



Briklok

From FGF

briklok
by RJ Facades

Contents

Introduction to FGF

Introduction to Briklok

The Briklok System

The FGF Difference: Your Trusted Partner

- **Over 70 Years of Excellence:** Founded in 1954, FGF has built a reputation for quality, expertise, and strong partnerships across the construction and engineering industries.
- **Comprehensive Solutions:** We provide a full range of external envelope solutions, including:
 - Façade systems
 - Cladding
 - Building boards
 - Insulation
 - Fire protection products
 - Brick slip systems
- **Value-Added Services:** Beyond materials, we offer expert fabrication, re-manufacturing, and CNC machining, all backed by a rigorous 5-stage quality control process.
- **Commitment to the Future:** Dedicated to continuous innovation, investment in cutting-edge equipment, and a focus on sustainability.

Briklok: The Modern Brick Slip System from FGF

- **What it is:** A mechanically fixed brick façade system engineered to replicate traditional brickwork with the speed, precision, and performance of a modern solution.
- **Built for Performance:**
 - **Testing & Technical Support:** NHBC Approved, UL UKAS Accreditation, CWCT Sequence B Testing, and comprehensive FIRE Testing (TGD 0119) ensure reliability and compliance.
 - **Ease & Speed of Install:** Fast, consistent installation significantly reduces on-site build time, thanks to its mechanically fixed slips (not adhesive bonded).
- **Key Advantages Over Other Systems:**
 - **Simple Cavity Barrier Integration:** Easily incorporates fire-stopping cavity barriers.
 - **Superior System Strength:** Features a low-carbon aluminium substructure and ETA-approved fixings for robust, long-term performance.
 - **Accurate Time Savings:** Designed for efficient, predictable project timelines.
 - **Off-site Construction Ready:** Flexible design supports modular and off-site building approaches.
 - **Natural Bricks:** Utilises authentic brick slips (e.g., Ibstock) for the classic brick aesthetic.
- **Ideal For:** High-rise residential, commercial, education, and mixed-use developments seeking a durable, aesthetically pleasing brick finish.

Briklok System

Briklok brickslip system

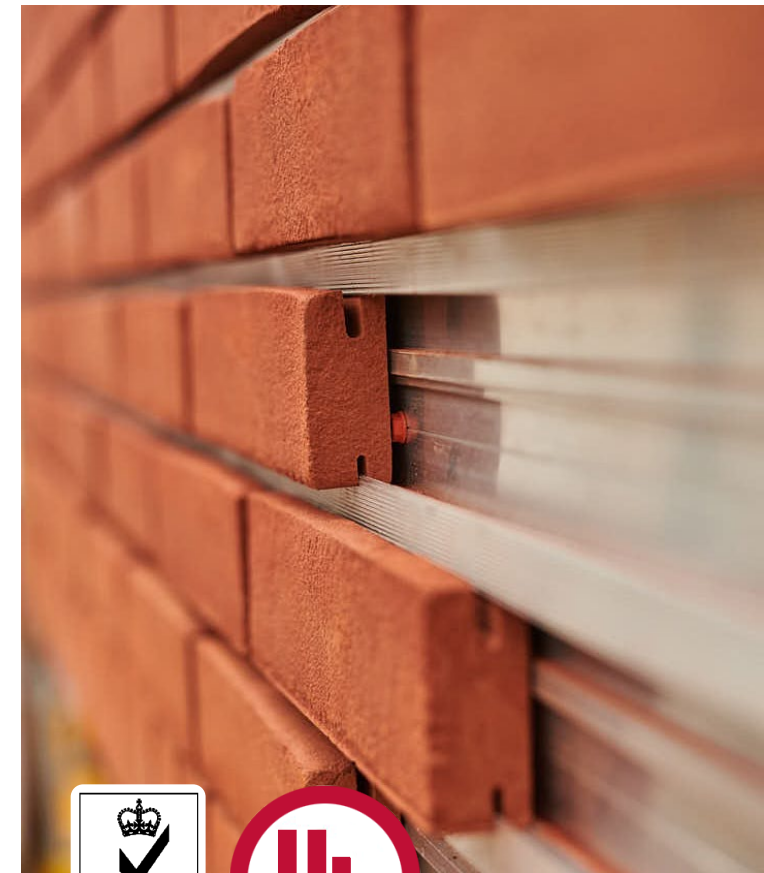
A **closed-back aluminium** brickslip system, made to carry natural brick slips.

Featuring an **interlocking profile** design, which allows for **fast and accurate** on-site installation, or **rigid and simplified** construction off-site.

No requirement for vertical perp joint infill pieces.

