



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

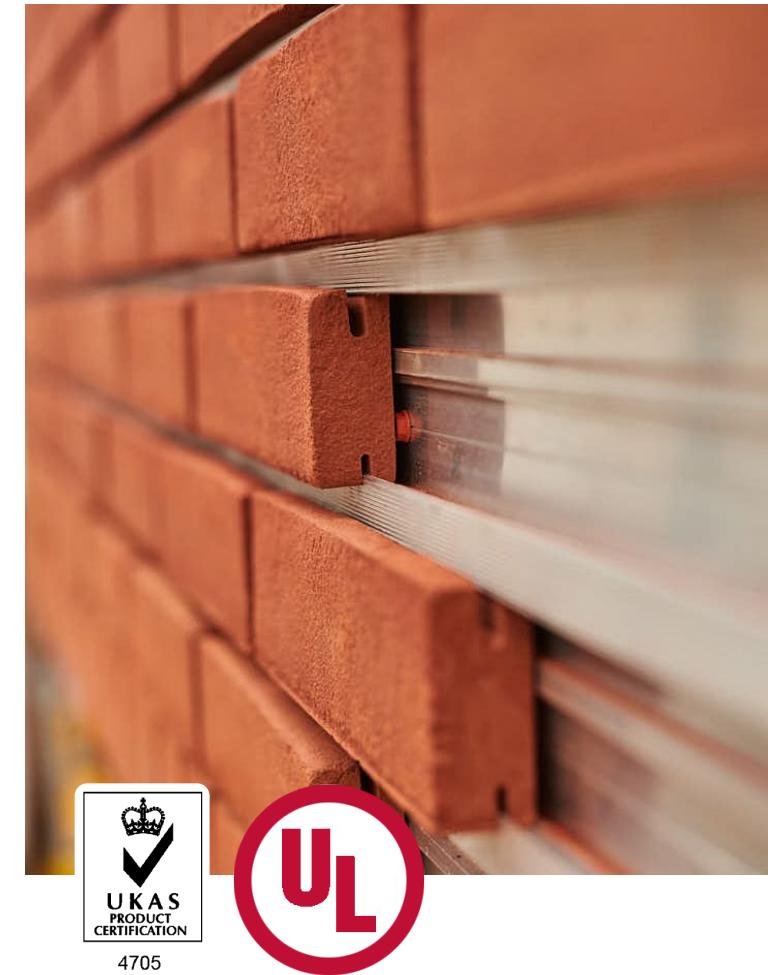
A **closed-back aluminium** brickslip system, made to carry natural brick slips.

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

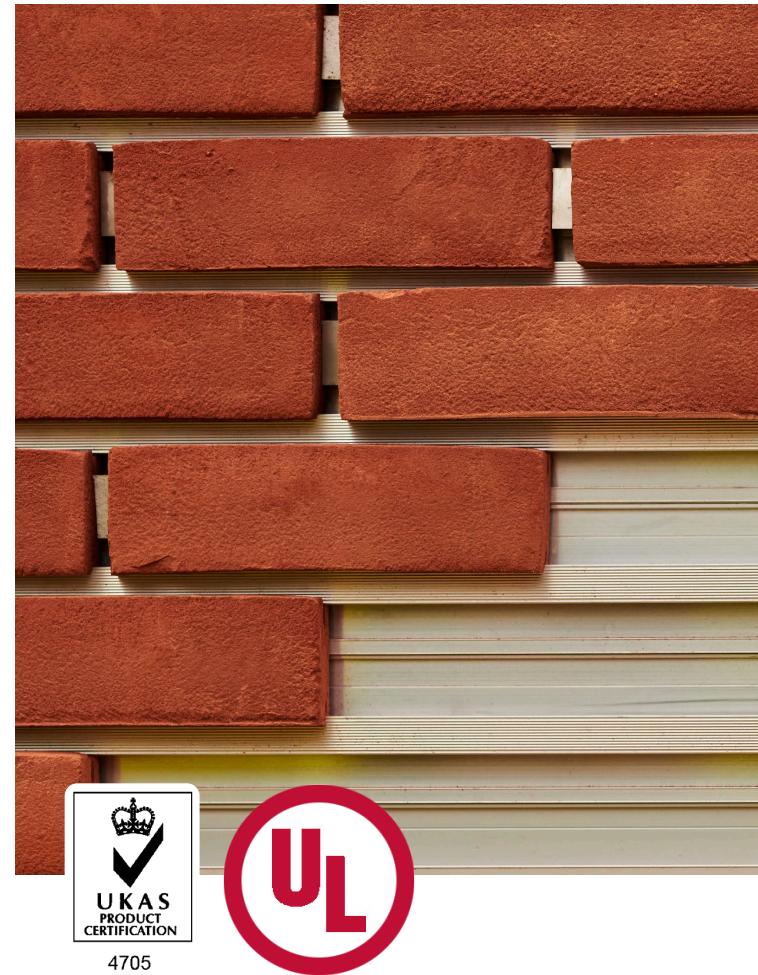
Simple cavity barrier installation – removes the complicated notching details difficult to QA in real site conditions

