



Certificate

Certificate No.

R41245-1

Issue date

28-04-2024

Expiration date

27/04/2027

This is to acknowledge that

**RJ Facade Systems Ltd,
Briklok**

Mechanical Bricksip Cladding System

- Briklok Brick Slip Rainscreen Cladding System

Evaluated and meets the requirements of the certification scheme.

**BSFO - Performance of Cladding and Cladding
Supports Systems for use in the United
Kingdom Systems V2.0**

Certificate for the UL Mark – Performance of Cladding and Cladding Supports Systems for use in the United Kingdom

Section 1 – Certificate Details

Customer Name:	RJ Facade Systems Ltd Briklok Brick Slip System	Certification Body:	UL International (UK) Ltd
Customer Address:	Unit 36c Inchmuir Road Whitehill Industrial Estate Bathgate EH48 2EP	Certification Body Address:	Halesfield 2 Telford Shropshire TF7 4QH
UL Scheme:	BSFO - Performance of Cladding and Cladding Supports Systems for use in the United Kingdom Systems V2.0	Certificate Number:	R41245-1
Date of Certification Commencement:	28 th April 2024	Date of Certification Expiry:	27 th April 2027
Certificate Compiled by:	Mark Swanborough Engineering Leader	Certificate Approved by:	Michael Wass Business Manager
Signed:		Signed:	

Section 2 – Product covered by this Certificate



System Name	System Type
Briklok Brick Slip Rainscreen Cladding System	Mechanical Brick slip Cladding System
This Certification Covers • A detailed overview of the certified product • An initial assessment of the certified company's factory production control system. • A review of the product's documentation to help demonstrate compliance with the applicable requirements of the NHBC standard 2023 chapter 6.9. • An assessment of the certified product's contribution to any key requirements of the building regulations. • An overview of the certified company's product installation requirements and procedures. • An overview of all supporting test documentation used for the product evaluation. • Ongoing surveillance of the certified company's factory production control system and procedures. • The conditions under which this product certification is valid.	

Certificate Assessment Criteria

The certification evaluates the performance of the façade / cladding system using CWCT sequence B – Standard for systemised building envelopes 2005. The assessment includes the SFS support structure for through wall considerations of:

- Air leakage (infiltration and exfiltration) – CWCT section 5
- Water penetration (static and dynamic) – CWCT section 6, 7 & 9
- Wind resistance (serviceability and safety) – CWCT section 11 & 12
- Impact testing (retention of performance & safety to persons) – CWCT TN76

Section 3 – Product Specification and full description of the certified product

The Briklok Brick Slip Cladding System and RJ Facades support system is a Mechanical Brick-slip system. The brick-slip material is a traditional brick manufactured using standard methods from a non-combustible clay material, that is cut and grooved to produce the brick slip. The brick slips are installed into an continuous interlocking aluminium profile with horizontal and vertical supports to create a protective cladding over building substructures consisting of steel frames systems, concrete, masonry and timber constructions.

- 3.1 The Briklok system enables a real brick-slip to be mechanically supported in a horizontal or vertical position using an interlocking anodised aluminium profiles 6063T6 (figure 1) in accordance with BS EN 755-9 : 2016. The system comprises the three profiles in figure 1, with the addition of a movement joint upper profile to be used with the movement joint brick slip, and a soldier course span profile for vertical running bond designs.

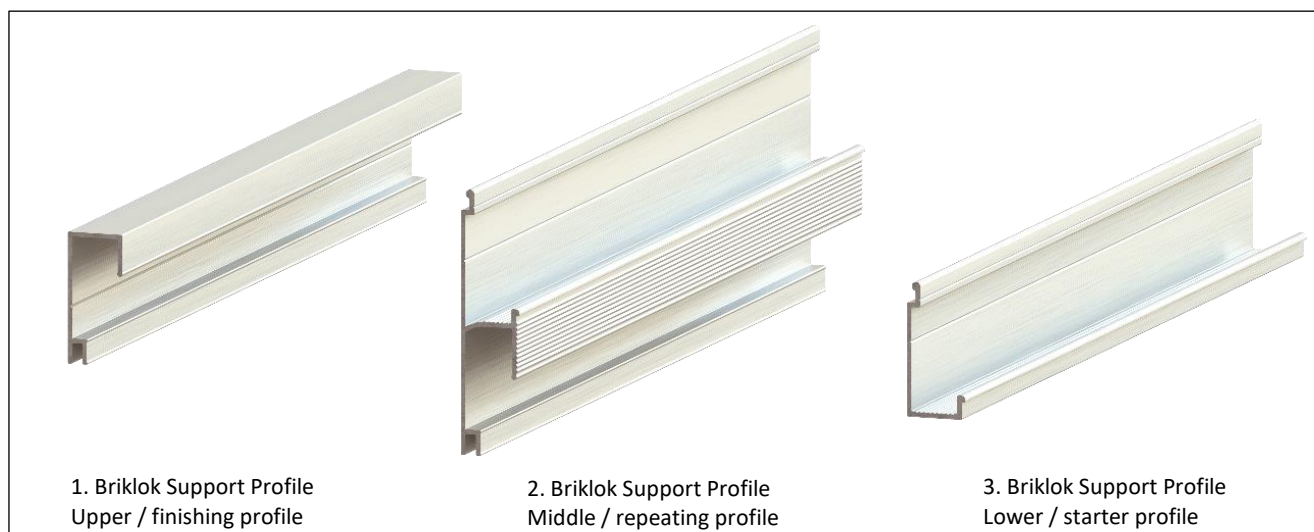


Figure 1. Briklok support profiles

- 3.2 The top kerf should have a minimum of 2mm connection to the brick prior to mortar, as tested at CWCT sequence B test. UL report number R4791092526 REV 1.. Typically the Briklok system allows for a minimum of 3mm.

The Briklok system is designed to work with natural real bricks. During the manufacturing process a 'real' brick will experience varying levels of shrinkage dependant on the type of clay. In general terms the typical UK brick, Ibstock FC 'standard' range will be 63-65mm in height, and the engineering type brick will be 64-67mm.

Design layouts of brick courses are typically 75mm in the UK, to accommodate the tolerance of the bricks the Briklok support system offers a system for the 'standard' and the 'engineered' brick. The only variation is the upper kerf is 2mm shorter on the XL version to account for the height of the bricks, Figure 2.

The specification of the support system will be made at the design stage of the project subject to the brick selection.

Briklok support profile lower and Briklok MJ support profile are compatible with both the 'standard' and 'XL' support profiles.