Allowance for lateral movement and tolerance on bricks, similar to standard bricklaying techniques

TGD-019 Fire test, **CWCT Sequence B**, A1 Warrington Fire Classification report to **EN 13501-1: 2018**



Unique advantages

Simple cavity barrier installation – removes the complicated notching details difficult to QA in real site conditions

System strength – interlocking profile design creates a wall of aluminium to support brick facade

Accurate time saving on-site installation – gauging tools allow for site tolerances +/-1mm tooling

Off-site construction – production of column details

Natural bricks – cut from a natural brick with no bonded corners

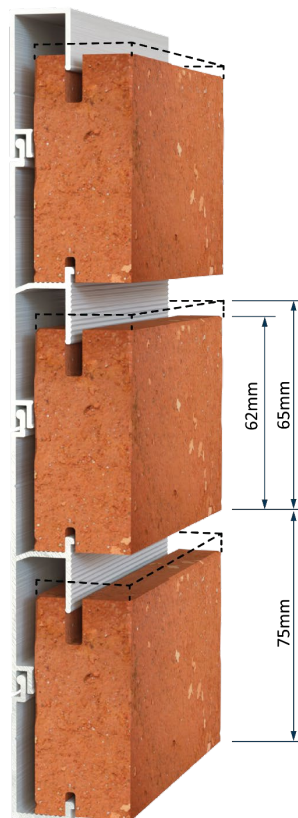
briklok
by RJ Facades



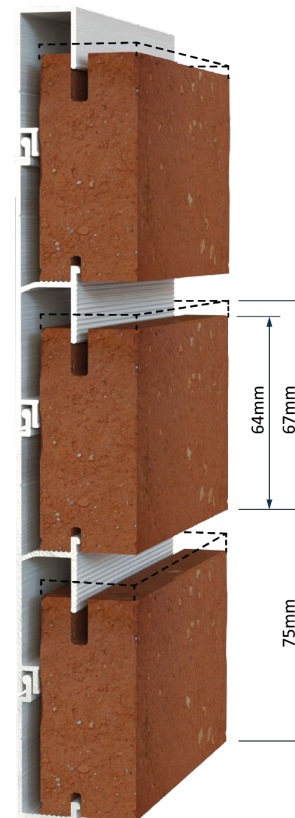


Brick Height Specific Systems

Briklok S



Briklok XL



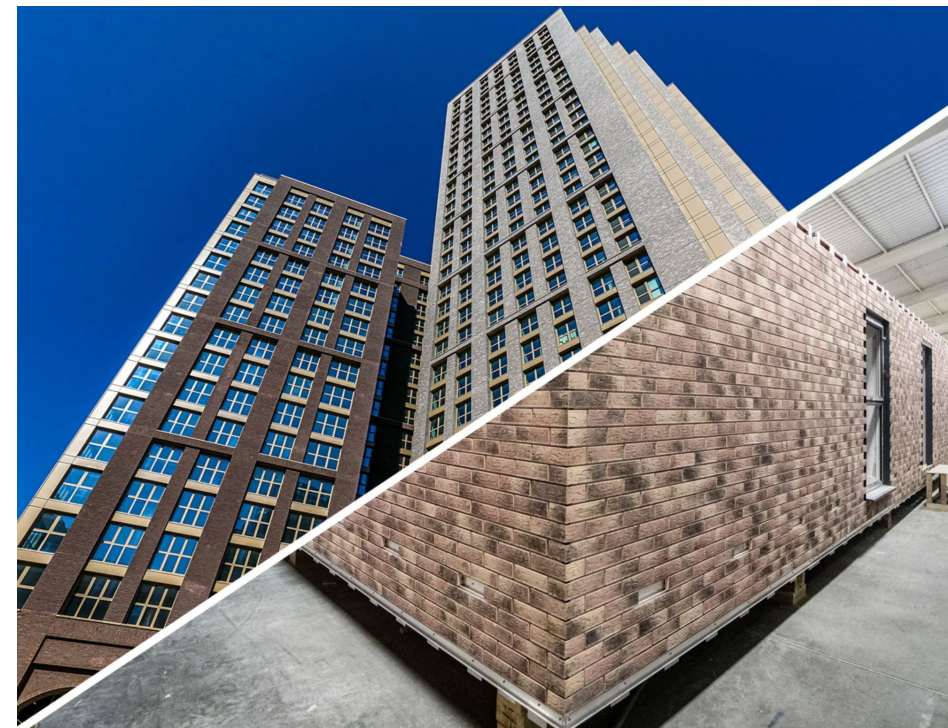
Bricks by Ibstock

Designed for a **natural brick from Ibstock or 3rd party clay bricks**

Partnering with **Ibstock**, market leader of mechanical brick slips, for brick fabrication.