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

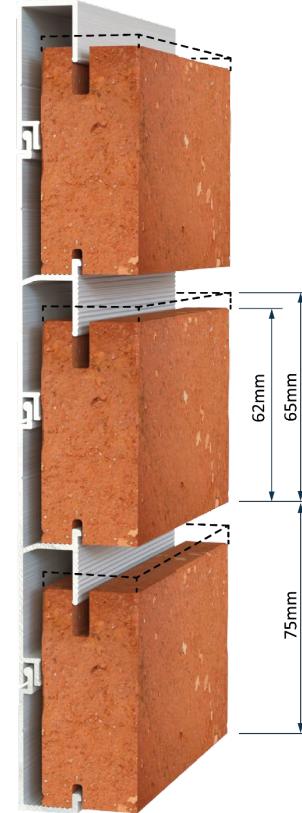
Natural bricks – cut from a natural brick with no bonded corners



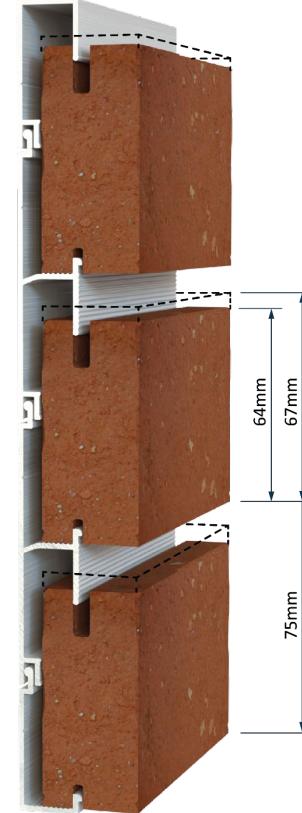


Brick Height Specific Systems

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.

