 — standard duty (65 x 215 mm) with header bond (see Figure 4)
- Lintel ACS C1 HD — heavy duty (65 x 215 mm) with header bond (see Figure 5)
- Lintel ACS C2 XHD — extra heavy duty (65 x 215 mm) with header bond (see Figure 6)
- Lintel ACS CS Section — (215 x 215 mm) with soldier bond for 1810 mm structural opening (see Figure 7)
- Lintel ACS CS Section — (215 x 215 mm) with soldier bond for 2710 mm structural opening (see Figure 8).

Figure 1 ACS L1 Standard duty lintel with stretcher bond

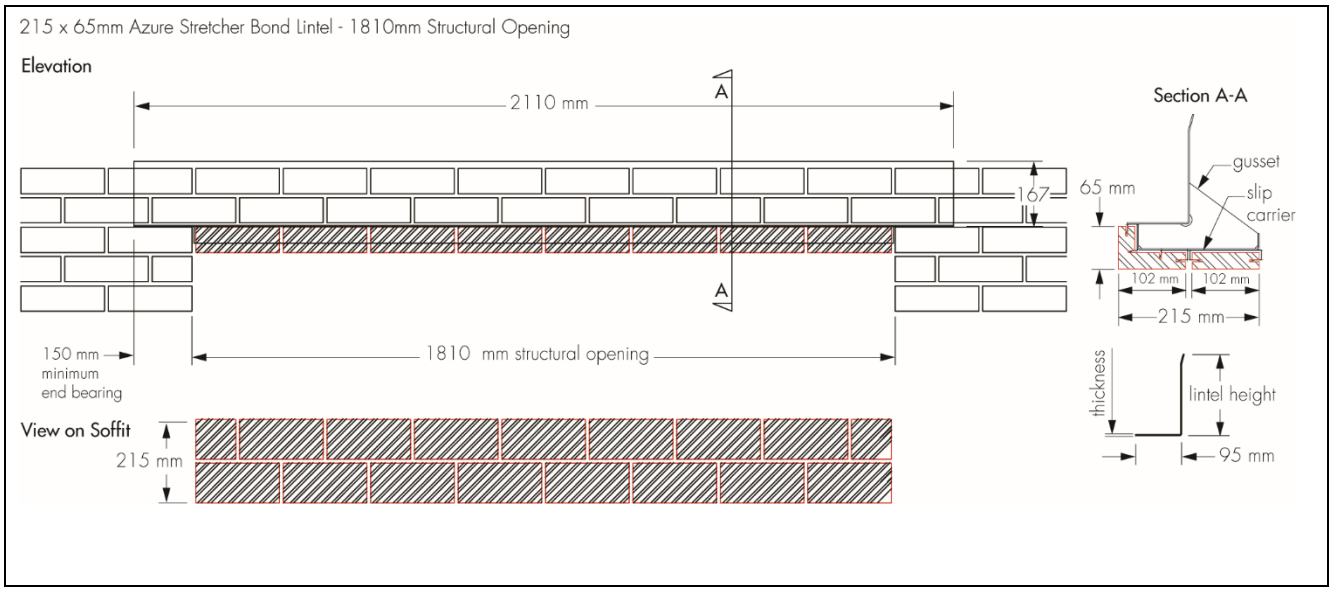


Figure 2 ACS C1 HD heavy duty lintel with stretcher bond