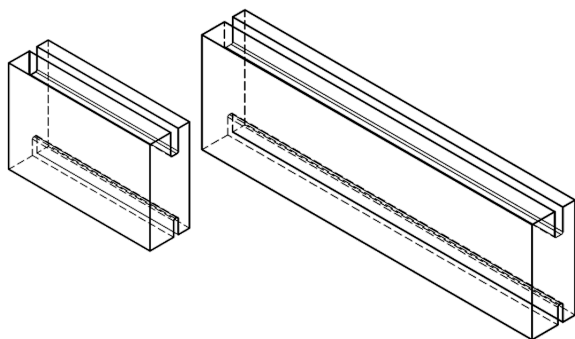
A1 Fire Rated / F2 Frost Rated

Briklok fabrication designs for briklok system

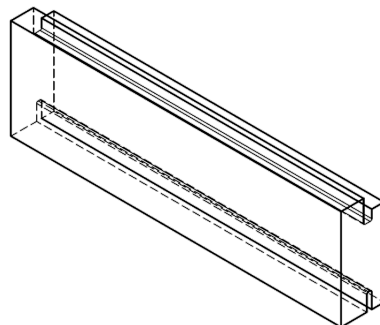


Brick Type Examples

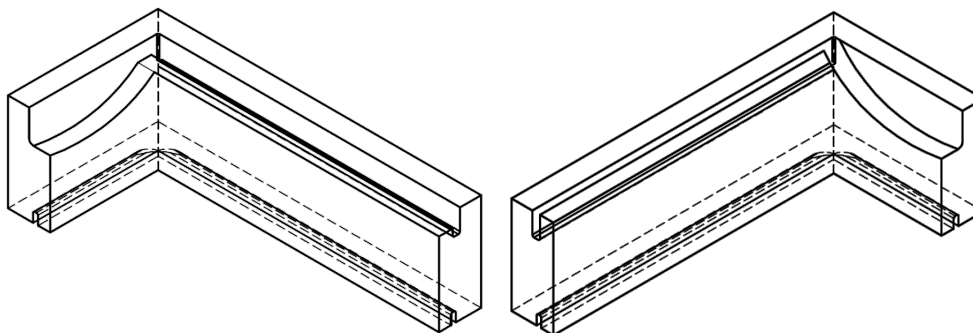
Standard Slips



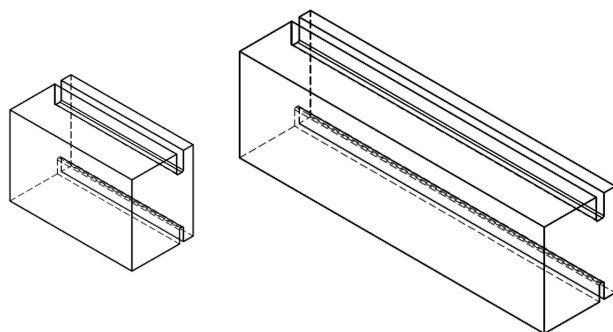
Movement Joint Slips



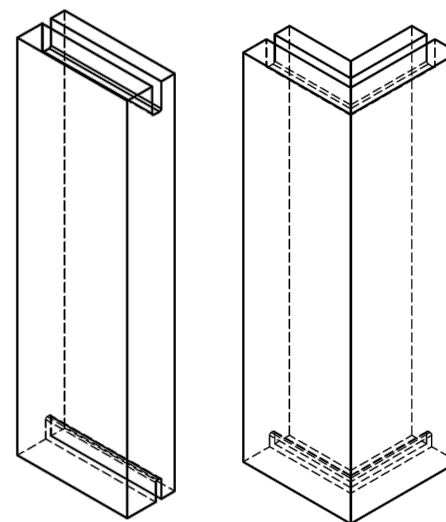
Corner Slips



Projecting Slips

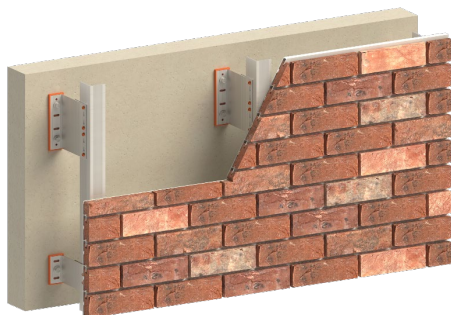


Soldier Slip and corner

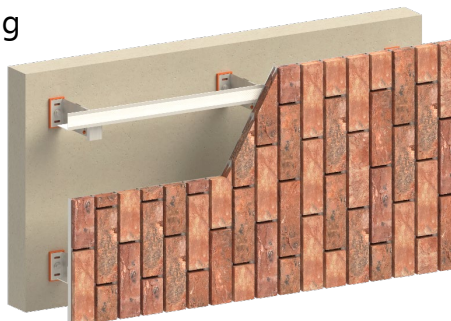


Standard Details

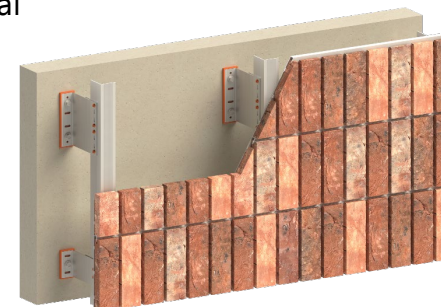
Running
Bond



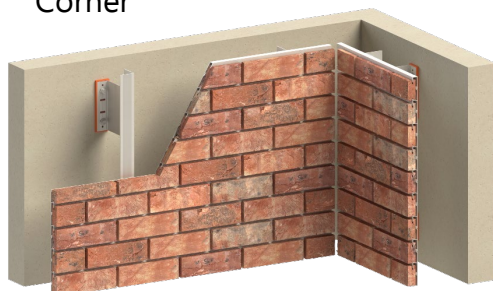
Vertical
Running
Bond



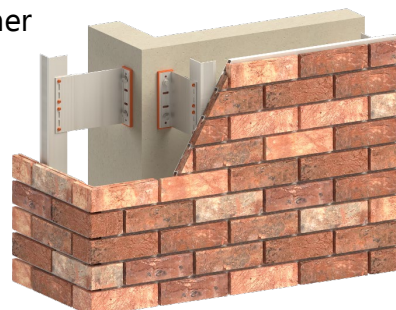
Vertical
Stack
Bond



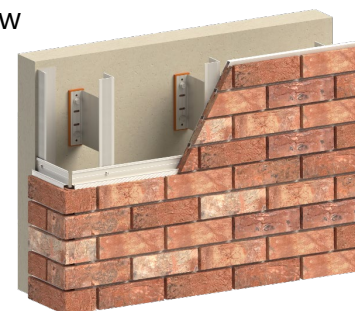
Internal
Corner



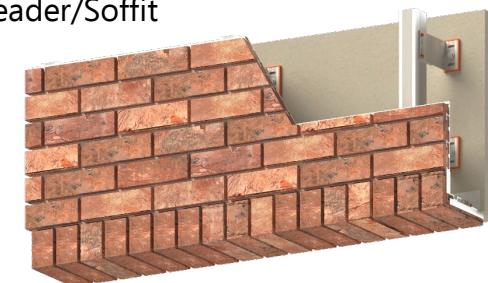
External
Corner



Window
Jamb

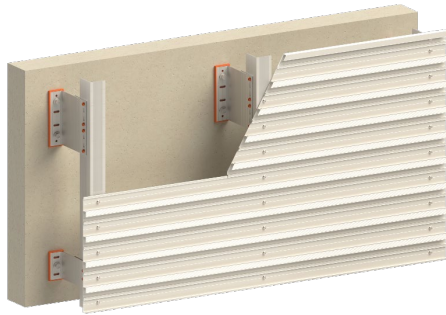


Window
Header/Soffit

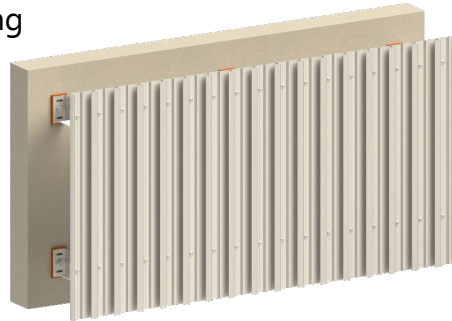


Standard Details

Running
Bond



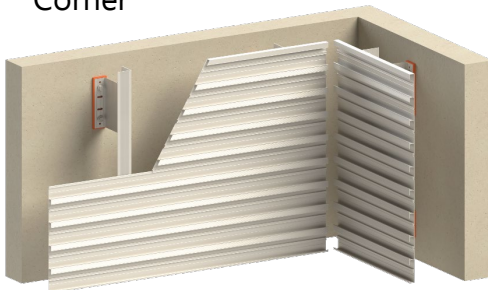
Vertical
Running
Bond



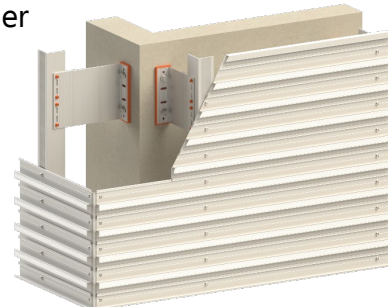
Vertical
Stack
Bond



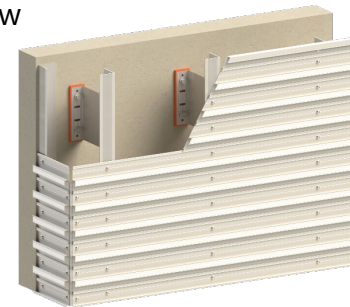
Internal
Corner



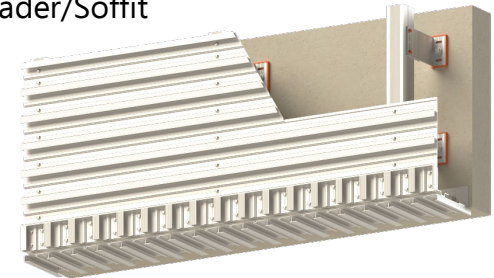
External
Corner