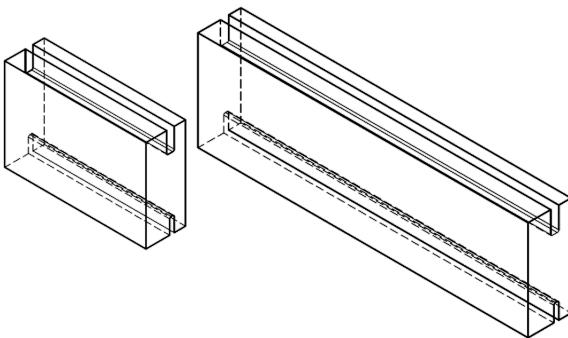
A1 Fire Rated / F2 Frost Rated

Briklok fabrication designs for briklok system

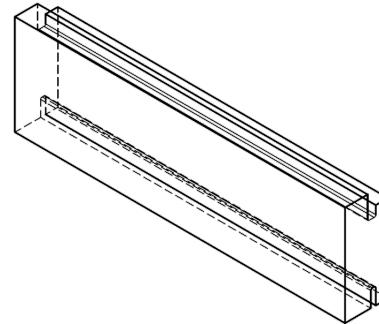


Brick Type Examples

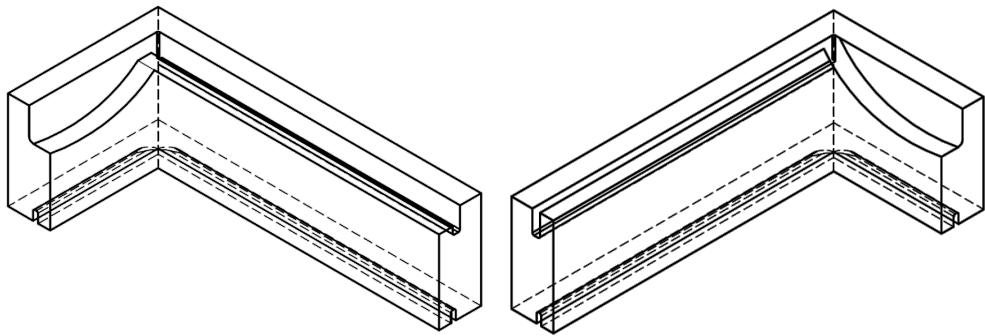
Standard Slips



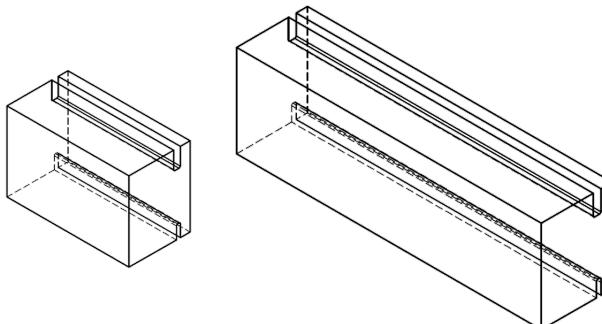
Movement Joint Slips



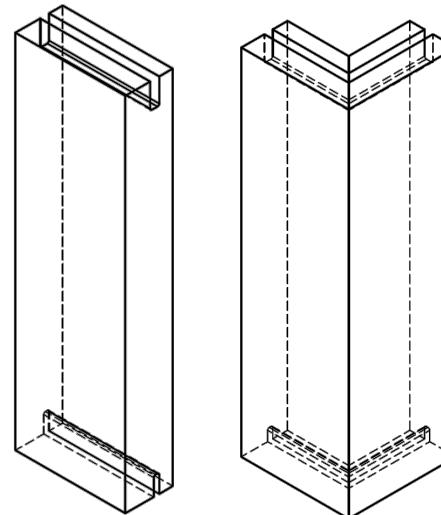
Corner Slips



Projecting Slips

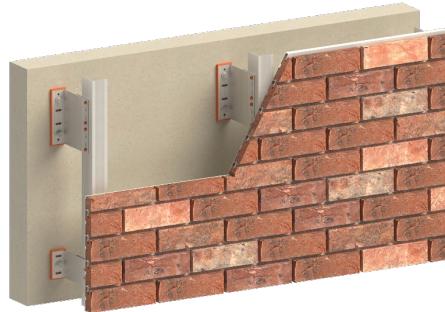


Soldier Slip and corner

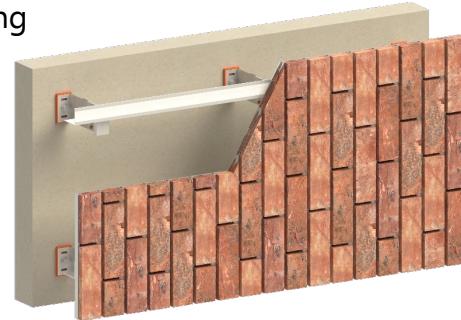


Standard Details

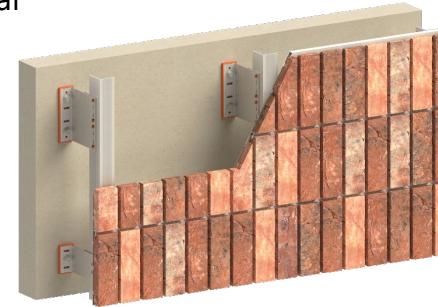
Running Bond