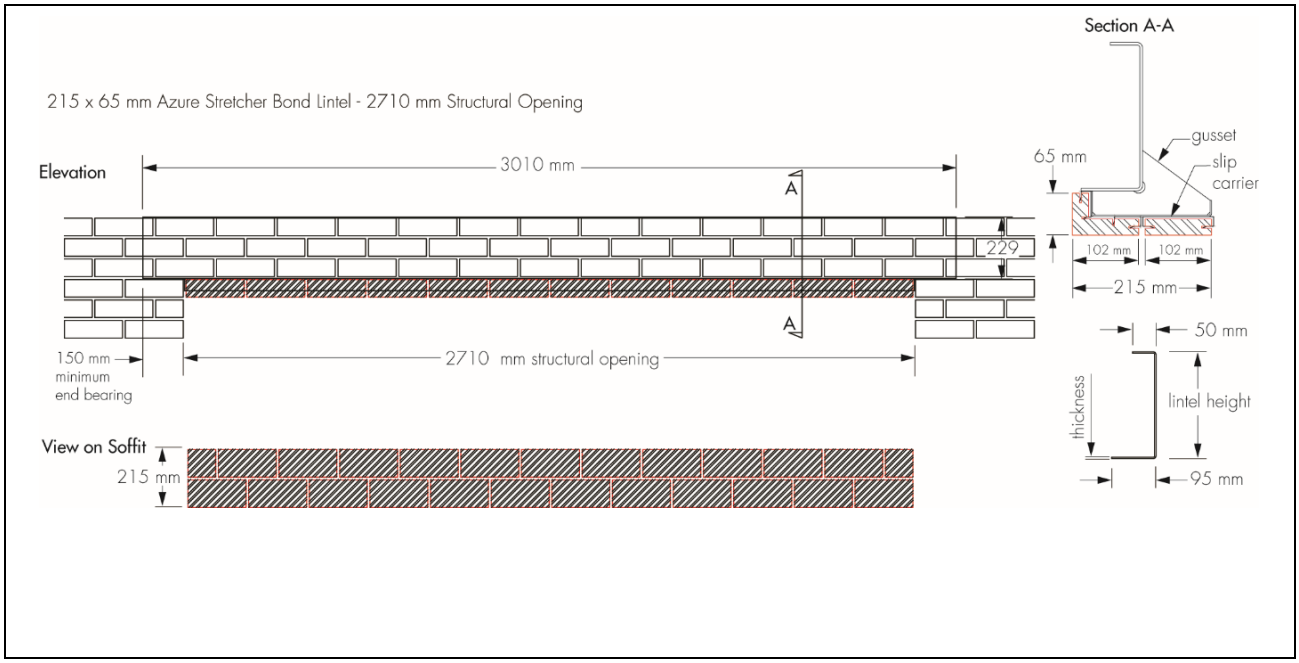


Figure 3 ACS C2 XHD lintel with stretcher bond

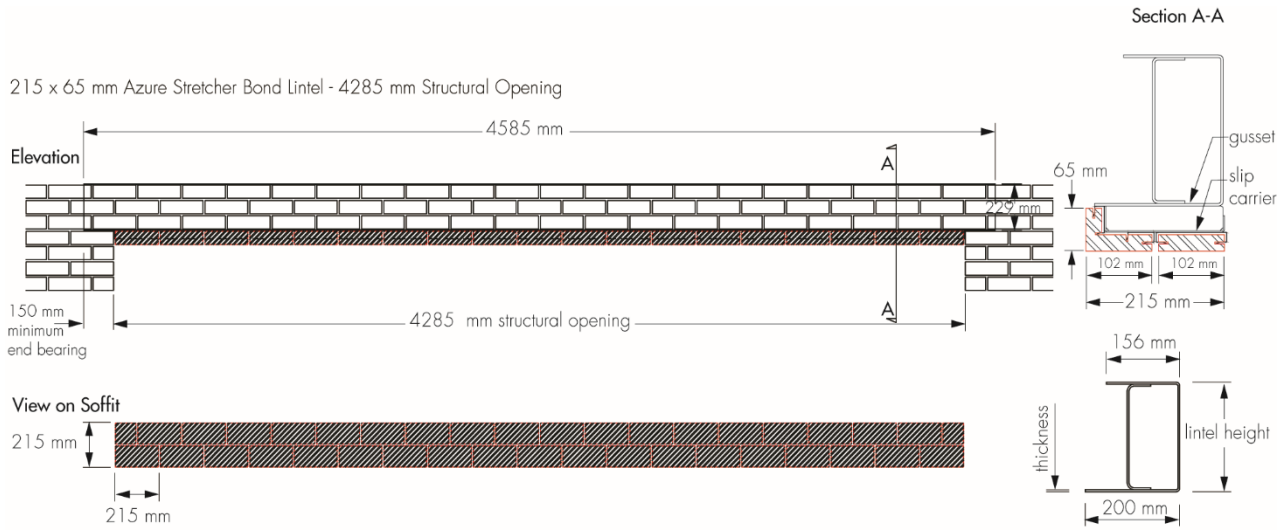


Figure 4 ACS L1 standard duty lintel with header bond

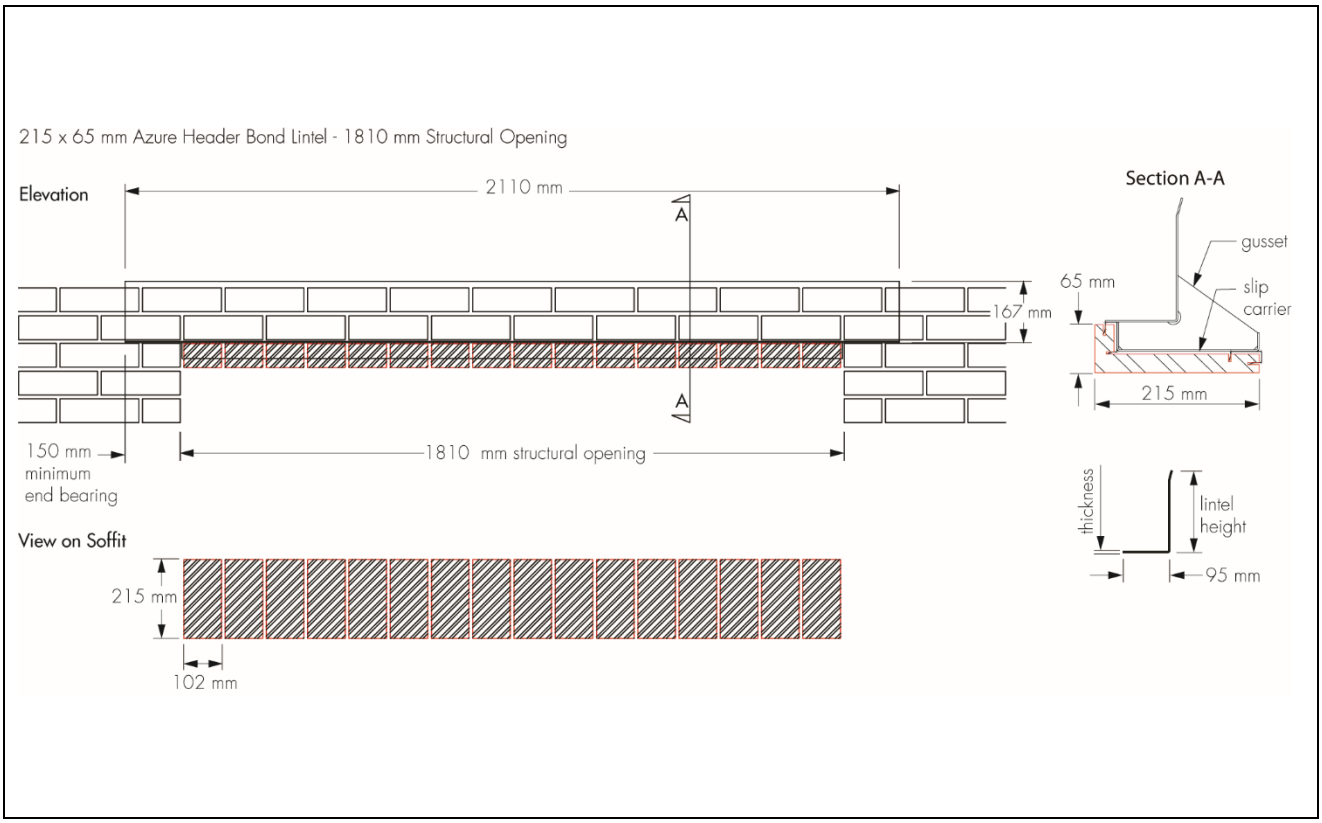


Figure 5 ACS C1 HD heavy duty lintel with header bond