Window
Jamb

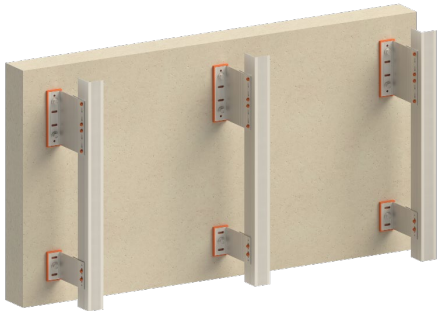


Window
Header/Soffit

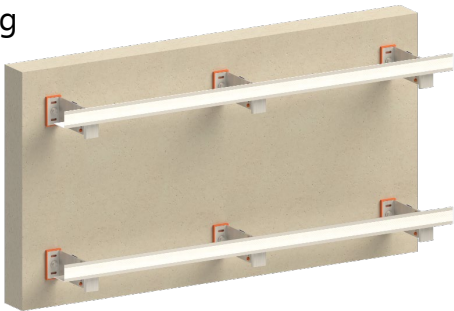


Standard Details

Running Bond



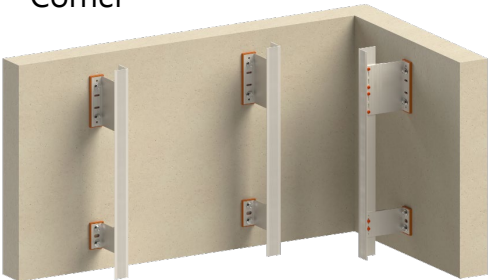
Vertical Running Bond



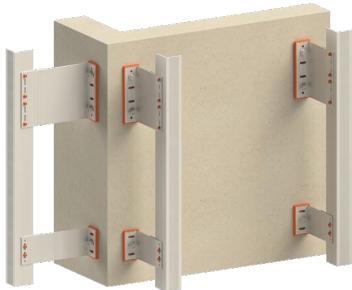
Vertical Stack Bond



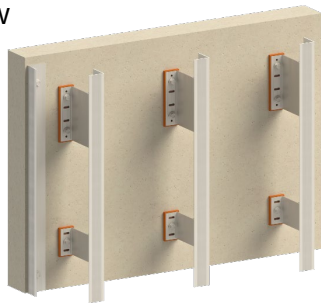
Internal Corner



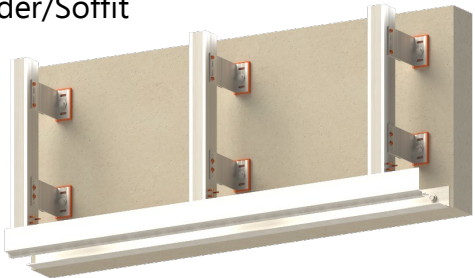
External Corner



Window Jamb



Window Header/Soffit



Offsite construction



Cavity Barrier Intregation

A closed-back
aluminium brickslip
system

Simple cavity barrier
installation – removes
the complicated
notching details
difficult to QA in real
site conditions



NHBC Approved, UL UKAS Accreditation range

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

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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 Whitwell Industrial Estate Bathgate E146 2EP	Certification Body Address: Halefield 2 Telford Shropshire TF1 4JH W4145-1
UL Schema: BSFO - Performance of Cladding and Cladding Supports Systems for use in the United Kingdom Systems V2.0	Certificate Number: 27th April 2027
Date of Certification Commencement: 28th April 2024	Date of Certification Expiry: 27th April 2027
Certificate Compiled by: Mark Swenborough Engineering Leader	Certificate Approved by: Michael Wasi Business Manager
Signed:	Signed:

Section 2 – Product covered by this Certificate

<p>briklok</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">System Name</th> <th style="width: 50%;">System Type</th> </tr> <tr> <td>Briklok Brick Slip Rainscreen Cladding System</td> <td>Mechanical Brick slip Cladding System</td> </tr> </table> <p>This Certification Covers</p> <ul style="list-style-type: none"> 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. 	System Name	System Type	Briklok Brick Slip Rainscreen Cladding System	Mechanical Brick slip Cladding System
System Name	System Type				
Briklok Brick Slip Rainscreen Cladding System	Mechanical Brick slip Cladding System				

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Certificate Assessment Criteria

The certification evaluates the performance of the facade / 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 (intention 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 a 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-R : 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 solder course span profile for vertical running bond designs.