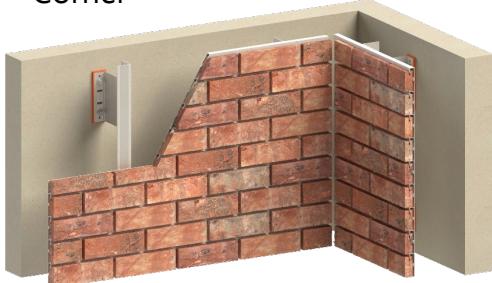
Vertical
Running
Bond



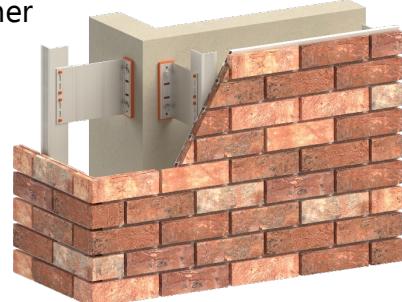
Vertical
Stack
Bond



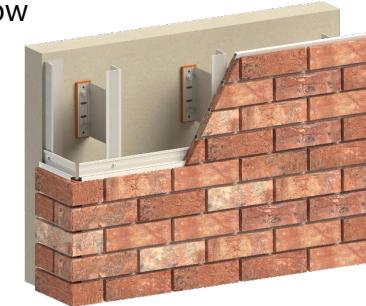
Internal
Corner



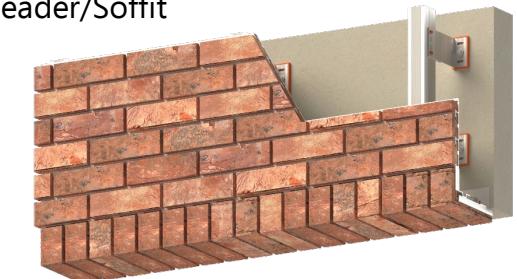
External
Corner



Window
Jamb

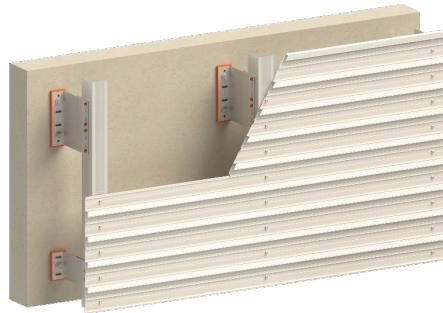


Window
Header/Soffit

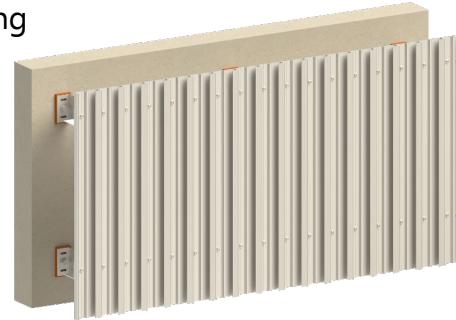


Standard Details

Running Bond



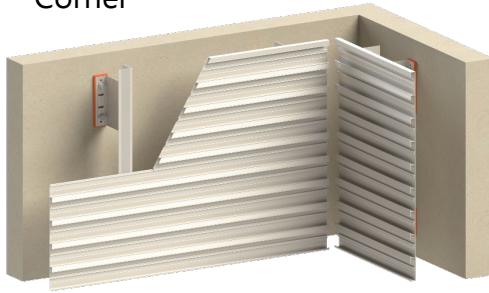
Vertical
Running
Bond



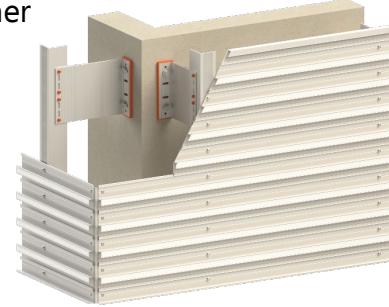
Vertical
Stack
Bond



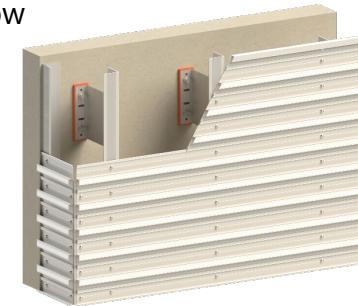
Internal
Corner