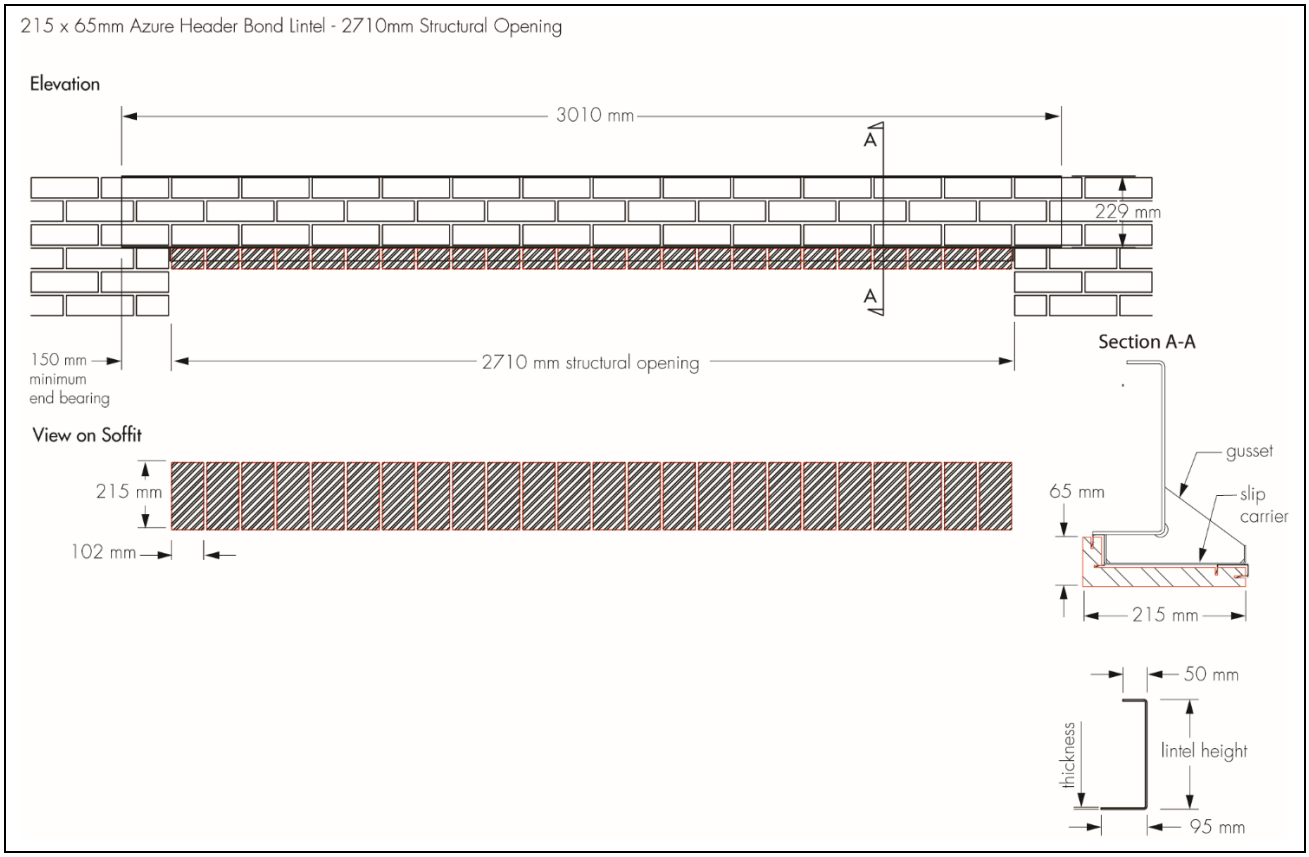


Figure 6 ACS C2 XHD lintel with header bond

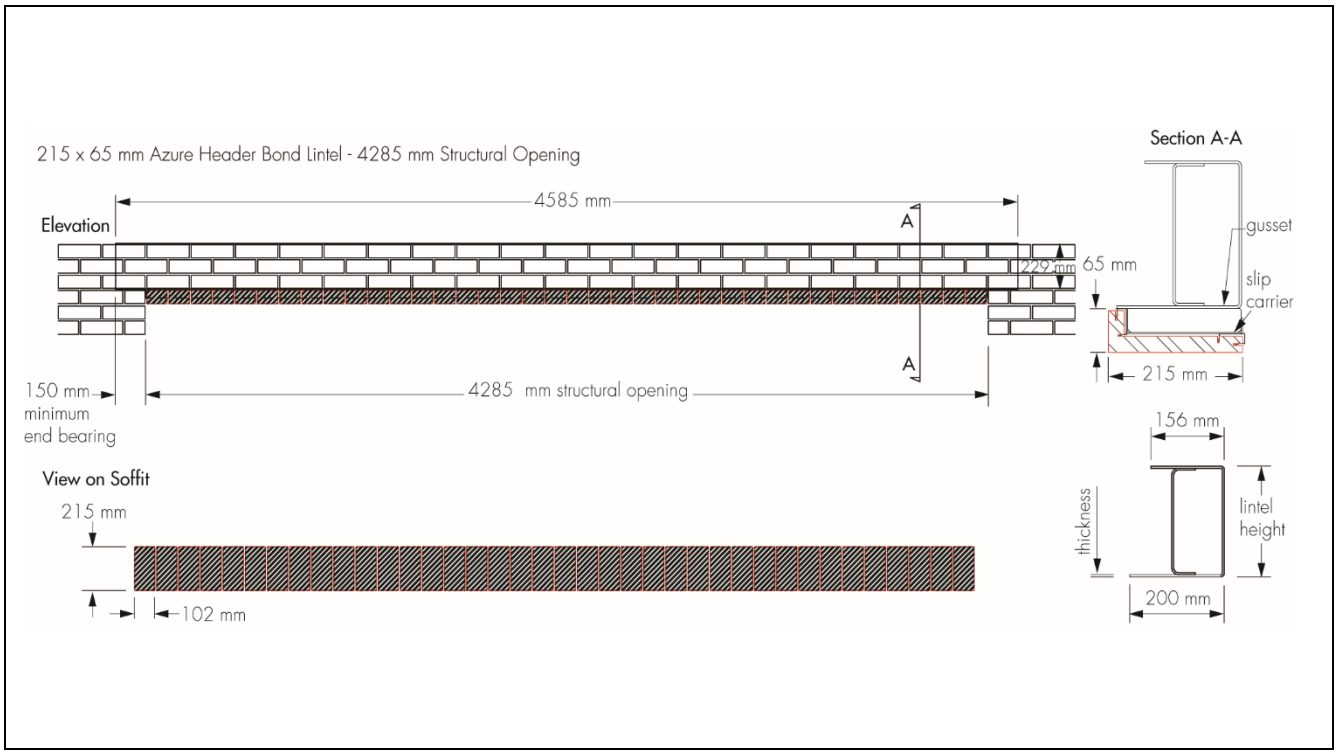


Figure 7 ACS CS Section lintel with soldier bond

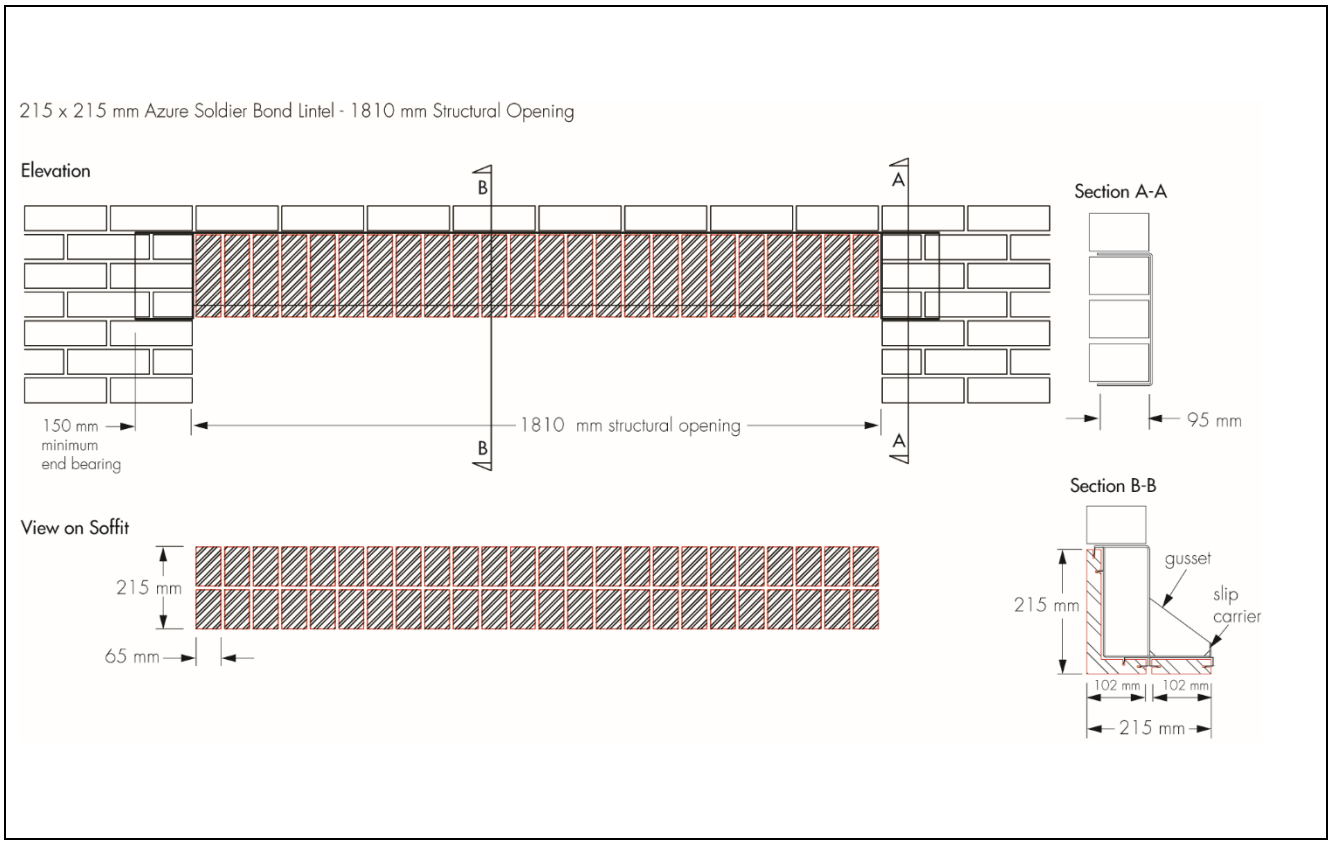
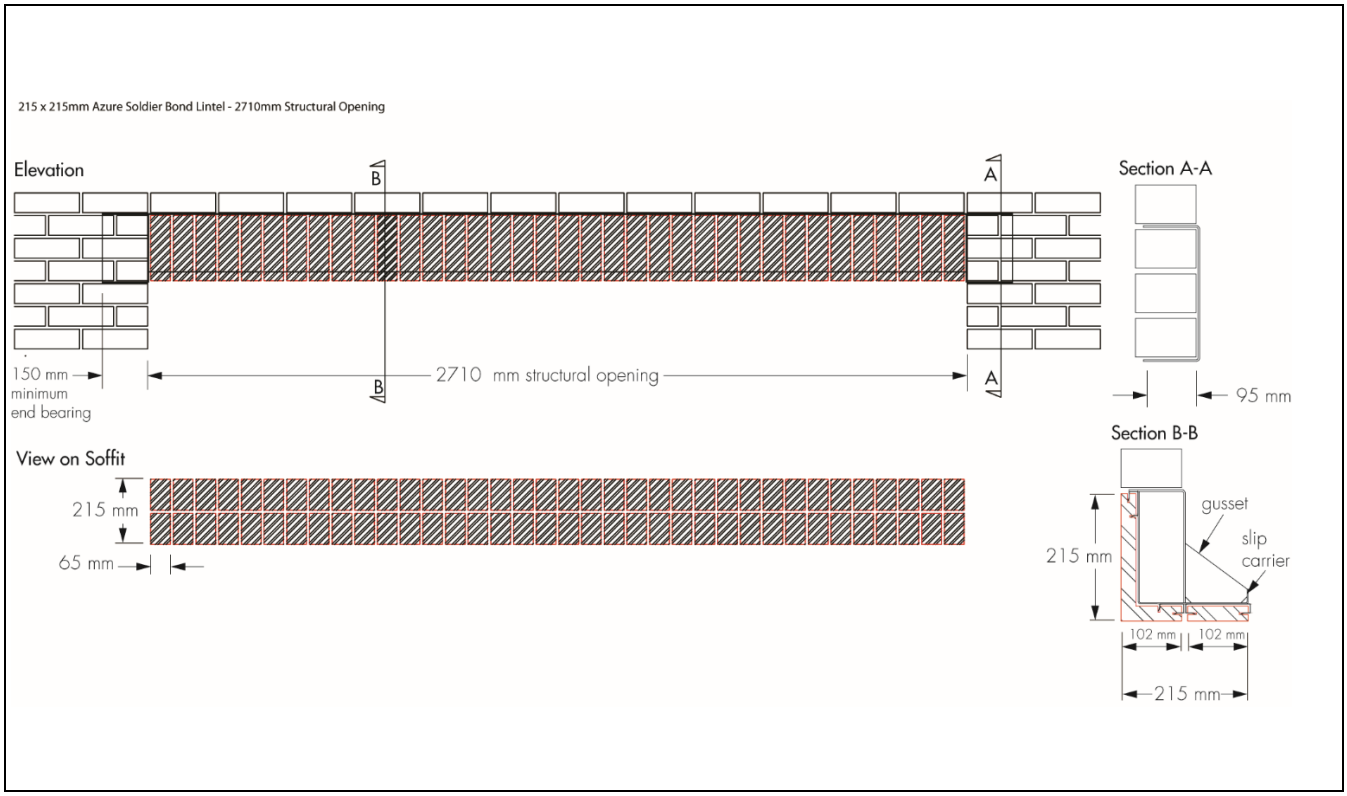