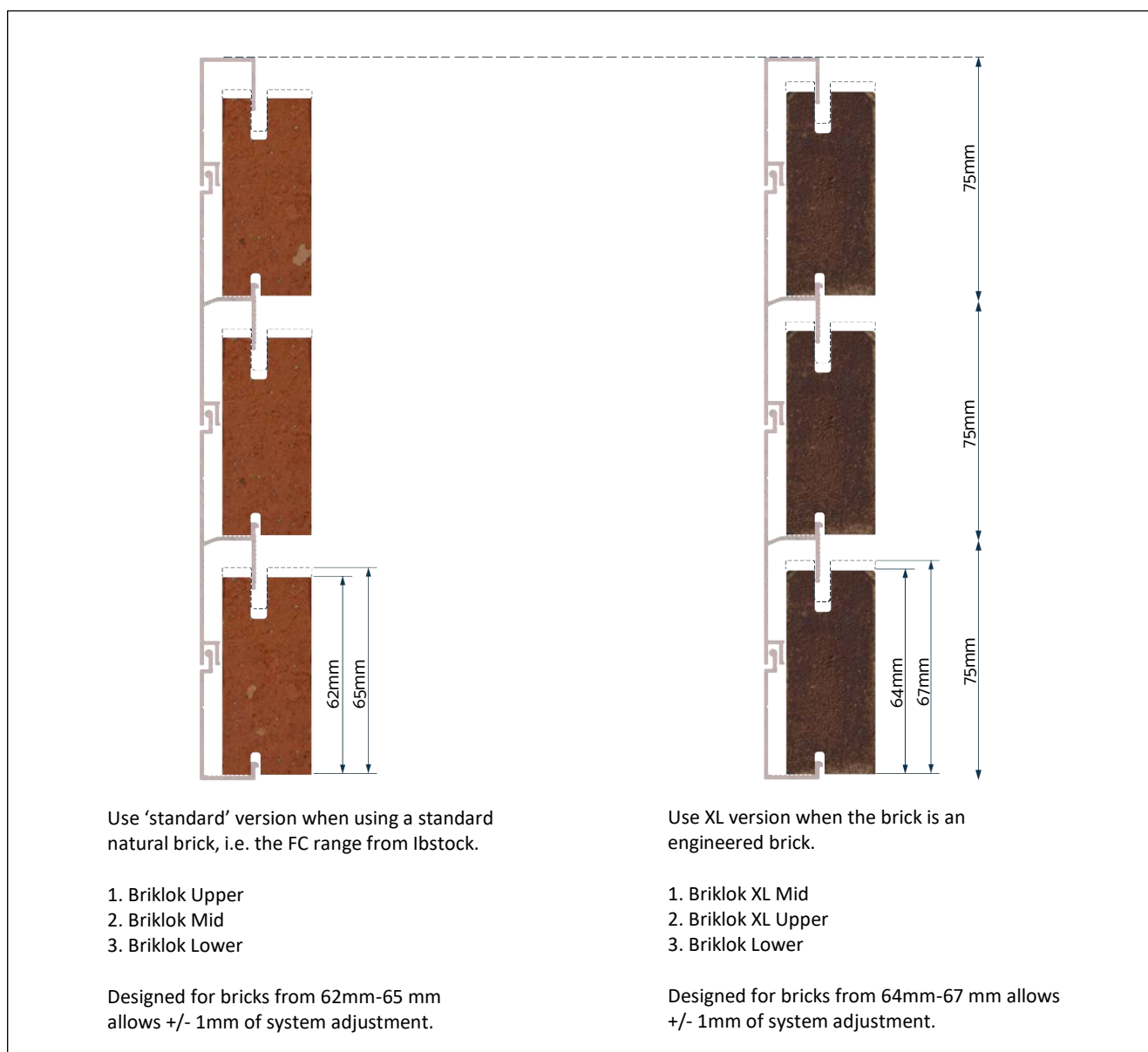


Figure 2 Briklok 'standard' and Briklok 'XL' profile comparison

- 3.3 The Briklok support profile is connected to the RJF vertical or horizontal sub structure using self-drilling colour coded Ejot Tek screw JT9-4-4.8 x 19 A4 (Orange) figure 2. Each Briklok profile to be fixed at the end of each profile, using a staggered / full fixing method as CWCT sequence B tested. Ejot Tek screws achieve relevant ETA approval 10-0200.

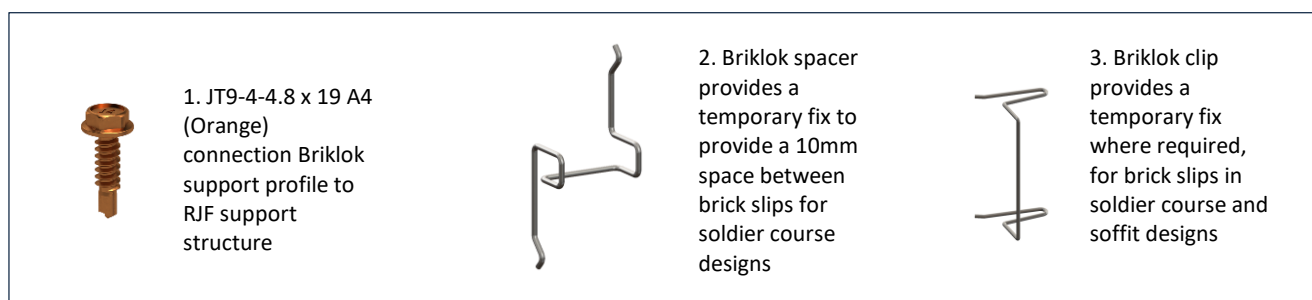


Figure 3. Fixing connection for Briklok support profiles & Briklok spacer and spring clip for soldier course designs

- 3.3 The brick slips used in the Briklok system enable light weight construction are well suited for applications, such as high-rise buildings. Manufactured in UK by Ibstock the brick offers A1 fire rated, F2 Frost rated, CWCT system compatibility tested, manufacturer declaration of performance to BS EN 771-1:2011+A12015. The range has a large range of colours and textures, with standard sizes (figure 3), with bespoke sizes and bespoke profiles available.

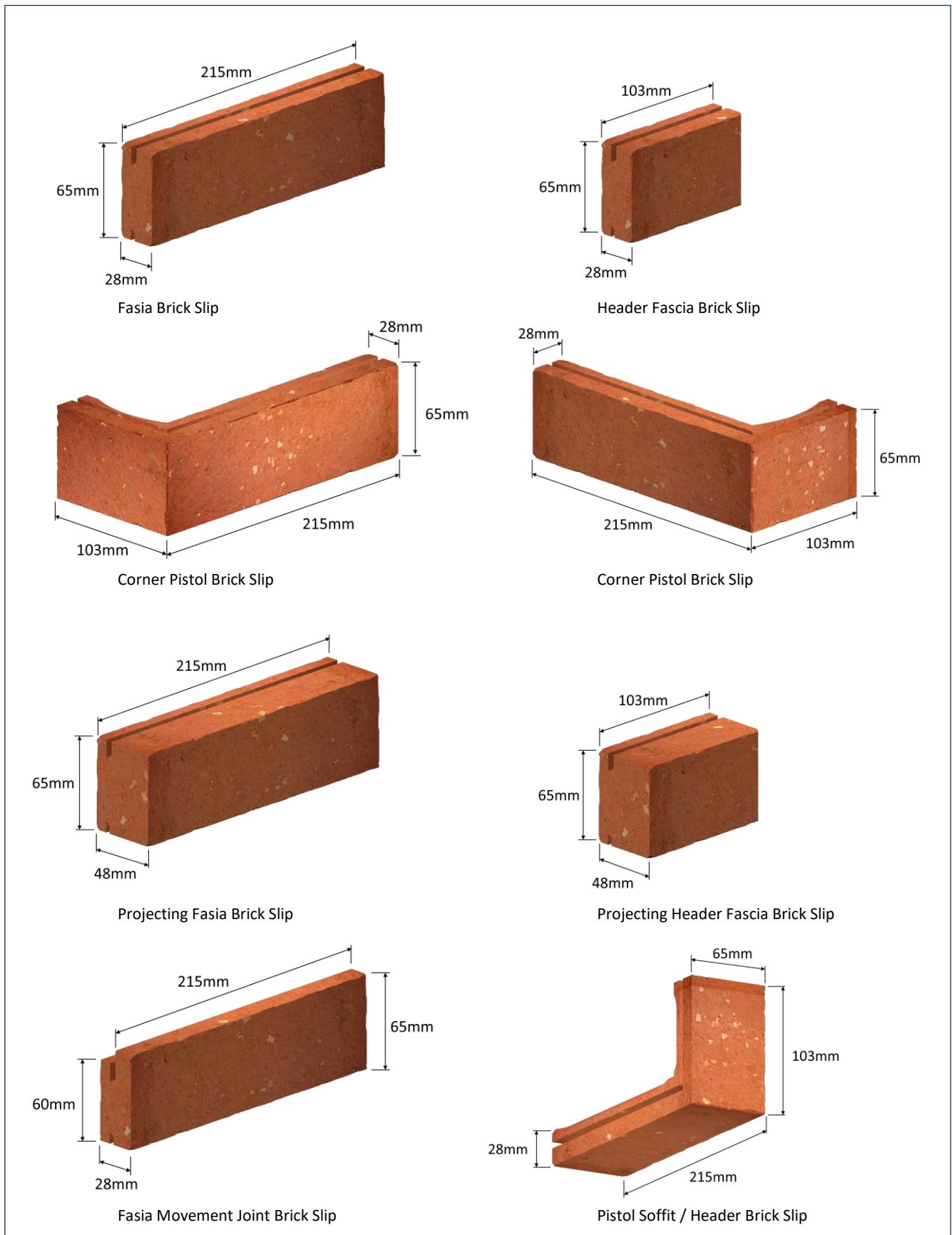


Figure 4. Brick slip profile types

- 3.4 The joints (horizontal and vertical) are pointed using Parex Historic Mortar KL a traditional hydrated lime, sand, GGBS mortar. Consistent in both colour and finish, Parex Historic Mortar KL is pumped deep into the joint, providing a complete fill and a degree of flexibility. Approval certificate BS EN 998-2:2016.