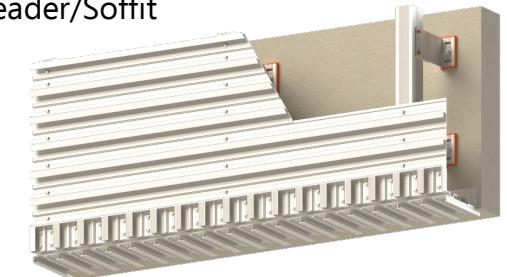
External
Corner



Window
Jamb



Window
Header/Soffit



Standard Details

Running Bond



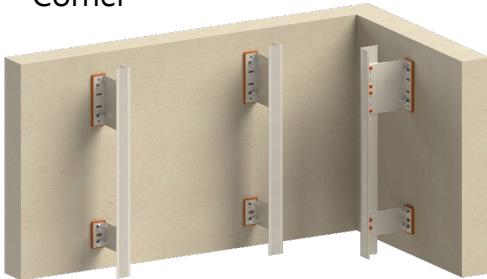
Vertical
Running
Bond



Vertical
Stack
Bond



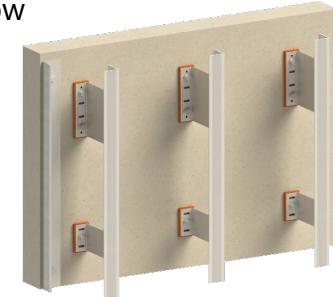
Internal
Corner



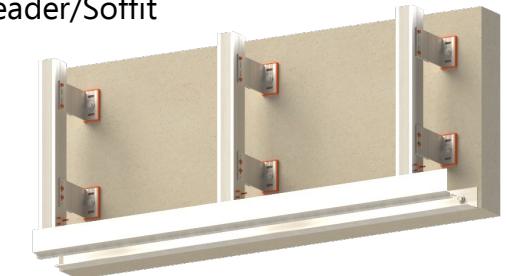
External
Corner



Window
Jamb



Window
Header/Soffit



Offsite construction



Cavity Barrier Integration

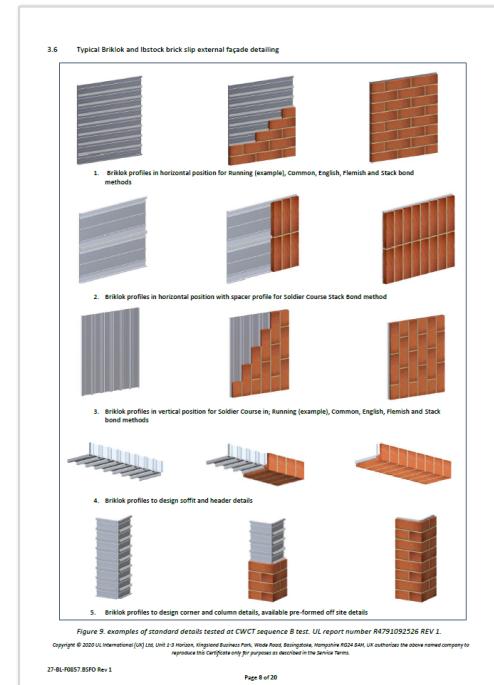
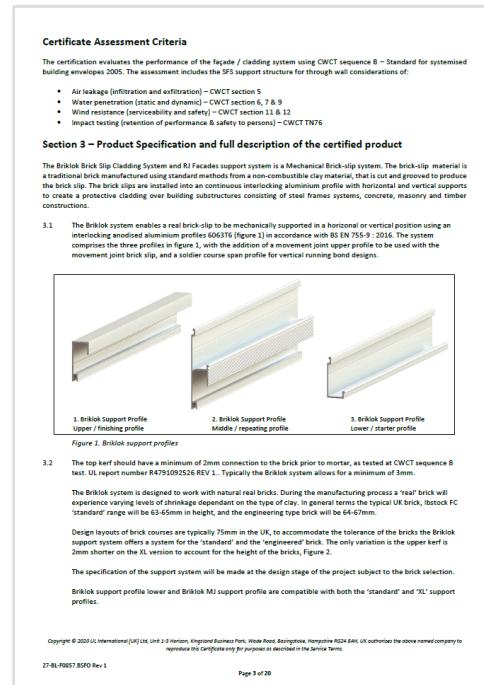
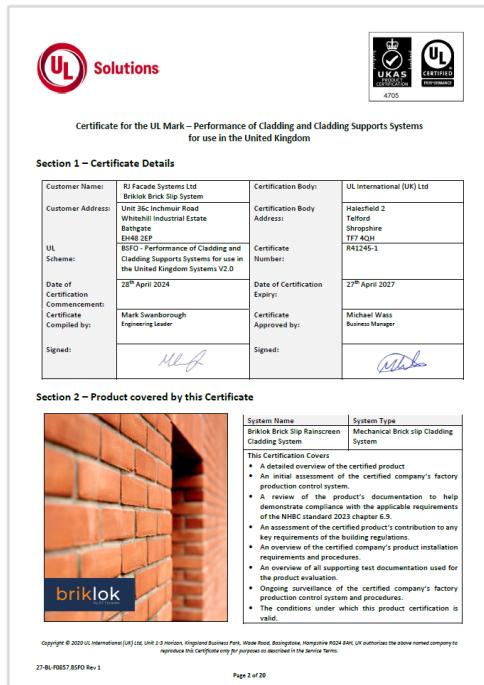
A closed-back
aluminium brickslip
system

