

Clayworks

FIRE RATINGS FOR CLAYWORKS PLASTERS



GLOBAL CLASSIFICATION REPORT CLAYWORKS SMOOTH



GLOBAL CLASSIFICATION REPORT CLAYWORKS RUSTIC



GLOBAL CLASSIFICATION REPORT CLAYWORKS EXTERIOR



GLOBAL CLASSIFICATION REPORT CLAYWORKS TADELAKT

#### FIRE RATINGS FOR CLAYWORKS PLASTERS:

SMOOTH, TONAL, DEMI RUSTIC AND RUSTIC CLAY PLASTERS CLAYWORKS CUSTOM FINISHES

CLAYWORKS TADELAKT AND EXTERIOR FINISHES

ACHIEVED EUROCLASS A1 FIRE RATING



### **BRE Global Classification Report**

Classification of reaction to fire performance in accordance with BS EN 13501-1: 2018 on Clayworks Smooth Topcoat

Prepared for: Clayworks Limited

Date: 07 November 2022

Report Number: P124112-1002 Issue 1

BRE Global Ltd Watford, Herts WD25 9XX

Customer Services 0333 321 8811

From outside the UK: T + 44 (0) 1923 664000 F + 44 (0) 1923 664010 E enquiries@bre.co.uk www.bre.co.uk Prepared for:

Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom

Classification of reaction to fire performance to EN 13501-1; 2018

Report Number: P124112-1002

Issue 1



#### Prepared by

Name C A Rock

Position Principal Consultant

Signature

#### Authorised by

Name J Hunter

Position Section Leader, Reaction to Fire

(ARock

Date 07 November 2022

Signature

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Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

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Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

Issue 1



#### 1 Introduction

This classification report defines the classification assigned to 'Clayworks Smooth Topcoat' in accordance with the procedures given in BS EN 13501-1: 2018<sup>1</sup>.

### **BRE Global**

### CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1: 2018

Sponsor: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Prepared for: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Manufacturer: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Place of Manufacture: Cornwall, United Kingdom

Prepared by: BRE Global, Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX,

UK

Notified Body No.: 0832

Product name: Clayworks Smooth Topcoat

Classification report No.: P124112-1002

Issue number: One

Date of issue: 16 October 2022

This classification report consists of 11 pages and may only be used or reproduced in its entirety.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

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#### 2 Details of classified product

#### 2.1 General

The product, 'Clayworks Smooth Topcoat', is defined by the test sponsor as a clay plastering mortar in accordance with BS EN 998-1<sup>2</sup>.

#### 2.2 Product description

The product, 'Clayworks Smooth Topcoat', is described in section 2.2.2.

#### 2.2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for test and the products supplied to market. The results apply to the samples as received.

#### 2.2.2 Sample details

Unless otherwise stated all measurements are nominal.

Parameter	Details
Test sponsor	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Prepared for	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Manufacturer of sample	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Place of manufacture	Cornwall, United kingdom
Place of manufacture	Clayworks Smooth Topcoat
Sample reference	Smooth Topcoat
Sample description (as provided by test sponsor/manufacturer)	Smooth finish clay plaster. The test sponsor's product description is shown in Appendix A of this