- 3.5 The RJ Facade Systems EVT II support structure, UL certified to UKAS accreditation *Performance of Rainscreen Cladding Support Systems BSFO*, Certificate Number R40530-1 Rev 4, tested at CWCT sequence B test. UL report number R4791092526 REV 1.

The relevant parts for Briklok system include (figure 5) include EVTII Helping Hand Wall Brackets (figure 6), EVT Vertical and Horizontal Rail Types (figure 7), & suitable fixings for aluminium component assembly and aluminium supports to building substrates (figure 8).

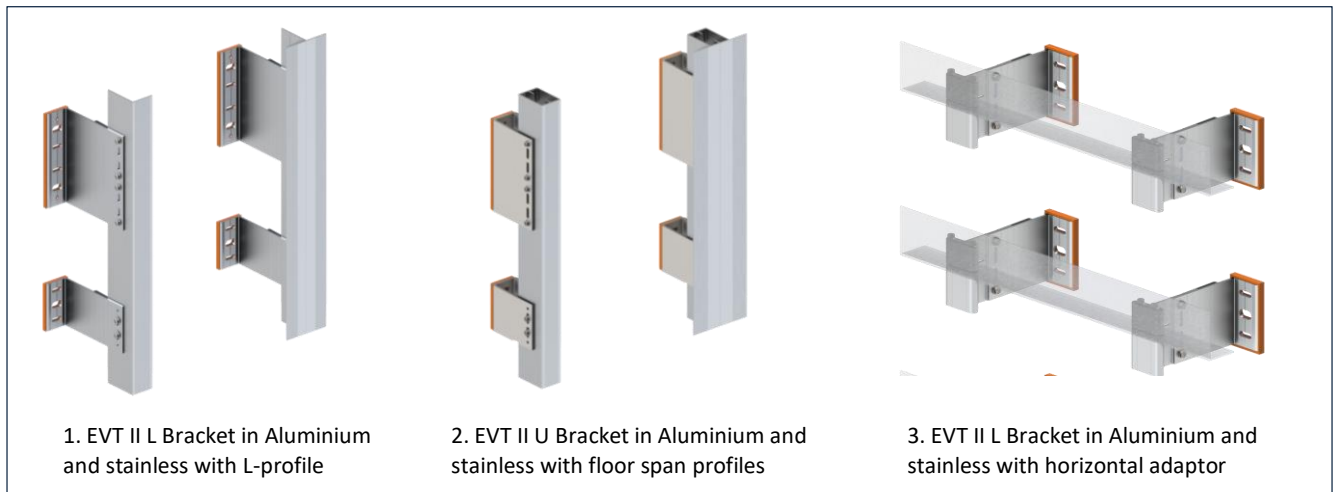


Figure 5. Typical RJ Facade System - EVT II support structure assemblies for supporting Briklok profiles



Figure 6. EVT II wall brackets, Certificate Number R40530-1 for full references and technical information

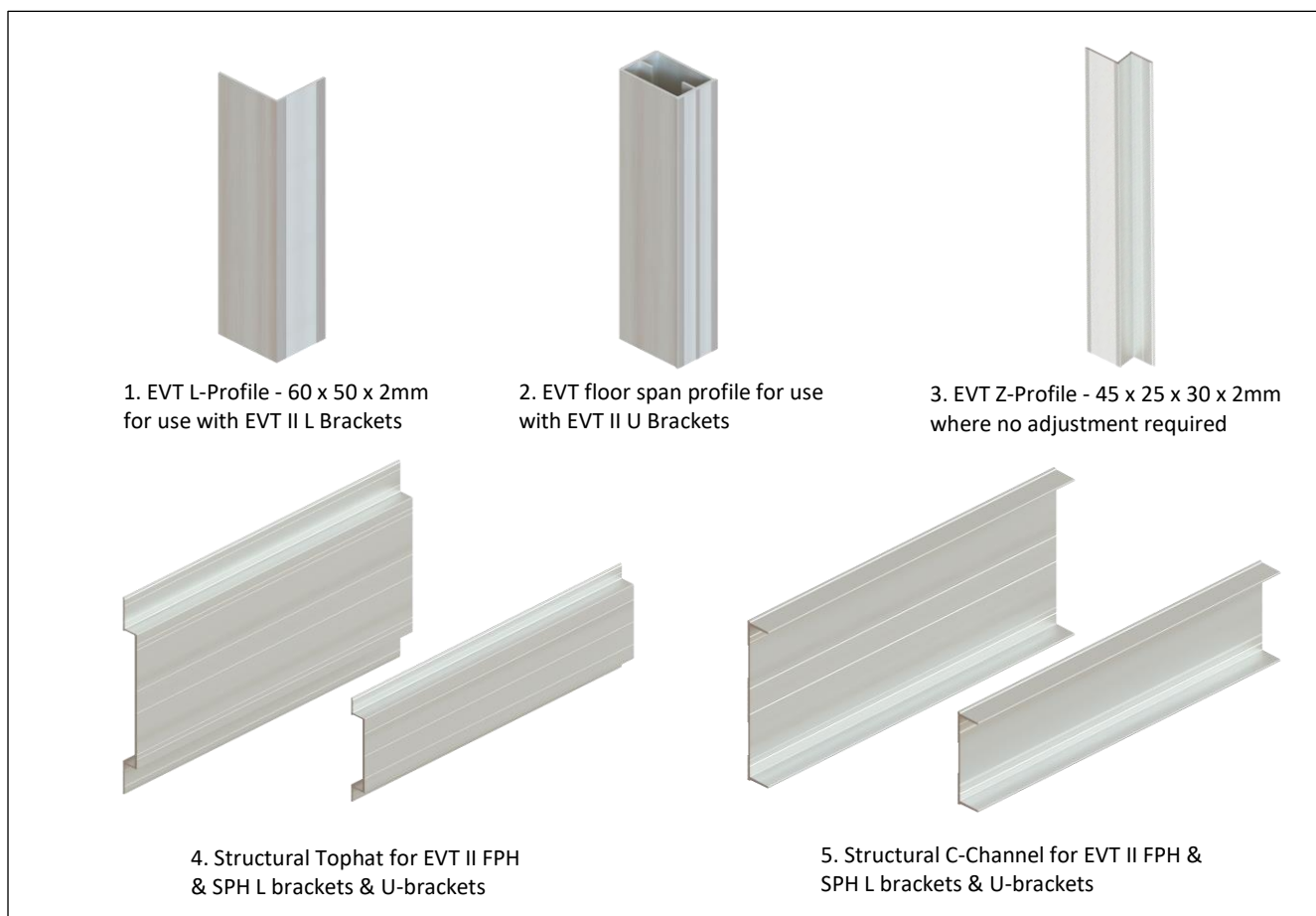


Figure 7. EVT system profiles, Certificate Number R40530-1 for full references and technical information

The below references are frequently specified methods to fix to standard building substrates, please always refer to the RJ Facades calculation for confirmation.