Figure 1. Briklok support profiles

3.2 The top keel should have a minimum of 20mm 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 30mm.

The Briklok system is designed to work with natural red bricks. During the manufacturing process a 'veal' brick will experience varying levels of shrinkage dependent on the type of clay. In general terms the typical UK brick, Istocok 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 'engineering' brick. The only variation is the upper keel is 20mm shorter on the JS version to account for the height of the bricks, Figure 2.

The specification of the support system will be made as 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.

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3.6 Typical Briklok and Istocok brick slip external facade detailing

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

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CWCT Sequence B Testing

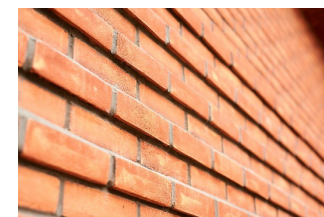
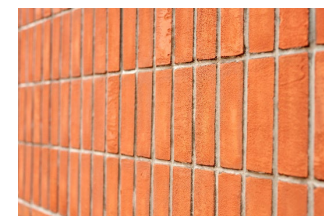
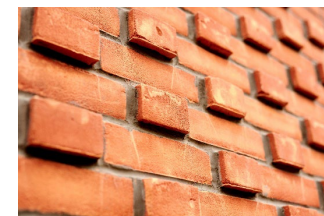
NHBC approved CWCT Sequence B
Test

Test to specification:

Replicates full 2 storey building.

Test includes SFS structure for water
and pressure test

Impact pass for all standard
applications



CWCT Sequence B Testing



		Test Report No: TEL 549 REV 3 Project No: R4791092526 Rev 3 Date: October 22, 2024	Page 4 of 55
2.4 Summary of Results			
The following summarises the results of testing carried out, in accordance with the relevant testing and classification standards.			
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	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	N/A
Test 7 - Repeat Water Penetration (Static Pressure)	600 Pa	Pass	R7
Test 8 - Water Penetration - Dynamic Aero Engine	600 Pa	Pass	-
Test 9 - Water Penetration - Hose	-	Pass	-
Test 10 - Wind Resistance - Serviceability - Cavity	2400 Pa	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	Cat B	Class 1	-
Test 14 - Impact Resistance - Safety to Persons	Cat B	Negligible Risk	-
Dismantle, InsQect & Report	Pass		

More comprehensive details are reported in Section 6.

These results are valid only for the conditions under which the test was conducted.

All measurement devices, instruments and other relevant equipment were calibrated and traceable to National Standards.

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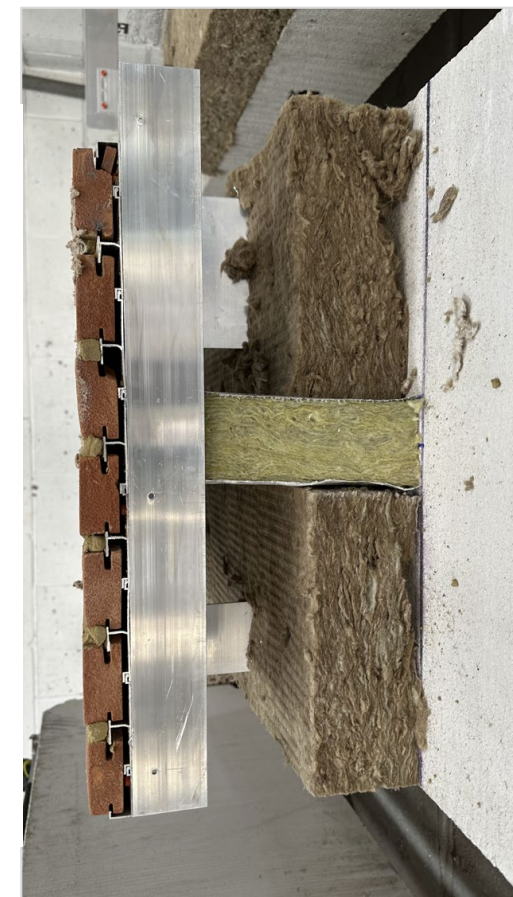
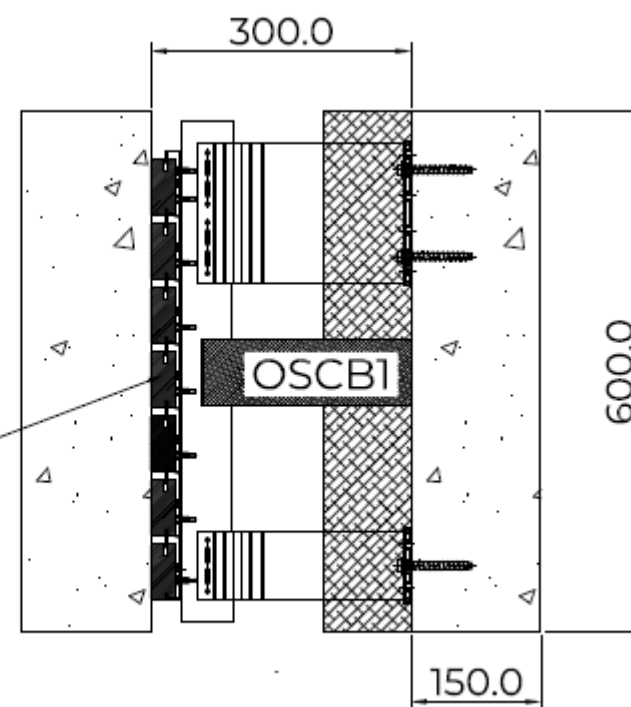
Test Type	Peak	Result	Classification
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Test 7 - Repeat Water Penetration (Static Pressure)	600 Pa	Pass	R7
Test 8 - Water Penetration - Dynamic Aero Engine	600 Pa	Pass	-
Test 9 - Water Penetration - Hose	-	Pass	-
Test 10 - Wind Resistance - Serviceability - Cavity	2400 Pa	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	Cat B	Class 1	-
Test 14 - Impact Resistance - Safety to Persons	Cat B	Negligible Risk	-
Dismantle, InsQect & Report	Pass		