Classification of reaction to fire performance to EN 13501-1: 2018

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Parameter	Details				
	report.				
Description of sample (as received)	An off-white granular material ground to a fine powder by a representative of BRE Global and a set of off-white cylinders meeting the dimension requirements specified in BS EN ISO 1182 <sup>2</sup> . The test samples as received are shown in Appendix A of this report.				
Test sponsor's product data					
Generic type of product	Clay plaster				
Nominal thickness of product (mm)	Various				
Nominal density of product (kg/m³)	1600				
Nominal mass per unit area of product (kg/m²)	Various, dependant on thickness				
Colour	Off-white (determined by BRE Global)				
Finish	Smooth				
Flame retardant treatment added, or organic content limited during production (yes/no)	No				
European product standard, if applicable	BS EN 998-1 <sup>2</sup>				
Substrate and ventilation conditions	bstrate and ventilation conditions				
Generic type of substrate	None				
ntilation condition					
Type of air gap	None				
asured sample data, measured by BRE Global, determined by BRE Global at 23 °C $\pm$ 2 °C and % $\pm$ 5% RH (Based on BS EN ISO 1182 test specimens, Batch 1)					
Mean sample density (kg/m³)	1674.7 (range 1643.2 to 1721.6)				
Measured sample data, measured by BRE G 50% ± 5% RH (Based on BS EN ISO 1182 tes	lobal, determined by BRE Global at 23 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C and t specimens, Batch 2)				
Mean sample height (mm)	49.52 (range 49.11 to 49.86)				
Mean sample mass per unit area (kg/m²)	83.35 (range 80.03 to 84.89)				
Mean sample density (kg/m³)	1683.0 (range 1629.6 to 1704.3)				
Test information					
Face to be tested	Not applicable, homogeneous				
Orientation aspects	Not applicable				
Test sponsor's sampling identification	Note 1				
BRE Global sample number	E14392 and E14485				
Additional information	None				

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

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#### 3 Reports & results in support of this classification

#### 3.1 Reports

Name of Laboratory	Name of test sponsor	Test reports Nos.	Test method/field of application rules
BRE Global	Clayworks Limited	P124112-1000 Issue 1	EN ISO 1182 <sup>3</sup>
BRE Global	Clayworks Limited	P124112-1001 Issue 1	EN ISO 17164

#### 3.2 Results

Test method &	Parameter	No. test runs	Results		
test number			Continuous parameter - mean (m)	Compliance with parameters Criterion / Compliance status, A1	
BS EN ISO 1182	ΔТ		0.45 °C	ΔT ≤ 30 °C / Compliant	
P124112-1000	Δ1		0.40 0	AT = 50 C / Compliant	
Tested: 05/10/2022 & 10/10/2022	Δm	5	4.9 %	Δm ≤ 50 % / Compliant	
E14485	t <sub>f</sub>		0 s	t <sub>f</sub> = 0 / Compliant	
BS EN ISO 1716					
P124112-1001					
Tested: 02/09/2022 & 16/09/2022	Q <sub>PCS</sub>	3	0.24 MJ/kg	Q <sub>PCS</sub> ≤ 2.0 MJ/kg / Compliant	
E14392					

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

Issue 1



#### 4 Classification and field of application

#### 4.1 Reference of classification

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

#### 4.2 Classification

The product, 'Clayworks Smooth Topcoat', in relation to reaction to fire behaviour is classified:

Δ1

The additional classification in relation to smoke production is:

.

The additional classification in relation to flaming droplets / particles is:

.

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smoke Production			Flar	ning Droplets
A1	-	s	-	,	d	-

i.e., A1

#### Reaction to fire classification: A1

#### 4.3 Field of application

This classification is valid for:

i) Clay plastering mortar.

And the following product and mounting and fixing parameters:

Parameter	Field of application		
Colour	Off-white. As tested, no variation in colour allowed.		
Finish	As tested. No variation in finish allowed.		
Composition	As tested. No variation in composition allowed.		
Facing	None. No variation allowed.		
Overall thickness	Valid for all thicknesses		
Density	Nominal 1600. 1683.0 kg/m³ (range 1629.6 kg/m³ to 1704.3 kg/m³) measured by BRE. No variation in density allowed.		

Classification of reaction to fire performance to EN 13501-1; 2018

Report Number: P124112-1002

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#### 5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures, or stages (e.g., no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

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

The information in Section 2.2.2 of this report, other than that indicated otherwise, was supplied by the test sponsor and was not independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurement of reaction to fire, it is not possible to provide a stated degree of accuracy of the results.

