

Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and
Certification Limited

Classification standard: EN 13501-1: 2018

Sponsor(s): RJ Façade Systems Ltd

Product(s): “Briklok”


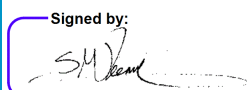
Report number: 548572

Version: 2

Warringtonfire Testing and Certification Limited , accredited for compliance with ISO/IEC 17025:2017 – Testing

Quality management

Version	Date	Summary of amendments including reasons	
1	30 January 2025	Description	Initial issue
		Prepared by	Authorised by
		Name	Leslie Berry
		Signature	Leslie Berry 30 January 2025
			Stacey Deeming 30 January 2025
			*Signed for and on behalf of Warringtonfire Testing and Certification Limited

Version	Date	Summary of amendments including reasons	
2	14 May 2025	Description	This document replaces Issue 1 dated 30 January 2025. It has been revised due to additional information being added to the description table at the request of the sponsor.
		Prepared by	Authorised by
		Name	Leslie Berry
		Signature	Signed by:  4F525C6BB67A481...
			Signed by:  7C2F5D630B7D4C0...
			*Signed for and on behalf of Warringtonfire Testing and Certification Limited

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1. Introduction

This classification report defines the classification assigned to “Briklok”, in line with the procedures given in EN 13501-1: 2018.

Warringtonfire Testing and Certification Limited (Warringtonfire) issued the classification report at the request of the sponsor listed in Table 1.

Table 1 Sponsor details

Entity	Address
Sponsor	
RJ Façade Systems Ltd	Unit 36C Inchmuir Road, Whitehill Industrial Estate, Bathgate, EH48 2EP, United Kingdom

2. Details of classified product

2.1 General

The product(s), “Briklok”, are defined as being suitable for construction applications excluding flooring and linear thermal pipe insulation.

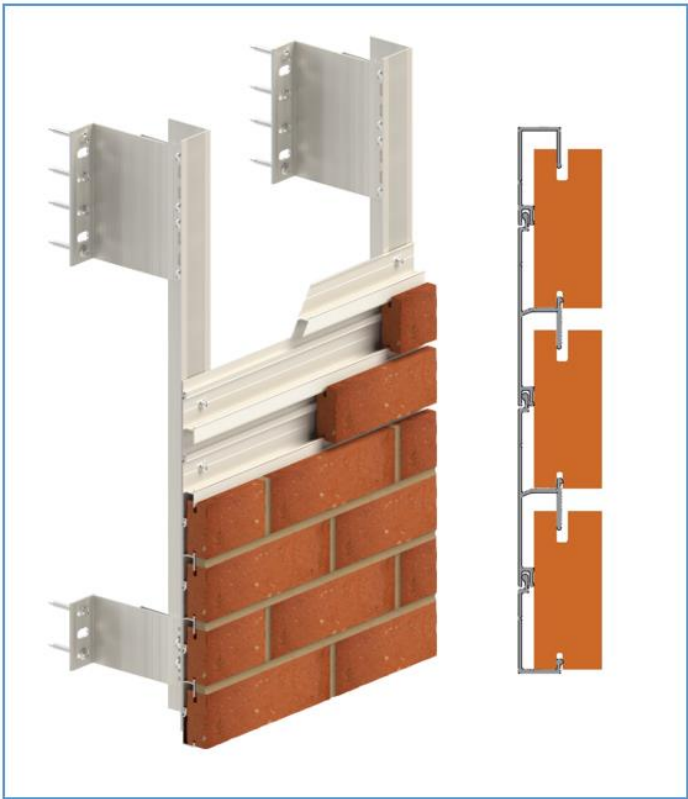
2.2 Product description

The product(s), “Briklok”, are described in Table 2 and in the test reports listed in Section 3.1.

Table 2 Product description

Item	Detail
General description	“Briklok” mechanical brickslip cladding system
Product reference of system	“Briklok”
Name and address of manufacturer of system	RJ Façade Systems Ltd, 36C Inchmuir Road, Bathgate, EH48 2EP
Overall thickness of system	34.5mm
Weight per unit area of system	58.7kg/m ²

Continued on next page

Item		Detail
Diagram		
Brick	Generic type	Clay brickslip
	Product reference	"Leicester Red Brick Slip (A0802A)"
	Name of manufacturer	lbstock
	Colour reference	"Leicester Red"
	Thickness	28mm
	Density	1530 kg/m ³
	Weight per unit area	41.8 kg/m ²
	Flame retardant details	See Note 1 below
	Brief description of manufacturing process	Oven fired clay bricks