Figure 8 ACS CS Section lintel with soldier bond



Definitions for products and applications inspected

The systems are used in the external loadbearing leaf of cavity walls of brickwork and/or blockwork masonry construction to provide support to walls (external leaf loads only) above window or door openings and also to provide a brick finish to the face of openings. The internal leaf of the cavity wall will be supported by a separate lintel, which is outside the scope of this Certificate.

Product assessment – key factors

The systems were 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 total uniformly distributed (safe working loads SWL) for different spans (clear opening) are shown in Table 1.

Table 1 L1, C1, C2 and C Lintels range(1) — characteristics and safe working loads (SWLs)

Lintel types	Overall length(2) of lintel (mm)	Clear span (mm)	Length of brick slip zone (mm)	Height of lintel profile (mm)	Width of lintel (mm)	Thickness of steel profile (mm)	Mass ($kg.m^{-1}$)	Mass with brick slip ($kg·m^{-1}$)	Total uniformly distributed SWL(3) (kN)
L1(4) – Standard Duty (SD) (65 x 215 mm) Figures 1 and 4	600 - 2100	300 - 1800	up to 1800	167	95	2	10.63	20.54	6.20
C1(4) – Heavy Duty (HD) (65 x 215 mm) Figures 2 and 5	600 - 3000	300 - 2700	Up to 2700	229	95	3	15.93	26.35	16.00
C2(4) – Extra Heavy Duty (XHD) (65 x 215 mm) (XHD / 170) Figures 3 and 6	3001 - 4600	2701 - 4300	Up to 4300	229	170	4	31.14	41.79	64.97
C2(4) – Extra Heavy Duty (XHD) (65 x 215 mm) (XHD / 200) Figures 3 and 6	3001 - 4600	2701 - 4300	Up to 4300	229	200	4	32.10	42.90	74.33
CS(5) Section Figures 7 and 8	600 - 2100	300 - 1800	Up to 1800	229	95	3	14.40	32.46	12.00
CS(5) Section Figures 7 and 8	600 - 3000	300 - 2700	Up to 2700	229	95	4	16.25	47.36	9.00

(1) For ranges, please refer to Figures 1 to 8.
(2) All standard lengths are in 150 mm increments.
(3) SWL stands for Safe Working Load. For definition of SWL, refer to BS EN 845-2 : 2013.
(4) For L1, C1 and C2, stretcher and header bonds are available.
(5) For CS Section brick slip lintels, only soldier bond is available.

1.1.2 The loads have been derived from tests (carried out in accordance with BS EN 846-9 : 2016) supported by guidance in accordance with BS EN 845-2 : 2013 and with calculations in accordance with BS EN 1993-1-1 : 2022, BS EN 1993-1-3 : 2024, BS EN 1993-1-4 : 2006 and BS EN 1993-1-5 : 2006, and their UK National Annexes, and PD 6697 : 2019.

1.1.3 In order to obtain the SWL values given in Table 1 of this Certificate, the following modes of failure have been considered:

- flexural resistance
- shear resistance
- maximum deflection limited to span/360
- lateral-torsional buckling resistance
- local buckling resistance
- shear buckling resistance
- bearing resistance.

1.1.4 The following limitations apply:

- the load is from the external leaf only; a separate lintel is used to support inner leaf loads
- the end support bearing length should be a minimum of 150 mm.

1.1.5 The supporting masonry must be checked for bearing stresses. Reference should also be made to PD 6697 : 2019, and the technical specifications of the documents supporting the national Building Regulations, as appropriate.

1.1.6 The load-span data shown in Table 1 is valid up to the maximum SWLs and corresponding clear spans given.

1.1.7 On the basis of data assessed, ACS Azure II Brick Faced Lintels have adequate strength and stiffness to sustain the maximum SWL loads as shown in Table 1, subject to the following conditions:

- to avoid excessive eccentricities of loading, the lintels must only be used with standard masonry units, ie bricks or blocks with 100 to 102.5 mm widths. Cavity walls with separate inner and outer lintels must incorporate wall ties above the lintels (< 300 mm above the soffit) to tie the masonry leaves together
- the size of standard masonry units and clear span must not be exceeded
- the specified loads given in Table 1 of this Certificate are related to simply supported lintels, laterally and torsionally unrestrained. Therefore, there are no requirements for composite action with, or restraint by, adjacent elements of construction including the supported masonry to be considered
- where part of the loading is applied as concentrated loads, each concentrated load must be spread over a length of lintel of not less than 200 mm. In such cases, a case-specific design by a suitably experienced and competent individual must be done.