#### 6 References

- BS EN 13501-1: 2018. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests. BSI, London. 2018.
- BS EN 998-1: 2016. Specification for mortar for masonry. Part 1: Rendering and plastering mortar. BSI, London. 2016.
- 3. BS EN ISO 1182: 2020. Reaction to fire tests for products Non-combustibility test. BSI, London.
- BS EN ISO 1716: 2018. Reaction to fire tests for products Determination of the gross heat of combustion (calorific value). BSI, London. 2018.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

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#### Appendix A Sample description

#### Table A.1: Test sponsor's product description

Test sponsor Clayworks Ltd., Unit 5, Higher Bochym Rural Workshops, Cury Cross Lanes, Cornwall TR127AZ			
Parameter	Details		
Trade name of product tested	Clayworks Smooth Topcoat		
General description of product tested	Smooth Finish Clay Plaster		
Name and address of manufacturer of product	Clayworks Ltd, Unit 5 Higher Bochym Rural Workshops, Cury Cross Lanes, Helston, Cornwall TR12 7AZ		
Place of manufacture	Cornwall, UK		
Product reference/number	Smooth Topcoat		
Overall thickness	2 mm		
Overall density	1600 kg/m³		
Overall mass per unit area	3.125 kg/m²		
Generic type of product	Clay Plaster		
Flame retardant treatment added, or organic content limited during production (yes/no), if yes give details	None		
Harmonised EN product standard, and AVCP System No. if applicable	Note 1		
Product breakdown			
Core material - Generic type	Clay Plaster		
- Product reference/name	Smooth Topcoat		
- Manufacturer	Clayworks Ltd		
- Batch No.	Note 1		
- Thickness	2 mm		
- Mass per unit area/ density	3.125 kg/m²		
- Colour reference	Note 1		
- Trade name flame retardant	Note 1		
- Generic type flame retardant	Note 1		
- Amount flame retardant	Note 1		
Sampling Identification Reference (if applicable)	Note 1		
Additional information	Note 1		

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124112-1002

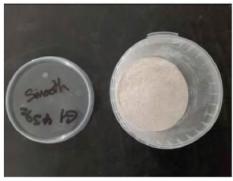


Figure A.1: Test sample as received (BS EN ISO 1182)





Figure A.2: Test sample as received (BS EN ISO 1716)





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### **BRE Global Classification Report**

Classification of reaction to fire performance in accordance with BS EN 13501-1: 2018 on Clayworks Rustic

Prepared for: Clayworks Limited

Date: 07 November 2022

Report Number: P124111-1002 Issue 1

BRE Global Ltd Watford, Herts WD25 9XX

Customer Services 0333 321 8811

From outside the UK: T + 44 (0) 1923 664000 F + 44 (0) 1923 664010 E enquiries@bre.co.uk www.bre.co.uk Prepared for:

Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom

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Classification of reaction to fire performance to EN 13501-1; 2018

Report Number: P124111-1002

Issue 1



#### Prepared by

Name C A Rock

Position Principal Consultant

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#### Authorised by

Name J Hunter

Position Section Leader, Reaction to Fire

CARack

Date 07 November 2022

Signature

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BRE Global's liability in respect of this report and reliance thereupon shall be as per the terms and conditions of contract with the client and BRE Global shall have no liability to third parties to the extent permitted in law.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue 1



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Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue 1



#### 1 Introduction

This classification report defines the classification assigned to 'Clayworks Rustic' in accordance with the procedures given in BS EN 13501-1: 2018<sup>1</sup>.

### **BRE Global**

### CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1: 2018

Sponsor: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Prepared for: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Manufacturer: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Place of Manufacture: Cornwall, United Kingdom

Prepared by: BRE Global, Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX,

UK

Notified Body No.: 0832

Product name: Clayworks Rustic
Classification report No.: P124111-1002

Issue number: One

Date of issue: 16 September 2022

This classification report consists of 11 pages and may only be used or reproduced in its entirety.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

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#### 2 Details of classified product

#### 2.1 General

The product, 'Clayworks Rustic', is defined by the test sponsor as a clay plastering mortar in accordance with BS EN 998-1<sup>2</sup>.

#### 2.2 Product description

The product, 'Clayworks Rustic', is described in section 2.2.2.

#### 2.2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for test and the products supplied to market. The results apply to the samples as received.

#### 2.2.2 Sample details

Unless otherwise stated all measurements are nominal.