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Item		Detail
Mortar	Generic type	Mortar
	Product reference	"Parex Historic Mortar KL"
	Name of manufacturer	Sika
	Composition details	3.75 litres of water per 25 kg
	Colour	Grey
	Thickness	28 mm
	Density	1955.42 kg/m ³
	Weight per unit area	9.1 kg/m ²
	Flame retardant details	See Note 1 below
	Brief description of manufacturing process	Hydrate lime, sand, ground granulated blast-furnace-slag (GGBS) mortar
Aluminium	Generic type	Anodized / Mill finish aluminium
	Product reference	"Aluminium Profiles 6063T6"
	Product components	"Briklok Support Profile" "Vertical profiles" "EVT II L Bracket" "EVT II U Bracket" "EVTI II horizontal adaptor"
	Name of manufacturer	RJ Façade Systems Ltd
	Colour reference	"Silver"
	Thickness	1.4 to 2.0 mm
	Weight per unit area	7.8 kg/m ²
	Flame retardant details	Component is inherently flame retardant
Stainless steel brackets	Generic type	Stainless steel
	Product reference	"Stainless Steel 1.4301 and 1.4401"
	Product components	"EVT II L Bracket" "EVT II U Bracket"
	Name of manufacturer	RJ Façade Systems Ltd
	Colour reference	"Silver"
	Thickness	3.0 – 4.0mm
	Density	8000kg/m ³
	Weight per unit area	0.12kg/m ²
	Flame retardant details	Component is inherently flame retardant

Continued on next page

Item		Detail
Stainless steel fixings	Generic type	Stainless steel
	Product reference	"Stainless Steel Anchors 1.4301 and 1.4401"
	Product components	"Fixings/screws"
	Name of manufacturer	Ejot UK Ltd
	Colour reference	"Silver"
	Thickness	Ø4.8 – Ø10.0mm
	Density	8000 kg/m ³
	Weight per unit area	0.12 kg/m ²
	Flame retardant details	Component is inherently flame retardant
Brief description of manufacturing process		Cold form heading and thread rolling, heat treatment and coating of stainless steel fixings

Note 1: The sponsor was unable to provide this information.

3. Test reports and test results in support of classification

3.1 Test reports

Table 3 details the test reports that have been used in support of classification.

Table 3 Test reports

Name of laboratory	Name of sponsor(s)	Test report no.	Test date	Test and extended application standard
Warringtonfire	RJ Façade Systems Ltd	548451	05 December 2024	EN ISO 1182: 2020
Warringtonfire	RJ Façade Systems Ltd	548453	03 & 04 December 2024	
Warringtonfire	RJ Façade Systems Ltd	548454	27 November 2024	EN ISO 1716: 2018 (*)
Warringtonfire	RJ Façade Systems Ltd	548455	27 November 2024	

(*) As the test procedure for EN ISO 1716 remained identical for versions 2010 & 2018 and no substantial technical changes were noticed in the most recent version 2018, results obtained with the 2018 version can also be considered valid for classification purposes (where only the 2010 version is mentioned).

3.2 Test results

3.2.1 Official test results used for the classification

Table 4 details the test results that have been used in support of classification. The fire performance parameters for class A1 / A1_{FL} can be found in Table 5.

Table 4 Test data

Test method Report number	Parameter	Number of tests	Results	
			Continuous parameters	Compliance with parameters
EN ISO 1182: 2020 548451 (Brickslip)	Mass loss (%)	5	0	-
	Duration of sustained flaming (s)		0	-
	Average furnace temperature rise, ΔT (°C)		0	-
EN ISO 1182: 2020 548453 (Mortar)	Mass loss (%)	5	5	-
	Duration of sustained flaming (s)		0	-
	Average furnace temperature rise, ΔT (°C)		0	-
EN ISO 1716: 2018 548454	Average gross heat of combustion of SUBSTANTIAL component (brick slip), Q_{PCS} (MJ/kg)	3	0.0	-
EN ISO 1716: 2018 548455	Average gross heat of combustion of SUBSTANTIAL component (mortar), Q_{PCS} (MJ/kg)	3	0.1	-
EN ISO 1716: 2018	Average gross heat of combustion of SUBSTANTIAL component (aluminium), Q_{PCS} (MJ/kg)	-	0.0	-
EN ISO 1716: 2018	Average gross heat of combustion of SUBSTANTIAL component (stainless steel brackets), Q_{PCS} (MJ/kg)	-	0.0	-
Gross heat of combustion for product as a whole, Q_{PCS} (MJ/kg)		-	0.1	-

Note: ‘-’ symbol confirms this parameter is not applicable.

