

Reaction to fire classification report

Issuing laboratory: Warringtonfire Testing and Certification Limited

Classification standard: EN 13501-1: 2018

Sponsor(s): RJ Façade Systems Ltd

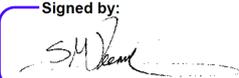
Product(s): “Briklok”

Report number: 548572

Version: 2

Quality management

Version	Date	Summary of amendments including reasons	
1	30 January 2025	Description	Initial issue
			Prepared by
		Name	Authorised by
		Signature	
		Leslie Berry	Stacey Deeming
		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
		Name	Authorised by
		Signature	
		Leslie Berry	Stacey Deeming
		Signed by:  4F525C6BB67A481...	Signed by:  7C2F5D630B7D4C0...
*Signed for and on behalf of Warringtonfire Testing and Certification Limited			

Contents

Quality management	2
1. Introduction	4
2. Details of classified product	4
2.1 General	4
2.2 Product description	4
3. Test reports and test results in support of classification	7
3.1 Test reports	7
3.2 Test results	8
3.2.1 Official test results used for the classification	8
4. Classification and field of application	9
4.1 Reference of classification	9
4.2 Classification	9
4.3 Field of application	10
4.4 Fire performance parameters for A1	11
5. Restrictions	11
6. Limitations	11
7. Validity	12

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.

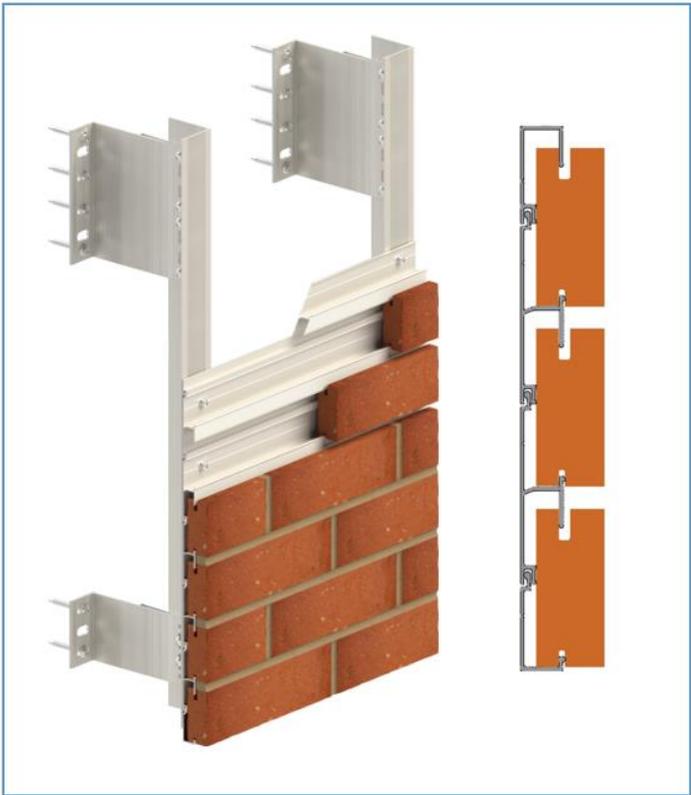
2.2 Product description

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	Ibstock
	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

Continued on next page

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.

This document is issued subject to Warringtonfire's standard terms and conditions, which are available at: [Terms and Conditions | Element](#).

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.

The results stated in this classification report apply to the test specimens as received and/or specified in the referenced/supporting test reports. Any differences in composition, production process, thickness, density or colour of the product may significantly affect the performance and will therefore invalidate the application of the test and classification results to the variant product. It is recommended that any proposed variation to the tested configuration or product should be referred to the sponsor. The sponsor should then obtain appropriate documentary evidence of compliance from Warringtonfire or another accredited testing authority. The supplier of the product is responsible for ensuring that the product which is supplied for use is identical to the test specimens that were tested.

This report may only be reproduced in full. Extracts or abridgements shall not be published without the express written permission of Warringtonfire.

The report is issued for the benefit of Warringtonfire's direct customer only, and may not be relied upon by any third parties without Warringtonfire's express written consent.

This document does not represent type approval or certification of the product. Warringtonfire does not give an opinion nor is it Warringtonfire's responsibility to determine or state whether the product meets any particular fire or life safety standards as set out in the Building Regulations or any other appropriate document.



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

General conditions of use

The data, methodologies, calculations and results documented in this report specifically relate to the tested specimen/s and must not be used for any other purpose. This report may only be reproduced in full. Extracts or abridgements must not be published without permission from Warringtonfire.