Parameter	Details
Test sponsor	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Prepared for	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Manufacturer of sample	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Place of manufacture	Cornwall, United Kingdom
Place of manufacture	Clayworks Rustic
Sample reference	Rustic
Sample description (as provided by test sponsor/manufacturer)	Rustic Finish Clay Plaster. The test sponsor's product description is shown in Appendix A of this

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Classification of reaction to fire performance to EN 13501-1: 2018

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Parameter	Details					
	report.					
Description of sample (as received)	A light brown/buff coloured granular material ground to a fine powder by a representative of BRE Global and a set of light brown/buff coloured cylinders meeting the dimension requirements specified in BS EN ISO 1182 <sup>2</sup> . The test samples as received are shown in Appendix A of this report.					
Test sponsor's product data						
Generic type of product	Clay plaster					
Nominal thickness of product (mm)	Various					
Nominal density of product (kg/m³)	1722					
Nominal mass per unit area of product (kg/m²)	Various, dependant on thickness					
Colour	Light brown/buff (determined by BRE Global)					
Finish	Rustic					
Flame retardant treatment added, or organic content limited during production (yes/no)	No					
European product standard, if applicable	BS EN 998-1 <sup>2</sup>					
ubstrate and ventilation conditions						
Generic type of substrate	None					
ventilation condition	ntilation condition					
Type of air gap	None					
	easured sample data, measured by BRE Global, determined by BRE Global at 23 °C $\pm$ 2 °C and % $\pm$ 5% RH (Based on BS EN ISO 1182 test specimens)					
Mean sample height (mm)	49.36 (range 49.71 to 49.87)					
Mean sample mass per unit area (kg/m²)	83.38 (range 81.00 to 84.69)					
Mean sample density (kg/m³)	1689.2 (range 1666.2 to 1703.2)					
Test information						
Face to be tested	Not applicable, homogeneous					
Orientation aspects	Not applicable					
Test sponsor's sampling identification	Note 1					
BRE Global sample number	E14387 and E14391					
Additional information	None					

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue 1



#### 3 Reports & results in support of this classification

#### 3.1 Reports

Name of Laboratory	Name of test sponsor	Test reports Nos.	Test method/field of application rules
BRE Global	Clayworks Limited	P124111-1000 Issue 1	EN ISO 11823
BRE Global	Clayworks Limited	P124111-1001 Issue 1	EN ISO 1716 <sup>4</sup>

#### 3.2 Results

Test method &	Parameter	No.	Results		
test number		test runs	Continuous parameter - mean (m)	Compliance with parameters Criterion / Compliance status, A1	
<b>BS EN ISO 1182</b> P124111-1000	ΔΤ		0.46 °C	ΔT ≤ 30 °C / Compliant	
Tested: 09/09/2022, 13/09/2022 &	Δm	5	1.4 %	∆m ≤ 50 % / Compliant	
14/09/2022 E14387	t <sub>f</sub>		0 s	t <sub>f</sub> = 0 / Compliant	
BS EN ISO 1716 P124111-1001 Tested: 16/09/2022 E14391	Q <sub>PCS</sub>	3	0.16 MJ/kg	Q <sub>PCS</sub> ≤ 2.0 MJ/kg / Compliant	

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Classification of reaction to fire performance to EN 13501-1: 2018

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#### 4 Classification and field of application

#### 4.1 Reference of classification

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

#### 4.2 Classification

The product, 'Clayworks Rustic', in relation to reaction to fire behaviour is classified:

A

The additional classification in relation to smoke production is:

.

The additional classification in relation to flaming droplets / particles is:

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smo	ke Pro	duction		Flan	ning Droplets
A1	-	s		-	,	d	-

i.e., A1

#### Reaction to fire classification: A1

#### 4.3 Field of application

This classification is valid for:

i) Clay plaster.

And the following product and mounting and fixing parameters:

Parameter	Field of application
Colour	Light brown/buff. As tested, no variation in colour allowed.
Finish	As tested. No variation in finish allowed.
Composition	As tested. No variation in composition allowed.
Facing	None. No variation allowed.
Overall thickness	Valid for all thicknesses
Density	Nominal 1722 (1689.2 kg/m³ ± 23 kg/m³ measured by BRE). No variation in density allowed.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue 1



#### 5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures, or stages (e.g., no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

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

The information in Section 2.2.2 of this report, other than that indicated otherwise, was supplied by the test sponsor and was not independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurement of reaction to fire, it is not possible to provide a stated degree of accuracy of the results.