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



NHBC Approved, UL UKAS Accreditation range

briklok
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CWCT Sequence B Testing

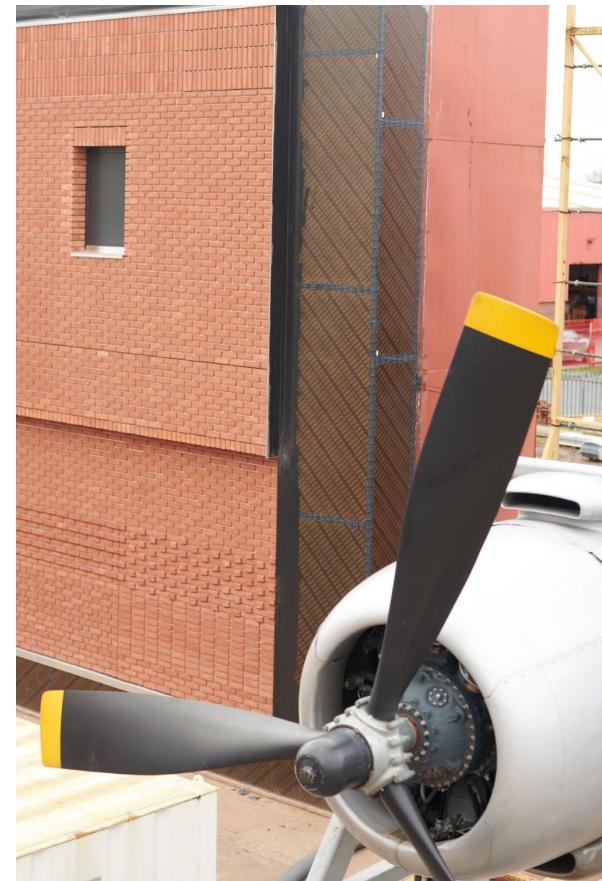
NHBC approved CWCT Sequence B Test

Test to specification:

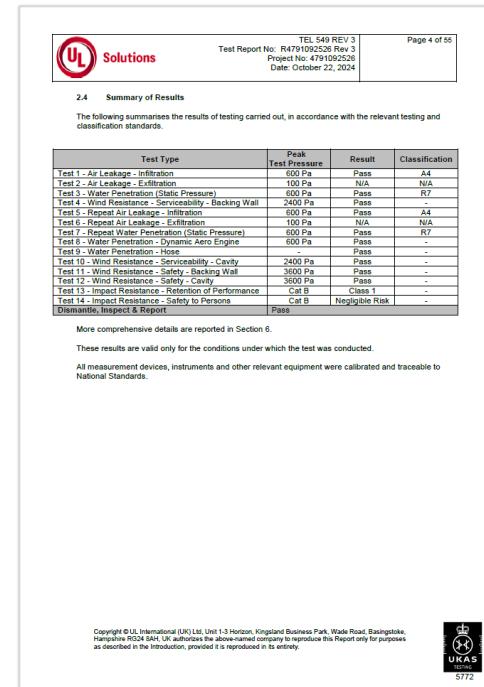
Replicates full 2 storey building.