Fire Testing – TGD 019

Briklok system has been tested
to TGD-019 in conjunction with
cavity barrier system FSi
Silverliner OSCB1 Horizontal
Ventilated Cavity Barriers rated
E90 I30

Cavity barrier tested:
Integrity 90 minutes
Insulation 30 minutes

Briklok

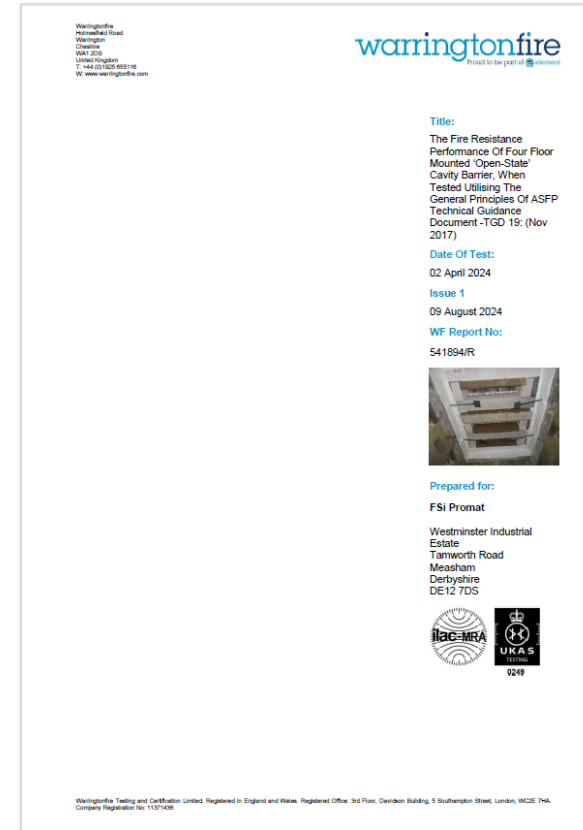


Fire Testing – TGD 019

Test was concluded at the results of:

Integrity 130 minutes
Insulation 60 minutes

Performance of cavity barrier was unaffected by the integration of the briklok system.



WF Test Report No. 541894/R

Issue 1

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Performance Criteria and Test Results

Integrity	It is required that the specimen retains its separating function, without: <ul style="list-style-type: none"> causing ignition of a cotton pad when applied sustained flaming on the unexposed surface <i>Except that any failure before 5 minutes shall be disregarded unless any area of any surfaces exhibits sustained flaming above the seal within that period.</i>			
Insulation	Transmission of heat through the test construction shall not raise any one of the thermocouple temperatures of the unexposed surface of the test specimen more than 180 K above its initial temperature. However, any failure before 5 minutes shall be disregarded. <i>Note: the 'suspended' thermocouple may exceed 180 K rise in advance of the effective closure of the 'open-state' cavity barrier test specimen. This shall also be disregarded.</i>			
Effective Closure	Closure is deemed to have occurred when there is no visible gap and the 'suspended' thermocouple temperature is less than 180 K rise above initial ambient temperature.			
Test Results	Specimen A	Specimen B	Specimen C	Specimen D
Integrity	120 Minutes	132 Minutes*	132 Minutes*	110 Minutes
Cotton Pad	120 Minutes	132 Minutes*	132 Minutes*	110 Minutes
Sustained Flaming	120 Minutes*	132 Minutes*	132 Minutes*	110 Minutes*
Insulation (Surface T/C's)	55 Minutes	64 Minutes	132 Minutes*	56 Minutes
Insulation (Suspended T/C's)	114 Minutes	132 Minutes*	132 Minutes*	110 Minutes#
Closure time	2 Minute 30 Seconds	2 Minute 30 Seconds	4 Minute 30 Seconds	4 Minute 30 Seconds
Due to the nature of ventilated/open state cavity barrier seals, an initial spike in temperature is recorded by the thermocouples positioned in the air gap adjacent to the seal as it is open to the furnace. The temperature is rapidly reduced once the seals react and fill the whole cavity. The 'air gap insulation' figure quoted in the results disregards this initial spike in temperature provided the temperature returns to below 180°C rise within the first five minutes of the test.				
*Test was discontinued after a period of 132 minutes # Specimen Blanked Off				