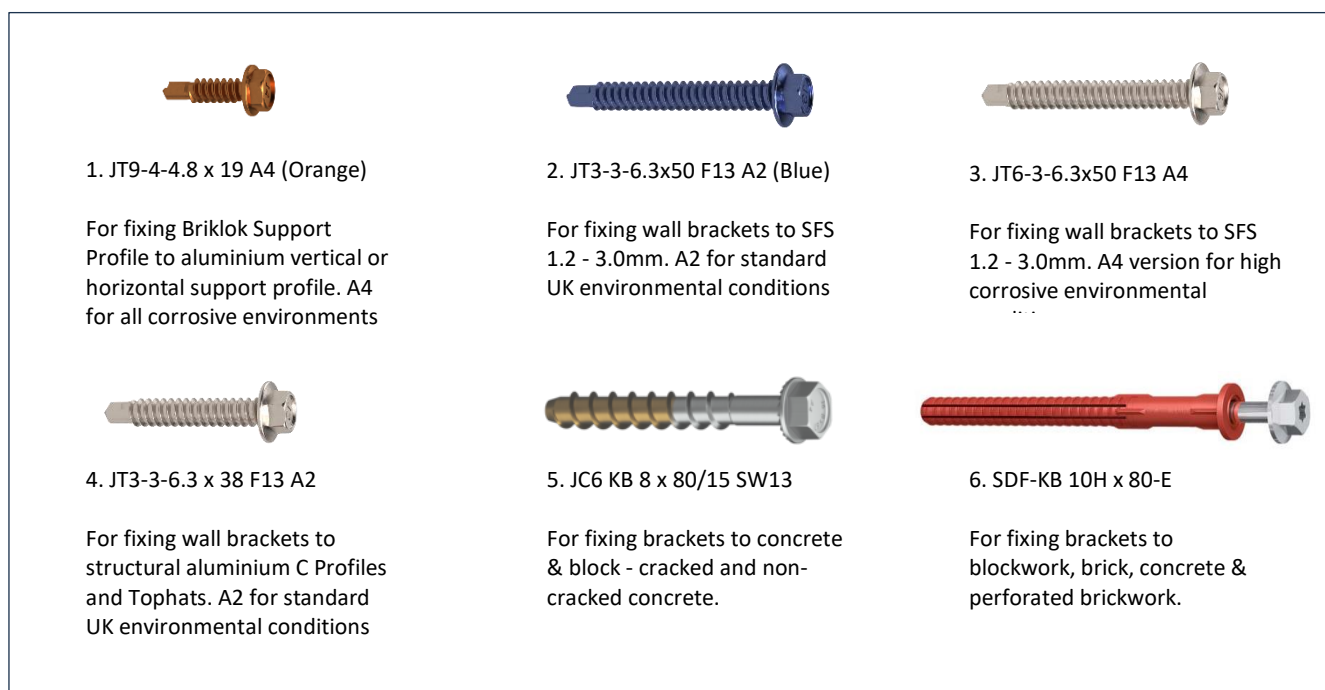


Figure 8. Briklok & EVT II System ETA fixings for steel concrete & masonry, full list in Certificate Number R40530-1

3.6 Typical Briklok and Ibstock brick slip external façade detailing

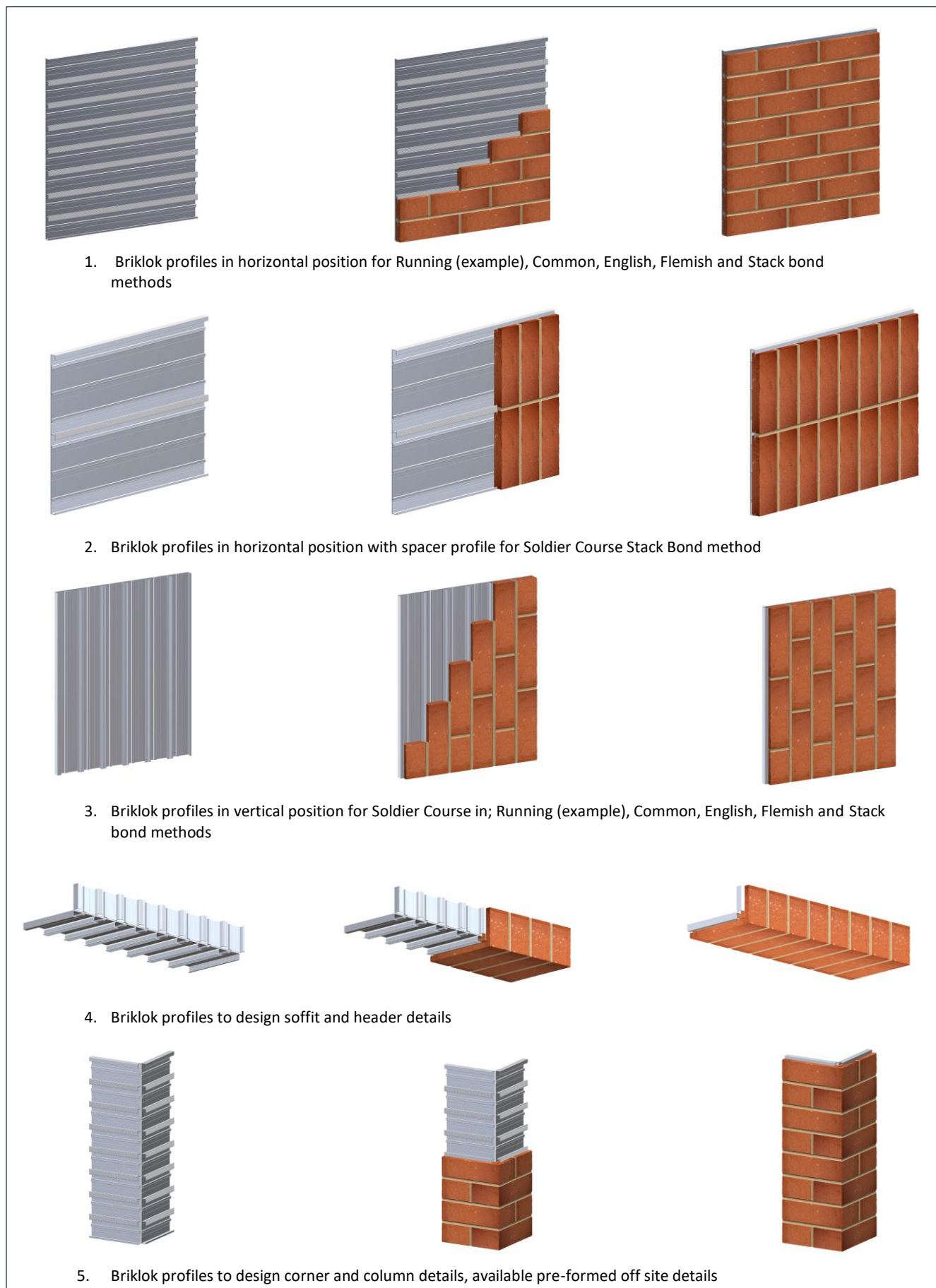


Figure 9. examples of standard details tested at CWCT sequence B test. UL report number R4791092526 REV 1.

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3.7 Typical Briklok, EVT II support structure and Ibstock brick slip cut through details



Figure 10. Briklok Support Profile interlocking design



Figure 11. Rear of panel provides a solid cavity wall to aid cavity barrier installation

3.8 Typical Briklok offsite pre-formed corner detailing for corners used in column and window reveal details, detail tested at CWCT sequence B test. UL report number R4791092526 REV 1.