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product "Briklok" in relation to its reaction to fire behavior is classified as:

A1

The format of the reaction to fire classification for construction applications and flooring applications products is:

Fire behaviour
A1

Alternatively shown:

Reaction to fire classification: A1

4.3 Field of application

The classification for the product described in Section 2.2 of this report is valid for product as such.

This classification is valid for the following product parameters:

- Brick thickness: 28 mm (No variation allowed)
- Brick weight per unit area: 41.8 kg/m² (No variation allowed)
- Brick density: 1530 kg/m³ (No variation allowed)
- Brick colour: "Leicester Red" (No variation allowed)
- Mortar thickness: 28mm (No variation allowed)
- Mortar weight per unit area: 9.1 kg/m² (No variation allowed)
- Mortar density: 1955.42 kg/m³ (No variation allowed)
- Mortar colour: Grey (No variation allowed)
- Aluminium thickness: 2 mm (No variation allowed)
- Aluminium weight per unit area: 7.8 kg/m² (No variation allowed)
- Steel fixings and brackets (total) weight per unit area: 0.12kg/m² (No variation allowed)
- Steel fixings and brackets (total) density: 8000 kg/m³ (No variation allowed)
- Construction: No variation allowed
- Composition: No variation allowed
- Use of flame retardants: No variation allowed

4.4 Fire performance parameters for A1 / A1_{FL}

All the products described in Section 2.2 and within the field of application defined in Section 4.3 comply with the fire performance parameters shown in Table 5. The test results can be found in Section 3.2.

Table 5 Fire performance parameters for A1 / A1_{FL}

Test method	Parameter	Continuous parameters	Compliance with parameters
EN ISO 1182: 2020	Mass loss (%)	$\Delta m \leq 50 \%$	-
	Duration of sustained flaming (s)	$t_f = 0 \text{ s}$ (i.e. no sustained flaming)	-
	Average furnace temperature rise, ΔT (°C)	$\Delta T \leq 30 \text{ °C}$	-
EN ISO 1716: 2018	Average gross heat of combustion for substantial components of non-homogenous products, Q_{PCS} (MJ/kg)	$PCS \leq 2,0 \text{ MJ/kg}$	-
	For the product as a whole, (MJ/kg)	$PCS \leq 2,0 \text{ MJ/kg}$	-

Note: ‘-’ symbol confirms this parameter is not applicable.

5. Restrictions

At the time the standard EN 13501-1: 2018 was published, no decision was made about the duration of validity of a classification report.

When this report is used to support UKCA marking under the Construction Products Regulation 2011 (retained EU law EUR 2011/305) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 and/or ‘CE+UK(NI)’ marking for Northern Ireland under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011, the provisions of those regulations prevail over any conflicting provisions in the designated/harmonised standards and technical specifications.

6. Limitations

According to the information mentioned by the sponsor on the technical information sheet there was no harmonised product standard for UKCA or CE+UK(NI) marking available at the time the classification report for the tested material/product was drafted. When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for UKCA or CE+UK(NI) marking.

The test laboratory played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide evidence for the traceability of the samples tested.

7. Validity

This document is the original version of this classification report and is written in English. In case of doubt the original version prevails over a translation.

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The classification results relate to the behaviour of a product under the particular conditions of the test(s); they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use, nor can the classification results be extrapolated and applied to other products, or imply suitability for use in configurations not specifically detailed in the classification report. The classification is based on the information available to Warringtonfire at the time of the report. Should conflicting or contradictory evidence become available, Warringtonfire reserves the right to unconditionally withdraw the classification report forthwith upon giving written notice of the same.

Reports are statements of fact prepared in accordance with the referenced version of the standards stated in Section 3 of this report. Test, classification and extended application are based upon the information provided to Warringtonfire. Warringtonfire takes no responsibility for the accuracy or completeness of such information.

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Registered office:

Warringtonfire Testing and Certification Limited
3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA, United Kingdom
Registered Company No. 11371436

Name & address of issuing laboratory:

Warringtonfire Testing and Certification Limited
Holmesfield Road, Warrington WA1 2DS, United Kingdom

Reaction to Fire laboratory locations:

Ghent, Belgium

BELAC accredited laboratory 196-TEST
T: +32 9 243 77 50
Notified Body Number 1173

Warrington, United Kingdom

a UKAS accredited testing laboratory No.0249
T: +44 (0) 1925 655 116
Approved Body Number 0833

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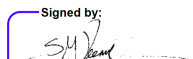
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