Date of Test

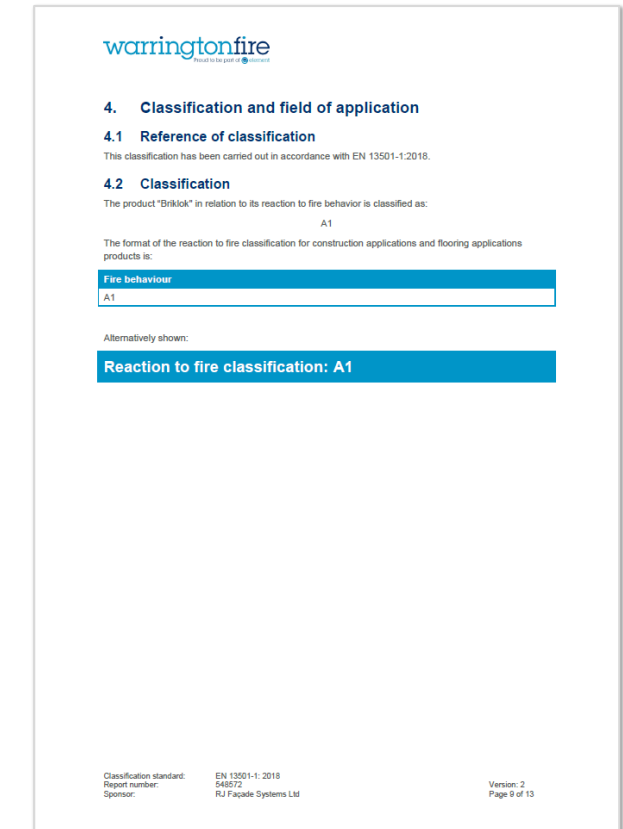
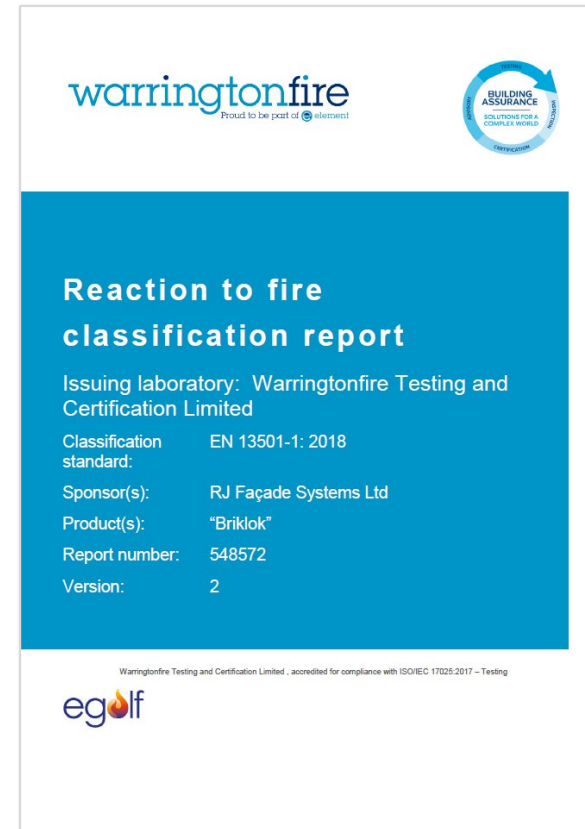
02 April 2024

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Warrington Fire Approval

A1 Warrington Fire Classification report to EN 13501-1: 2018

Approval includes:
EVT II aluminium and
stainless brackets, Briklok
profiles, Ibstock bricks, Sika
Parex mortar, stainless
system fixings





briklok
by RJ Facades

Supplied by

FGF

A horizontal graphic consisting of five colored rectangular segments: yellow, grey, red, green, and blue.