1.1.8 Loadbearing capacity and deflection limits of lintel units to BS EN 845-2 : 2003 when tested for flexural resistance and shear resistance to BS 846-9 : 2016 are given in Table 2 of this Certificate (test data must cover the ability of the pointed brick slips to remain uncracked at the deflection limit).

Table 2 Deflection at 1/3 Flexural Resistance and Deflection of Effective Span/325

Product assessed	Assessment method	Requirement	Result	
			Deflection at 1/3 Flexural Resistance	Deflection of Effective Span/325
L1 Lintel 1810 mm	BS EN 845-2 : 2003	Value achieved	3.93 mm	5.15 mm
C1 Lintel 2710 mm			2.91 mm	19.42 mm
XHD C2 Lintel 4285 mm			6.59 mm	88.89 mm

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 Reaction to fire

2.1.1 The stainless steel profiles, connecting rails and brick slips are classified as Class A1 in accordance with BS EN 13501-1 : 2018.

2.1.2 On the basis of data assessed, ACS Azure II Brick Faced Lintels will be unrestricted under the documents supporting the national Building Regulations.

2.2 Resistance to fire

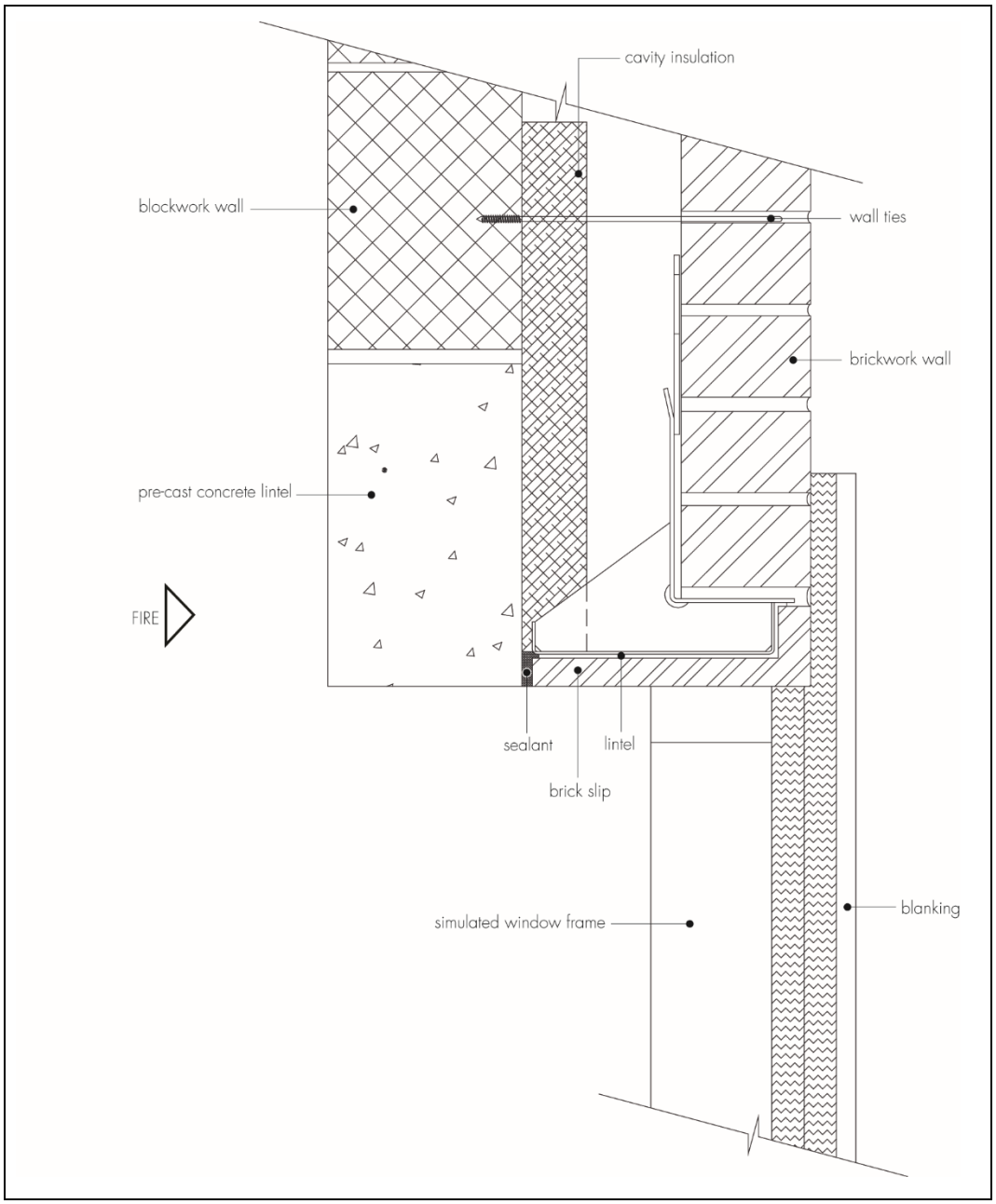
2.2.1 ACS Azure II Brick Faced Lintels are constructed with the same components as Azure Brick Slip Lintels which were tested (see Figure 9) utilising heating conditions under safe working load in accordance with BS EN 1363-1 : 2012, and no debonding was recorded for 104 minutes. See Table 3 and Figure 9 of this Certificate for details.

Table 3 Fire resistance in terms of load bearing capacity

Product	Construction	Method / Report Reference	Result
ACS Azure II Brick Faced Lintels	• brick wall: - 100 mm single skin external brick leaf. - 10 mm fully filled mortar joints. • pre-cast concrete lintel: 250 x 150 mm • block wall: - 150 mm single skin of thermalite block. - 10 mm fully filled mortar joints. • ACS Azure lintel : 167 x 95 x 3 mm and 2110 mm long • brick slip: 215 x 102.5 x 65 mm • cavity insulation: 50 mm Kingspan Insulation Ltd • wall ties: 186 x 105 mm x 4.9 mm diameter • sealant: Intumescent Acrylic Sealant • simulated window frame: 95 x 45 mm Softwood • blanking: - 9 mm calcium silicate board - 50 mm alkali silicate insulation	BS EN 1363-1 : 2012(1)	132 minutes load bearing capacity and no debonding / delamination of brick slips was recorded until 104 minutes

(1) EXOVA Warrington fire Test Report No. 388403, Issue 3, available from the Certificate holder for additional details.