Test includes SFS structure for water and pressure test

Impact pass for all standard applications



CWCT Sequence B Testing



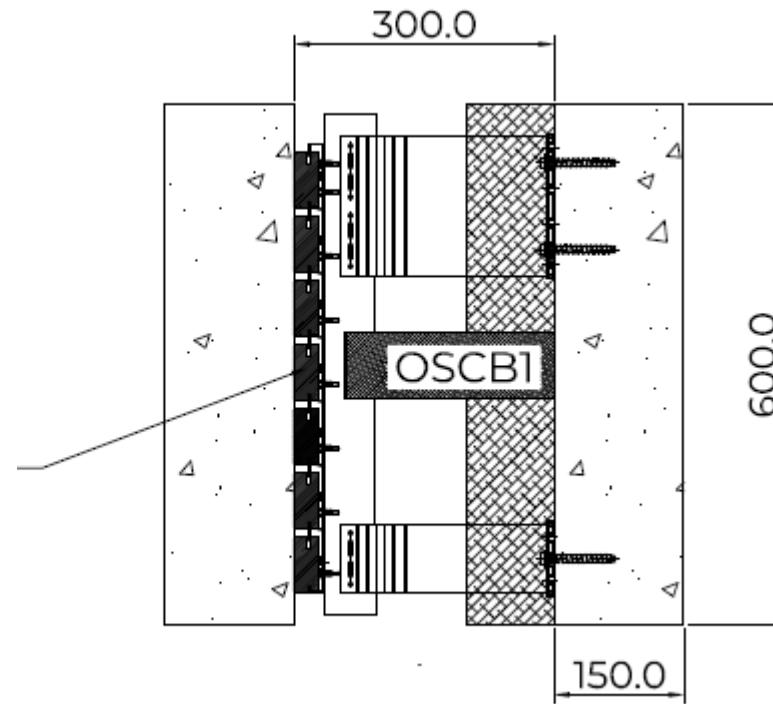
Test Type	Peak	Result	Classification
Test 1 - Air Leakage - Infiltration	600 Pa	Pass	A4
Test 2 - Air Leakage - Exfiltration	100 Pa	N/A	N/A
Test 3 - Water Penetration (Static Pressure)	600 Pa	Pass	R7
Test 4 - Wind Resistance - Serviceability - Backing Wall	2400 Pa	Pass	-
Test 5 - Repeat Air Leakage - 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, Inspect & 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

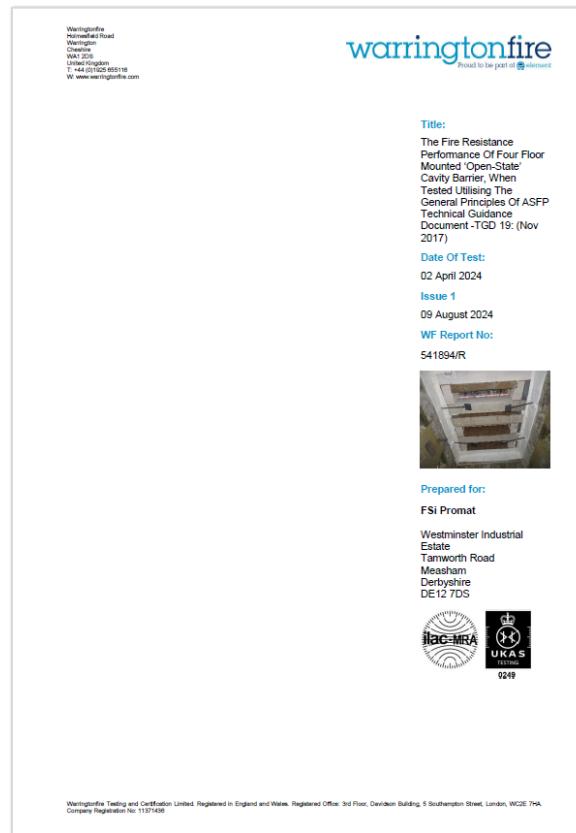


Fire Testing – TGD 019

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.