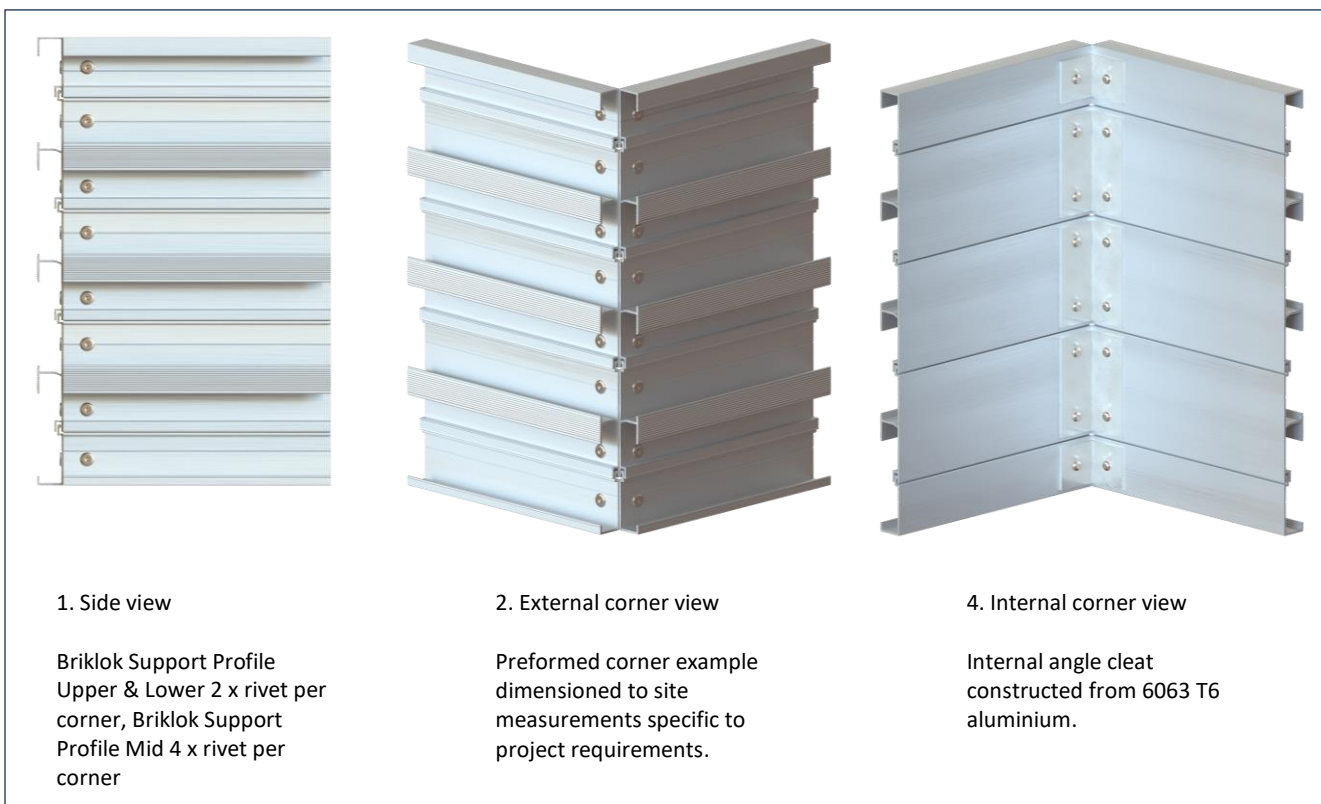


Figure 12. Briklok Support Profile offsite pre-formed corner detailing

The preformed corner is a short length assembled to a longer length of the same profile, to create the corner or return of a building. Each piece is then fitted together on site to provide the finished detail. Figure 16 for design example.

Constructing the corner with individual pieces connected to the subframe are also acceptable details, detail also tested at CWCT sequence B test. UL report number R4791092526 REV 1.

3.9 Briklok system parts list

Briklok profiles – for bricks 62-65mm in height

<i>Code</i>	<i>Description</i>
167393	Briklok MJ Profile Anodised (3.0m Length)

167379	Briklok Upper Profile Anodised (3.0m Length)
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167380	Briklok Mid Profile Anodised (3.0m Length)
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167391	Briklok Soldier Spacer Anodised (3.0m Length)
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167381	Briklok Lower Profile Anodised (3.0m Length)
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Briklok 'XL' profiles – for bricks 64-67mm in height use below profiles in upper and mid position

<i>Code</i>	<i>Description</i>
167421	Briklok XL Upper Profile Anodised (3.0m Length)

167420	Briklok XL Mid Profile Anodised (3.0m Length)
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Briklok fixings & temporary brick support spacer and clip

<i>Code</i>	<i>Description</i>
7380387703	JT9-4-4.8 x 19 A4 (Orange)

167401	Briklok Spacer
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167402	Briklok Clip
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4.0 Typical Briklok fixing detail using JT9-4-4.8x19 (Orange) for securing Briklok support profile, as tested at CWCT sequence B test. UL report number R4791092526 REV 1.

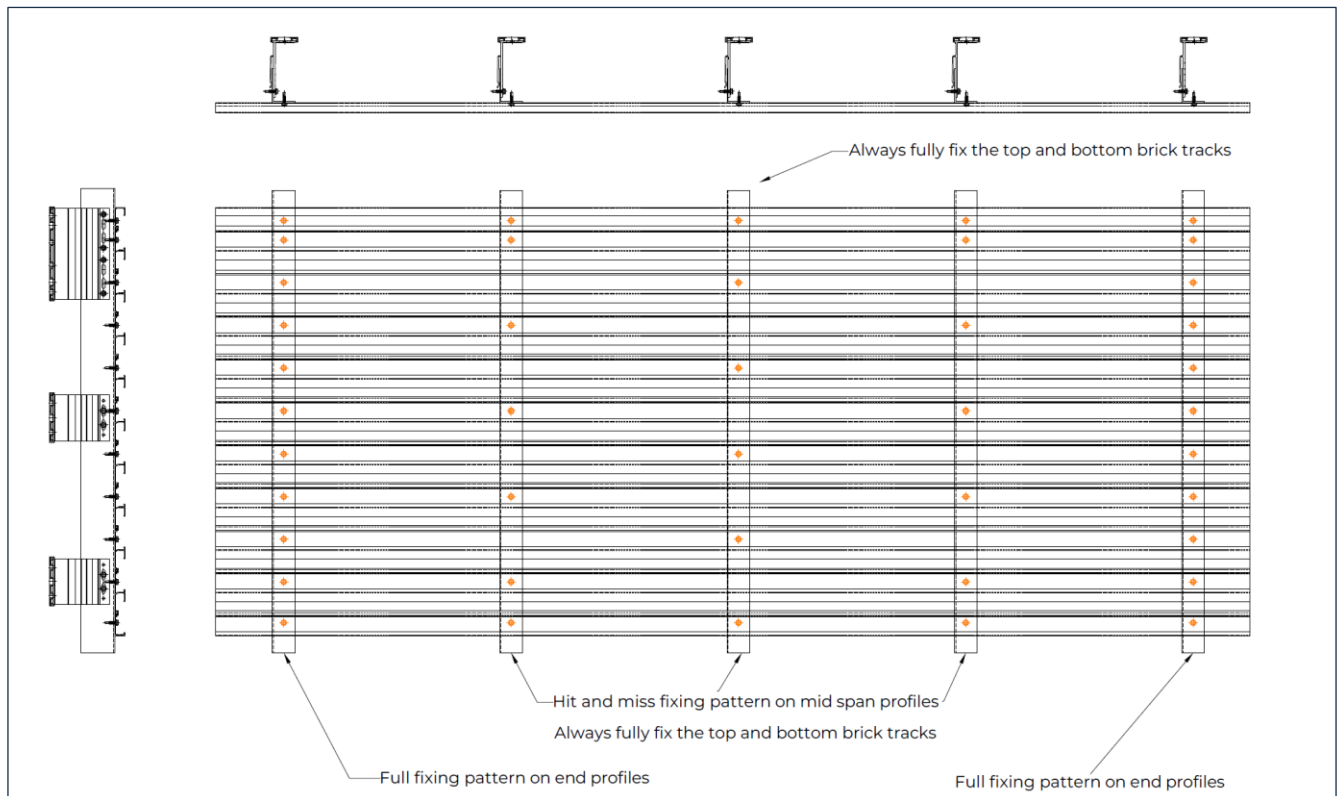


Figure 13. Typical fixing pattern used for fixing Briklok profiles to vertical or horizontal support profiles.

Section 4 – Factory Production Control

RJ Facade Systems Ltd supply brick slip cladding systems into the UK market. The company head office is situated in Bathgate in the UK. The aluminium and stainless brackets, carriers and components are fabricated at UK locations. The Brick slips are manufactured by Ibstock at various UK locations. All items are dispatched/transported directly to the end client or to the Bathgate based warehouse prior to distribution to the client. The certificate incorporates the partnership between RJ Facade Systems Ltd and their UL approved supply chain to produce the Briklok Brick Slip Cladding System.

An initial factory production control audit has been carried out at the certified product's manufacturing sites to assess the effectiveness of the following:

- Contract review – enquiries, quotations and orders
- Production planning and organisation
- Control of purchasing, including supplier approvals
- Control and storage of incoming materials and components
- Control of documentation related to the production, quality control/inspection, packaging and despatch
- Identification and traceability of certified products
- Ongoing production inspection, testing and records thereof
- Maintenance of production equipment
- Training Records of personnel
- Internal audit reports including non-conformances and corrective actions
- Customer complaint procedures
- Installation guide and processes
- Non-conforming products
- Labelling of products

UL International (UK) Ltd, witnessed the production processes at the locations described above and it can be confirmed that procedures and controls were carried out as specified/documented and were in line with the UL BSFO certification scheme requirements. All of the manufacturing sites will be subjected to annual surveillance audits to ensure ongoing compliance and effectiveness.

Section 5 – Design documentation review of the certified product

A review of the certified product’s documentation was conducted in order to help demonstrate compliance with the appropriate sections of the NHBC Standard requirements section 6.9 and the scheme document. At least the following requirements were evaluated in the review and were found to show evidence that complies. Below are design details as tested in CWCT Sequence B, UL report number R4791092526 Rev 1.