Figure 9 Fire resistance test construction



3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Condensation

3.1.1 Example constructions shown in Table 3 of this Certificate, were analysed numerically to BS EN ISO 10211 : 2017, BRE Information Paper IP 1/06 : 2006 and BRE Report BR 497 : 2016 and achieved minimum surface temperature factors in excess of 0.90.

3.1.2 On the basis of the data assessed and under normal domestic conditions, the level of interstitial condensation associated with the systems will be low and the risk of any resultant damage minimal.

3.1.3 For other constructions, the risk of surface condensation will be minimal when the minimum temperature factors are not less than the relevant values in BRE Information Paper IP 1/06 : 2006.

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 characteristics.

6.1 Thermal performance

6.1.1 Example constructions shown in Table 4 of this Certificate, based on the construction details shown in Figures 1 to 4, were analysed numerically to BS EN ISO 10211 : 2017 and BRE Report BR 497 : 2016 to determine the linear thermal transmittance, psi value.

Table 4 Linear thermal transmittance, ψ-values, for lintel junctions

Product assessed	Assessment method	Requirement	Result ($W \cdot m^{-1} \cdot K^{-1}$)
ACS L1 – 1810 mm opening	$\Psi^{(1)(2)(3)(4)}$ values to BS EN ISO 10211 : 2017 and BRE Report BR 497 : 2016	Value achieved	0.043
ACS C1 HD – 2710 mm opening			0.043
ACS C2 XHD – 4285 mm opening			0.11
ACS CS Section – 1810 mm opening			0.043
ACS CS Section – 2710 mm opening			0.043

(1) Assumes 50 mm window frame which overlaps the cavity by 37.5 mm. Wall construction: 102.5 mm brickwork (λ = 0.77 $W \cdot m^{-1} \cdot K^{-1}$), 50 mm low-E vented cavity – see note (2), PIR – see notes (2) and (3), insulation (λ = 0.021 $W \cdot m^{-1} \cdot K^{-1}$), 100 mm blockwork ($\lambda$ = 0.162 $W \cdot m^{-1} \cdot K^{-1}$), 15 mm plaster ($\lambda$ = 0.57 $W \cdot m^{-1} \cdot K^{-1}$).
(2) 150 mm cavity width, comprising 50 mm vented cavity adjacent (R = 0.66 $m^2 \cdot K \cdot W$), 100 mm PIR insulation.
(3) Internal lintel assumed to be 100 x 220 mm dense concrete with 2% reinforcement, λ = 2.5 $W \cdot m^{-1} \cdot K^{-1}$.
(4) Approved psi value of 0.3 $W \cdot m^{-1} \cdot K^{-1}$ may be used when the gauge of the steel lintel is less than, or equal to, 3 mm and there is a 30 mm overlap of the window frame over the cavity.

6.1.2 On the basis of data assessed, the calculated values in Table 4 can be used in energy and carbon emission rate calculations. The performance of other constructions must be in accordance with the documents supporting the relevant national Building Regulations.

7 Sustainable use of natural resources

The stainless steel profiles, connecting rails and the brick slips (which contain fired clay) can be recycled.

8 Durability

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

8.2 The brick slips will have an equivalent durability to the bricks from which they were cut. Bricks must achieve an F2 classification, in accordance with BS EN 771-1 : 2011.

8.3 Service life

Under normal service conditions, the systems will have a life equivalent to the building in which they are incorporated, in excess of 60 years, provided they are 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 assessed in this Certificate.

9.1.2 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, and their UK National Annexes. Reference must also be made to PD 6697 : 2019, and the technical specifications of the documents supporting the national Building Regulations, as appropriate.

9.1.3 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.

9.1.4 For junction details other than those shown in Table 4 of this Certificate, the linear thermal transmittance and temperature factor must be calculated following the guidance given in BRE Report BR 497 : 2016, or a 'conservative default' psi value of 1.0 $W \cdot m^{-1} \cdot K^{-1}$ may be used.

9.1.5 If designed appropriately, head details incorporating the lintels (eg exposed floor junctions with insulated lintels) will adequately limit excessive heat loss.

9.1.6 To comply with *NHBC Standards* 2026 in Scotland, Northern Ireland, Isle of Man, and areas of *severe* and *very severe* exposure as detailed in BRE Report BR 262 : 2002, separate damp-proof course (DPC) protection must be provided over the lintels and stop ends.

9.1.7 A cavity tray over the lintel must be provided under all exposure conditions and installed in accordance with BS 8215 : 1991 and the *NHBC Standards* 2026, Chapter 6.1 *External masonry walls*. The installation must incorporate appropriate stop ends to direct moisture out of the cavity.