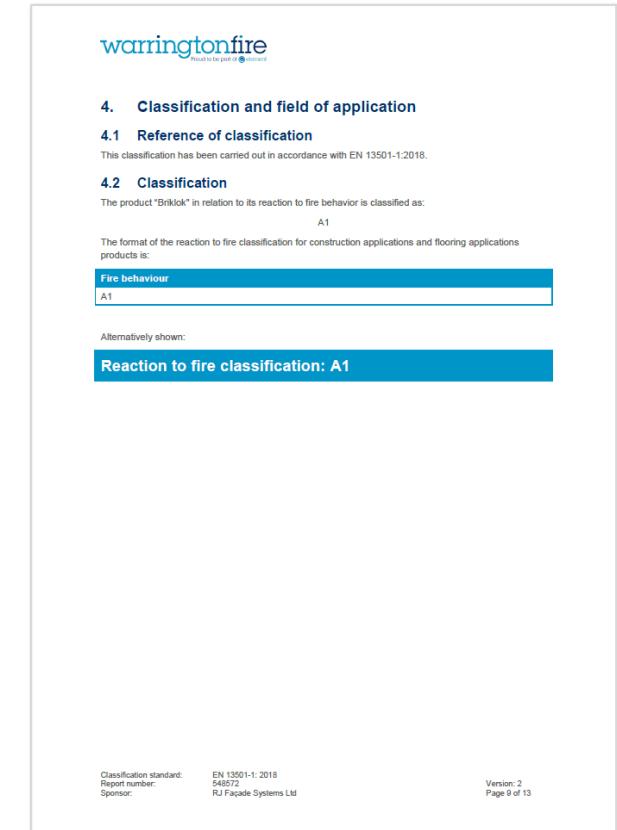
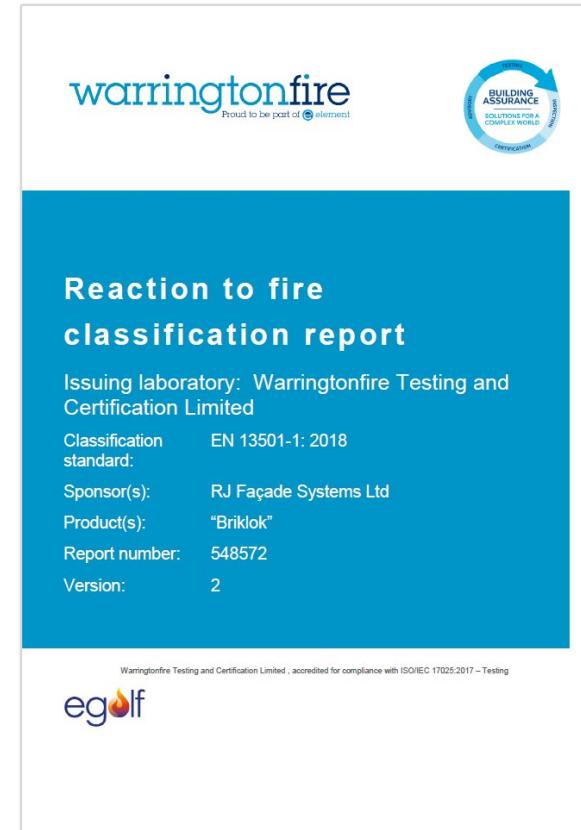


Performance Criteria and Test Results				
Integrity	It is required that the specimen retains its separating function, without:			
<ul style="list-style-type: none"> causing ignition of a cotton pad when applied sustained flaming on the unexposed surface 				Except that any failure before 5 minutes shall be disregarded unless any area of any surfaces exhibits sustained flaming above the seal within that period.
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.			
<p>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.</p>				
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
<p>Due to the nature of ventilated open static cavity barrier seals, an initial spike in temperature is recorded by the thermocouples positioned in the air gap adjacent to the seal as it comes into the furnace. The temperature is rapidly reduced once the seals react and fill the whole cavity. The 'air gap insulation' figure quoted in this results disregards this initial spike in temperature provided the temperature returns to below 180°C rise within the first five minutes of the test.</p>				
<p>*Test was discontinued after a period of 132 minutes # Specimen Blanked Off</p>				
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
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