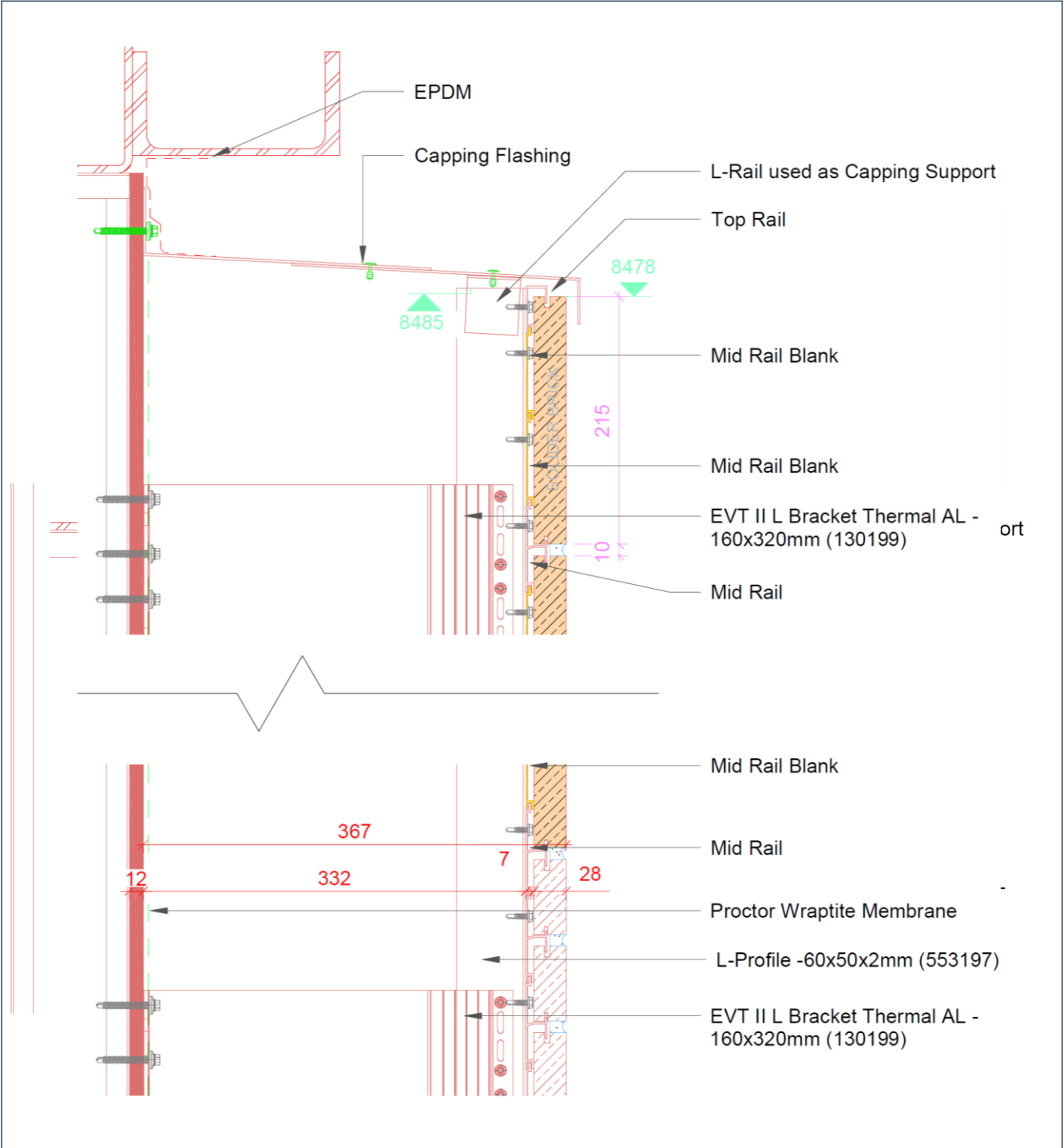


Figure 14. Flashing detail, vertical stack bond using Briklok spacer profile, as tested at CWCT Sequence B, UL report number R4791092526 Rev 1

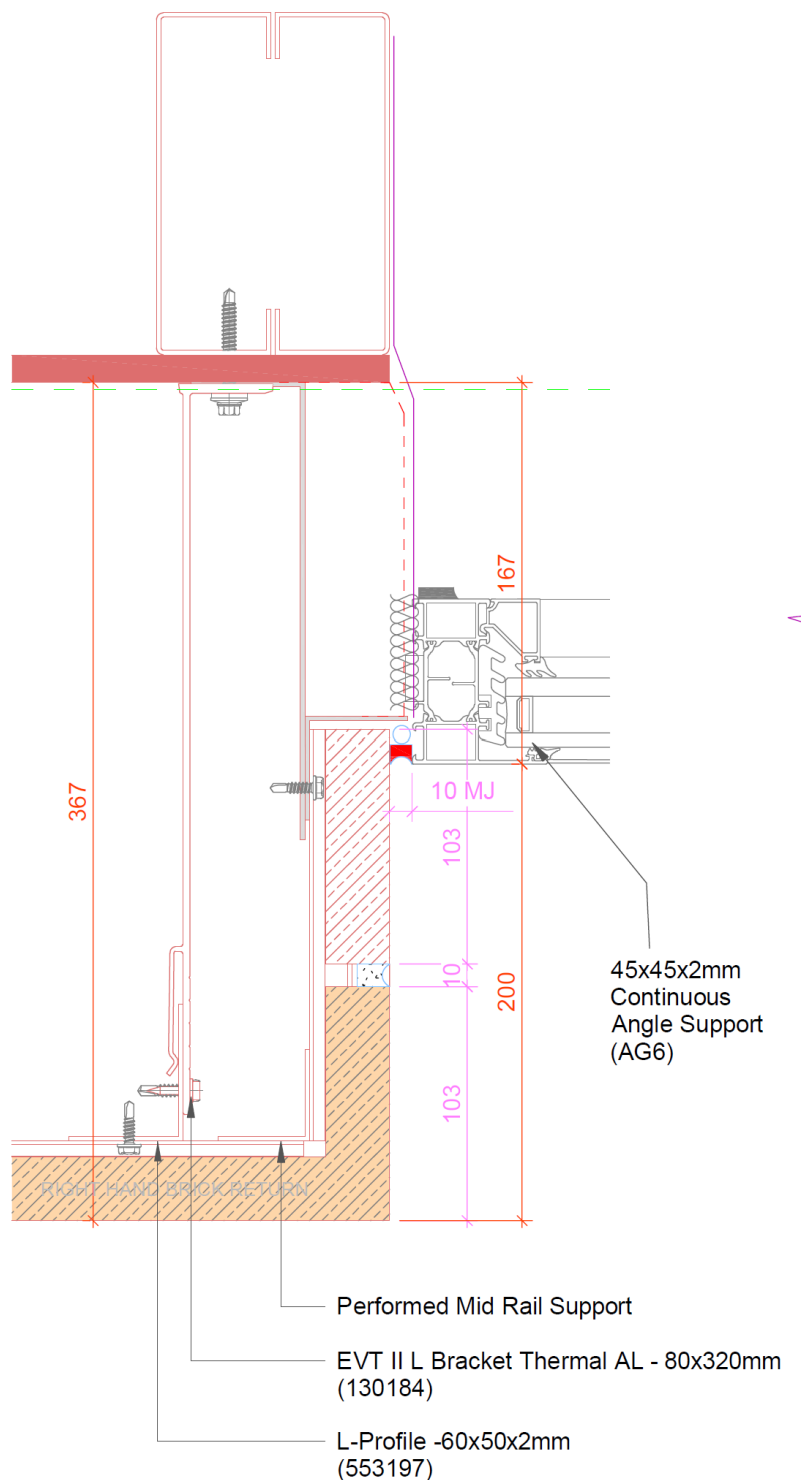


Figure 17. Window detail, includes off site fabricated preformed corner as tested at CWCT Sequence B, UL report number R4791092526 Rev 1

5.1 Loads and movements

The Briklok system has been designed to adequately transfer its own weight and any imposed loads from wind and maintenance activities back to the building substructure. A suitably qualified engineer should calculate the Imposed loads acting on the system according to BS EN 1991-1:2002 and BS EN 1991-1-4:2005+A1. National Annex's should be complied with when present.

Consideration should be given to higher wind pressure coefficients caused by inset stories, parapets and free standing walls. Combinations of imposed loads should be determined according to BS EN 1990:2002+A1:2005. Limits states for the components should be calculated according to BS EN 1999-1-1:2007+A1:2009 Design of aluminium structures. Mid-span deflections of the aluminium profiles should not exceed L/250 and L/150 for cantilevers where L is the span. Movement and deflection of the building should be considered when designing the system. The system provides adequate provision for thermal movement according to CWCT standard for systemised building enveloped.