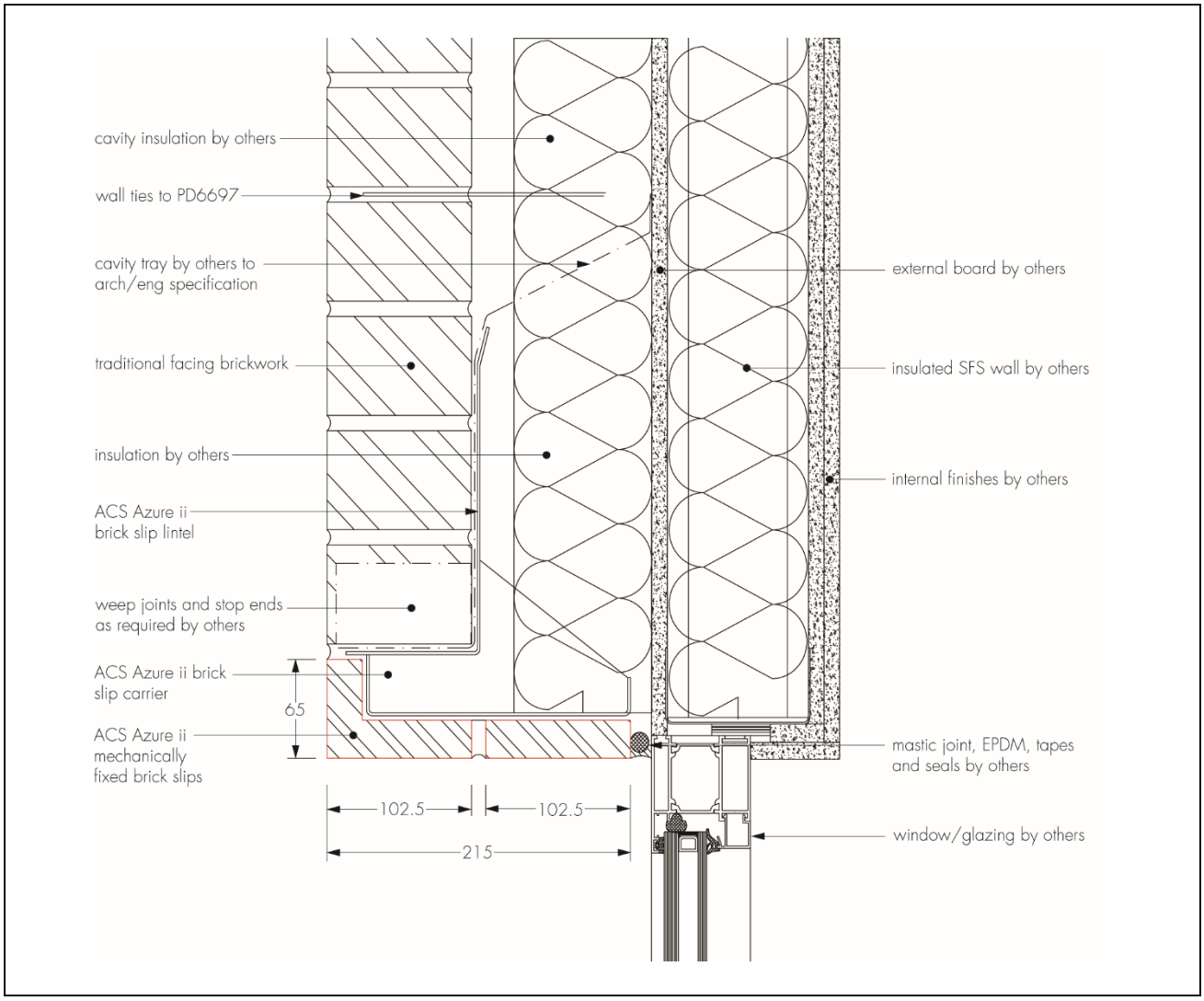
9.1.8 Cavity tray weep-holes must be provided in the outer leaf above the lintels to drain moisture from the cavity. A minimum of two weep-holes should be provided per lintel. For fair-faced masonry, weep-holes should be provided at centres not greater than 450 mm (See Figure 10).

9.1.9 In accordance with the Certificate holder's recommendations, lintels over 1000 mm of clear span must be suitably propped during construction using a central prop. A board must be used between the lintel and prop to protect the finished surface and spread the load evenly.

9.1.10 Precautions must be taken to prevent mortar dropping through the cavity onto the lintels and obstructing the weep-holes.

9.1.11 Brick slips must be pointed using the same mortar as the rest of the brickwork, but only after removal of the temporary propping and after the full load has been applied to the lintel. Pointing lintel soffits should be conducted using a pointing gun. Pointing should not take place in wet weather or in temperatures below 3°C.

Figure 10 Typical details for cavity trays above lintels (section view) (dimensions in mm)



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 in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 Lintels must be installed with at least 150 mm end bearing and be fully bedded on mortar. Lintels must be level along length and width and should be positioned centrally over the opening such that the minimum bearing is achieved on both sides.

9.3 Workmanship

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

9.4 Maintenance and repair

The Certificate holder has stated maintenance is not required. If the brick finish becomes damaged or stained, the advice of the Certificate holder should be sought.

10 Manufacture

10.1 The production processes for the systems 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 lintels are delivered to site or to builders' merchants at specified lengths, each carrying a label bearing the Certificate holder's name. The BBA logo incorporating the number of this Certificate is marked on each lintel.

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

11.2.1 Reasonable care must be taken during unloading and storage of lintels, to avoid impact and abrasion or damage to their surface or integrity.

11.2.2 The lintels can generally be handled manually, except for the longer span lintels which incorporate lifting lugs for mechanical handling equipment. Protective gloves should be worn when handling the systems.

11.2.3 The lintels must be stored off the ground on well-drained, puddle-free hardstanding. The lintels are delivered on pallets and must not be stacked.

† ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the systems 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 of BS EN ISO 9001 : 2015 by the Steel Certification Scheme (Certificate Registration 2370407)

Additional information on installation

A.1 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.

A.2 Masonry must be laid on a full mortar bed and all perpendicular joints fully filled. The mortar must be allowed to cure before applying floor or roof loads.

Bibliography

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

BRE Report BR 497 : 2016 *Conventions for calculating linear thermal transmittance and temperature factors*

BS 4729 : 2005 + A1 : 2016 *Clay bricks of special shapes and sizes — Recommendations*

BS 8215 : 1991 *Code of practice for design and installation of damp-proof courses in masonry construction*

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 1090-1 : 2009 + A1 : 2011 *Execution of steel structures and aluminium structures — Requirements for conformity assessment of structural components*

BS EN 1363-1 : 2012 *Fire resistance tests — General requirements*

BS EN 1993-1-1 : 2022 *Eurocode 3. Design of steel structures — General rules and rules for buildings*
NA + A1 : 2014 to BS EN 1993-1-1 : 2005 + A1 : 2014 UK National Annex to *Eurocode 3: Design of steel structures — General rules and rules for buildings*
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BS EN 1993-1-5 : 2006 *Eurocode 3. Design of steel structures — Plated structural elements*
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BS EN 10088-2 : 2014 *Stainless steels — Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

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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*

Conditions

1 This Certificate:

- relates only to the product 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
- 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
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

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.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product 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.

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

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

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product 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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