All work and services carried out by Warringtonfire are subject to, and conducted in accordance with, our standard terms and conditions. These are available on request or at <https://www.element.com/terms/terms-and-conditions>.

Certificate Of Completion

Envelope Id: F9353877-B5AB-4BAC-83A3-91931591AB10
 Subject: Final Report - RJ Façade Systems Ltd - 548572 Class Report
 Source Envelope:
 Document Pages: 13
 Certificate Pages: 5
 AutoNav: Enabled
 Envelopeld Stamping: Disabled
 Time Zone: (UTC) Dublin, Edinburgh, Lisbon, London

Status: Completed

Envelope Originator:
 Matthew Beeston
 Davidson Building, 5 Southampton Street
 London, London WC2E 7HA
 Matthew.Beeston@warringtonfire.com
 IP Address: 93.96.188.58

Record Tracking

Status: Original
 14-05-25 | 14:14

Holder: Matthew Beeston
 Matthew.Beeston@warringtonfire.com

Location: DocuSign

Signer Events

Leslie Berry
 leslie.berry@warringtonfire.com
 Security Level: Email, Account Authentication
 (None)

Signature

Signed by:

 4F525C6B67A481...

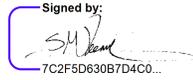
Timestamp

Sent: 14-05-25 | 14:24
 Viewed: 14-05-25 | 15:07
 Signed: 14-05-25 | 15:07

Signature Adoption: Uploaded Signature Image
 Using IP Address: 85.115.54.203

Electronic Record and Signature Disclosure:
 Accepted: 14-05-25 | 15:07
 ID: 04526be9-1059-48ab-81fb-4e11c92d2a77

Stacey Deeming
 stacey.deeming@element.com
 Security Level: Email, Account Authentication
 (None)

Signed by:

 7C2F5D630B7D4C0...

Sent: 14-05-25 | 15:07
 Viewed: 14-05-25 | 19:05
 Signed: 14-05-25 | 19:05

Signature Adoption: Uploaded Signature Image
 Using IP Address: 85.115.54.203

Electronic Record and Signature Disclosure:
 Accepted: 14-05-25 | 19:05
 ID: de8136e1-e633-4f6e-ae07-52ff32f9fb37

In Person Signer Events	Signature	Timestamp
-------------------------	-----------	-----------

Editor Delivery Events	Status	Timestamp
------------------------	--------	-----------

Agent Delivery Events	Status	Timestamp
-----------------------	--------	-----------

Intermediary Delivery Events	Status	Timestamp
------------------------------	--------	-----------

Certified Delivery Events	Status	Timestamp
---------------------------	--------	-----------

Carbon Copy Events	Status	Timestamp
--------------------	--------	-----------

Jeff Holmes
 jeff.holmes@rjfacades.com
 Security Level: Email, Account Authentication
 (None)

COPIED

Sent: 14-05-25 | 19:05
 Viewed: 15-05-25 | 09:18

Electronic Record and Signature Disclosure:
 Not Offered via Docusign

Witness Events	Signature	Timestamp
----------------	-----------	-----------

Notary Events	Signature	Timestamp
----------------------	------------------	------------------

Envelope Summary Events	Status	Timestamps
--------------------------------	---------------	-------------------

Envelope Sent	Hashed/Encrypted	14-05-25 14:24
Certified Delivered	Security Checked	14-05-25 19:05
Signing Complete	Security Checked	14-05-25 19:05
Completed	Security Checked	14-05-25 19:05

Payment Events	Status	Timestamps
-----------------------	---------------	-------------------

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

From time to time, Element Materials Technology Ltd (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

Consequences of changing your mind

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. Further, you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

All notices and disclosures will be sent to you electronically

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

How to contact Element Materials Technology Ltd:

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: info@warringtonfire.com

To advise Element Materials Technology Ltd of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at info@warringtonfire.com and in the body of such request you must state: your previous email address, your new email address. We do not require any other information from you to change your email address.

If you created a DocuSign account, you may update it with your new email address through your account preferences.

To request paper copies from Element Materials Technology Ltd

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to info@warringtonfire.com and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

To withdraw your consent with Element Materials Technology Ltd

To inform us that you no longer wish to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an email to info@warringtonfire.com and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

Acknowledging your access and consent to receive and sign documents electronically

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify Element Materials Technology Ltd as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by Element Materials Technology Ltd during the course of your relationship with Element Materials Technology Ltd.