5.2 Support and Fixings

The Briklok Cladding System has demonstrated that it can be securely fixed with suitably durable fixings to ensure adequate in-service performance. The Briklok cladding system can be installed to SFS, steel, masonry and timber substrates. The designer of the backing wall should ensure that it has been designed according to the relevant national standards including National Annex where applicable. The backing structure should be confirmed as suitable of taking the loads imposed by the system. Suitable fixings are used throughout the system with an European Technical Assessment – where possible. When a fixing has to be used that doesn't have an applicable European Technical Assessment the performance of the fixing should be determined by on site pull out testing. This should be carried out by suitably trained personnel. The majority of fixings and ancillary items are made from A2 and A4 Stainless Steel. Fixings should be installed by suitably trained personnel.

5.3 Durability

The product provides satisfactory durability (subject to routine inspection and maintenance). The system has been designed to avoid the need for disproportionate work when repairing or replacing individual components. RJ Facade Systems Ltd declare that based on the design calculations according to EN 1999.1.1.2007 and the durability rating above they expect the design life of the façade system to be in excess of 35 years when used in normal exposure conditions. The brick slips specified perform to F2 durability as part of EN771-1 assessments to the range.

5.4 Interfaces

The Briklok Cladding System has suitable interfaces and resists the penetration of water and wind and has designed to be weather resistant. A CWCT Section 9 hose test was successfully conducted on a window interface installed in the system. Briklok drawings provide details on how to fit/install and ensure that the window detail doesn't compromise the system erecting or build. The cladding system wall cavity will be fully drained and vented in accordance with NHBC Chapter 6.9 requirements for a minimum 38mm clear cavity width. The recommended width of the air gap, necessary for the existence of convection, is between 40 and 80 mm. This air gap protects the building from overheating during the summer and cooling down during the winter.

5.5 Insulation

Insulation is to be supplied by others; RJ Facade Systems Ltd. can supply further details on the appropriate location of insulation via drawings.

5.6 Damp proofing and vapour control

The Briklok Cladding System, including damp proofing materials and airtight membrane are designed to adequately resist the passage of water into a building and allows water vapour to pass outwards. CWCT Test Report No: R4791092526 Rev 1. Cavity trays can be fitted at the base of the system and above any openings if required.

5.7 Electrical continuity and earth bonding

The Briklok Cladding System operation and maintenance guide specifies electrical continuity and earth bonding is to be managed by separate contactors onsite during installation. The rainscreen cladding system design should comply with BS 7671 'Requirements for Electrical Installations, formerly IEE Wiring Regulations' and BS 6651 'Code of Practice for Protection of Structures against Lightning'.

5.8 Maintenance and Installation

Suitable installation guidance is supplied by RJ Facade Systems Ltd. for the Briklok cladding system. The system design allows for appropriate access arrangements for the purposes of cleaning, inspection, maintenance and repair. Should there be a requirement where a brick slip or brick slips require replacing this can be carried out in an isolated area rather than stripping full elevations to replace.

5.9 Ventilation screens

Any ventilation openings are protected from the entry of birds and animals, RJ Facade Systems have confirmed that a suitable anti-vermin mesh can be supplied ensure compliance when required (gaps/openings over 10mm).

- 5.10 Handling and storage
An onsite assessment of the manufacturer and supply chain confirmed that materials, products and systems are protected and stored in a satisfactory manner to prevent loss, damage, distortion, uneven weathering and any degradation. The safe handling of and storage of material is detailed further in the product installation guidance.
- 5.11 Weather resistance
The Briklok Cladding System has been designed to resist the passage of water to inside the building. A CWCT Sequence B test has been carried out on this system by a UKAS accredited laboratory – see section 7 tests 5 and 6 for further details. All external seals and joins are made from Parex Mortar or equal to/approved to prevent water ingress.
- 5.12 Thermal bridging and condensation
The Briklok Cladding System and the insulation used has been designed/considered so that thermal bridging is considered and managed. Thermostop elements serve as thermal spacers between supporting walls and structure. The use of these elements in positively impacts reduced heat losses.
- 5.13 Drainage and ventilation
The cladding system has air barriers and vapour barriers drawings can be provided by RJ Facade Systems Ltd. The vapour permeability of the enclosing walls and the thermal insulation let the construction moisture evaporate. Weep holes are located at the bottom of cavity 215 x 10mm. The brickslips and rails provide an airtight barrier at the front of the ventilated rainscreen.
- 5.14 Opening doors and lights
Openable windows are installed so that they fit neatly and have minimal gaps to ensure effective weatherproofing of the system is maintained, detailed drawings created by RJ Facade Systems are available on request. This detail has been tested to CWCT requirements.
- 5.15 ETAG
A typical brick slip i.e. Leicester Red has a DoP stating that no dangerous substances are used in their manufacture or material composition. The brickslip have been assessed to EN 771-1. The brickslip manufacturer and supplier have confirmed the following performance: Compressive Strength (N/mm²): 20, Active Soluble Salts: S2, Water Absorption (% weight): 19, Durability / Freeze Thaw: F2, Gross Dry Density (Sound Insulation) (Kg/m³): 1530 Equivalent Thermal Conductivity "K" value 5% Exposed:0.8, Initial Rate of Absorption (Suction Rate) (Kg/m²/min): 2.6. Many types of brick slip can be used with the system and their properties may vary slightly.
- 5.16 Opening doors and lights
Openable windows are installed so that they fit neatly and have minimal gaps to ensure effective weatherproofing of the system is maintained, detailed drawings created by RJ Facade Systems are available on request. This detail has been tested to CWCT requirements.
- 5.17 Behaviour in relation to fire
The components of the Briklok system are non combustible and, therefore, are classified as Class A1 in accordance with national Building Regulations and not subject to any restriction on building height or any other restrictions relating to systems with a lower fire rating. Suitable cavity barriers must be incorporated in the cavity behind the system
- 5.16.1 Briklok aluminium support profiles, EVT II aluminium and stainless steel brackets and support structure, stainless steel fixings are Class A1 'No contribution to fire' provided for in decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products.
- 5.16.2 Ibstock Bricks are class A1 'No contribution to fire'.
- 5.16.3 Sika Parex Historic Mortar is class A1 'No contribution to fire'.
- 5.16.4 EVT II brackets feature polypropylene copolymer insulation pads with a flame-retardant additive, as they are considered to be present in relatively small quantities, considered unlikely to affect the overall fire performance of the cladding.
- The Briklok interlocking rail system provides a continuous aluminium backing surface facing into the rainscreen cavity. This provides a solid and continuous surface allowing vertical cavity barriers to achieve the required compression. The Briklok system has been tested to TDG-019 in conjunction with cavity barrier system FSi Silverliner OSCB1 Horizontal Ventilated Cavity Barriers rated EI120, achieved a combined rating of EI120 unaffected the performance of the barrier.

Fire approval is outside the scope of this Certificate.

Section 6 – Comments on the certified products contribution to The Building Regulations

A review of the key related requirements from The Building Regulations 2010 (England and Wales) was conducted based on the information declared by RJ Facade Systems Ltd. and the data provided for the documentation review. The following comments have been made on whether the certified product can contribute to the Building Regulations requirements.

The Building Regulations 2010 (England and Wales)

Requirement	Comment/s
A.1 Loading	The calculations, statements and reports provided gives confidence that this regulation is contributed towards by the product certified.
B2(1) Internal fire spread (linings) and B4 (1) External fire spread	The two key components of the cladding system comprise of non-combustible aluminium and a non-flammable/non-combustible clay brick slip. This gives confidence that this regulation is contributed towards by the product certified.
C2 (B) Resistance to moisture	The Technical Report – R4791092526 CWCT – Standard for systemised building envelopes – 2005 (details in section 8) gives confidence that this regulation is contributed towards by the product certified when designed as a fully drained and ventilated cladding system.
7. Materials and workmanship	The evidence of method statements, installation guidance and staff training provided gives confidence that this regulation is contributed towards by the product certified.

The Building (Scotland) Regulations 2004 (as amended)

Requirement	Comment/s
1.1 Structure	The calculations, statements and reports provided gives confidence that this regulation is contributed towards by the product certified.
3.10 Precipitation	The Technical Report – R4791092526 CWCT – Standard for systemised building envelopes – 2005 (details in section 8) gives confidence that this regulation is contributed towards by the product certified when designed as a fully drained and ventilated cladding system.
3.15 Condensation	The drainage and ventilation design of the system gives confidence that this regulation is contributed towards by the product certified.
8(1) Fitness and durability of materials and workmanship	The evidence of method statements, installation guidance and staff training provided gives confidence that this regulation is contributed towards by the product certified.

Section 7 – Product installation

General

This product must be installed in accordance with the RJ Facades Systems Ltd. recommendations and the requirements of this certificate. RJ Facade Systems Ltd have specified that product Installers can be trained and approved by them directly. All trained and approved installers will be issued with an appropriate in-house certificates/training evidence.

Product delivery

The certified product's components are delivered to site in suitable packaging transported by long distance haulage companies. Heavy-duty packaging is used for the products and this was demonstrated during the onsite visits of the facilities. Each delivery is labelled with details including order number, location, product name, type, size, quantity and weight.

Site survey

RJ Facades Systems Ltd have specified that prior to installation of Briklok Cladding System; a pre-installation survey of the property has to be carried out by the installer to determine whether the site is suitable for product installation and if any repairs are required to the building wall.

Section 8 - Supporting CWCT test documentation

General

Air and water testing of the Briklok Brick slip Cladding System was carried out in accordance with the CWCT Standard test sequence B. The system tested was deemed to cover the size and configurations to systems that will be provided by RJ Facades.

Test sample size and configuration

The product testing was accordance with UL International (UK) Ltd, guidance document WEL 354. The sample was 5.0 m wide by 8.0 m in height featured a corner detail and was installed on an SFS backing wall.

Testing carried out

CWCT Test Methods for Building Envelopes – Dec 2005; Sections 5, 6, 7, 9, 11, 12 & CWCT TN 76. The testing was conducted on the 18th March 2024 and completed on the 28th March 2024. Test Report No: R4791092526 Rev 1 issued 23rd April 2024.

Test laboratory

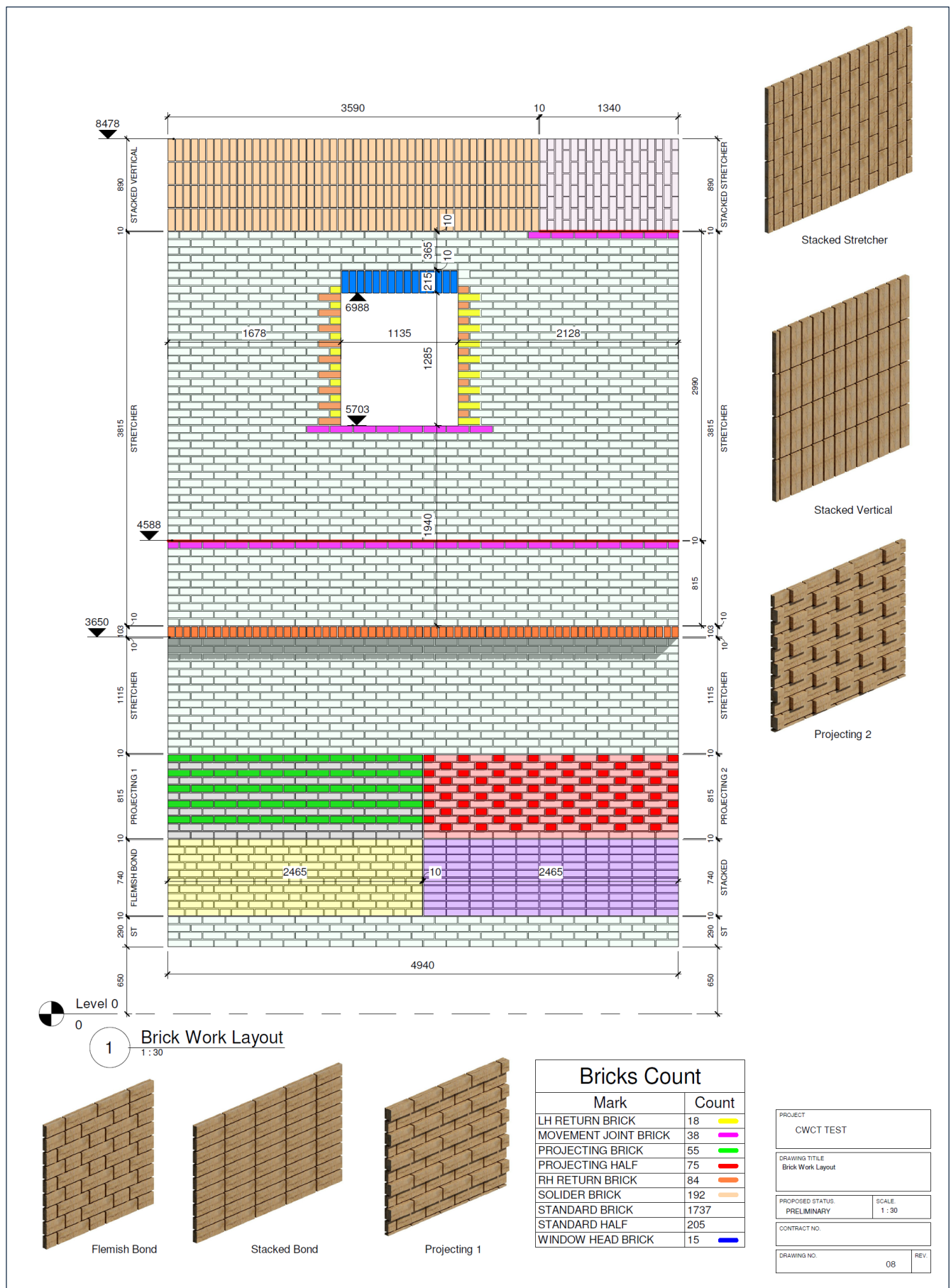
UL International (UK) Ltd, Telford, Shropshire, TF7 4QH, United Kingdom (UKAS 5772)

Test Results (reference report number R4791092526 Rev 1)

Test type	Peak Test Pressure	Result	Classification
Test 1 – Air Leakage - Infiltration	600 Pa	Pass	A4
Test 2 – Air Leakage - Exfiltration	100 Pa	n/a	-
Test 3 – Water Penetration - Static Pressure	600 Pa	Pass	R7
Test 4 – Wind Resistance (Serviceability) - Backing Wall	2400 Pa	Pass	-
Test 5 – Repeat Air Leakage - Infiltration	600 Pa	Pass	A4
Test 6 – Repeat Air Leakage - Exfiltration	100 Pa	n/a	-
Test 7 – Repeat Water Penetration - Static Pressure	600 Pa	Pass	-
Test 8 – Repeat Water Penetration - Dynamic Aero Engine	600 Pa	Pass	-
Test 9 – Water Penetration - Hose	-	Pass	-
Test 10 – Wind Resistance - (Serviceability) - Cavity	2400Pa	Pass	-
Test 11 – Wind Resistance (Safety) - Backing Wall	3600 Pa	Pass	-
Test 12 – Wind Resistance (Safety) - Cavity	3600 Pa	Pass	-
Test 13 – Impact Resistance (Retention of Performance)	-	Class 1	CAT B
Test 14 – Impact Resistance (Safety to persons)	-	Negligible Risk	CAT B

Conclusion

A review of the test report demonstrated that the test sample successfully passed all of the above CWCT test requirements. The test sample was supplied and erected on to the test laboratory's test chamber. The dismantling was conducted on 3rd and 4th April 2024 by representatives of RJ Facades Systems Ltd and was witnessed in full by UL International (UK) Ltd testing personnel. The report states that there was no water evident in the system in parts designed not to be wetted following the system dismantle. For further details, please request a copy of Test Report No: R4791092526 Rev 1.



Section 9 – Certification conditions

This UL Certificate:

1. Covers the product/system that is named and described on the front page only.
2. Should be read in conjunction with the UL Mark – Performance of Curtain Walling and Rainscreen Cladding and Cladding Support Systems for Use in the United Kingdom scheme guidance document.
3. Is granted to the company listed front page only.
4. Subject to availability of the referenced manufacturers system information
5. Is valid within the UK only.
6. Will remain valid for the period listed on the front page provided that the product and the manufacturer comply with the UL Mark requirements.

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