#### 6 References

- BS EN 13501-1: 2018. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests. BSI, London. 2018.
- BS EN 998-1: 2016. Specification for mortar for masonry. Part 1: Rendering and plastering mortar. BSI, London. 2016.
- BS EN ISO 1182: 2020. Reaction to fire tests for products Non-combustibility test. BSI, London. 2020
- BS EN ISO 1716: 2018. Reaction to fire tests for products Determination of the gross heat of combustion (calorific value). BSI, London. 2018.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue 1

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#### Appendix A Product description

#### Table A.1: Test sponsor's product description

<b>Test sponsor</b> Clayworks Ltd., Unit 5, Higher Bochym Rural Workshops, Cury Cross Lanes, Cornwall TR127AZ				
Parameter	Details			
Trade name of product tested	Clayworks Rustic			
General description of product tested	Rustic Finish Clay Plaster			
Name and address of manufacturer of product	Clayworks Ltd, Unit 5 Higher Bochym Rural Workshops, Cury Cross Lanes, Helston, Cornwall TR12 7AZ			
Place of manufacture	Cornwall, UK			
Product reference/number	Rustic			
Overall thickness	8 mm			
Overall density	1722 kg/m³			
Overall mass per unit area	16.65 kg/m²			
Generic type of product	Clay Plaster			
Flame retardant treatment added, or organic content limited during production (yes/no), if yes give details	None			
Harmonised EN product standard, and AVCP System No. if applicable	Note 1			
Product breakdown				
Core material - Generic type	Clay Plaster			
- Product reference/name	Rustic			
- Manufacturer	Clayworks Ltd			
- Batch No.	Note 1			
- Thickness	8 mm			
- Mass per unit area/ density	16.65 kg/m²			
- Colour reference	Note 1			
- Trade name flame retardant	Note 1			
- Generic type flame retardant	Note 1			
- Amount flame retardant	Note 1			
Sampling Identification Reference (if applicable)	Note 1			
Additional information	Note 1			

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124111-1002

Issue



Figure A.1: Test sample as received (BS EN ISO 1182)

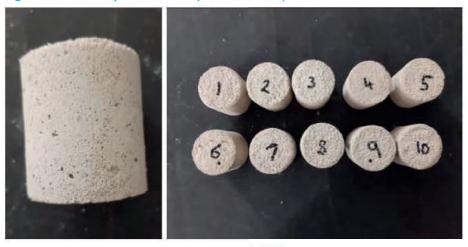


Figure A.2: Test sample as received (BS EN ISO 1716)



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### **BRE Global Classification Report**

Classification of reaction to fire performance in accordance with BS EN 13501-1: 2018 on Clayworks Exterior Finishes

Prepared for: Clayworks Limited

Date: 07 November 2022

Report Number: P124110-1002 Issue 1

BRE Global Ltd Watford, Herts WD25 9XX

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Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

Issue 1



#### Prepared by

Name C A Rock

Position Principal Consultant

Signature

#### Authorised by

Name J Hunter

Position Section Leader, Reaction to Fire

CARock

Date 07 November 2022

Signature

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BRE Global's liability in respect of this report and reliance thereupon shall be as per the terms and conditions of contract with the client and BRE Global shall have no liability to third parties to the extent permitted in law.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

Issue 1



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Classification of reaction to fire performance to EN 13501-1: 2018

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#### 1 Introduction

This classification report defines the classification assigned to 'Clayworks Exterior Finishes' in accordance with the procedures given in BS EN 13501-1: 2018<sup>1</sup>.

### **BRE Global**

### CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1: 2018

Sponsor: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Prepared for: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Manufacturer: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Place of Manufacture: Cornwall, United Kingdom

Prepared by: BRE Global, Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX,

UK

Notified Body No.: 0832

Product name: Clayworks Exterior Finishes

Classification report No.: P124110-1002

Issue number: One

Date of issue: 16 September 2022

This classification report consists of 11 pages and may only be used or reproduced in its entirety.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

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#### 2 Details of classified product

#### 2.1 General

The product, 'Clayworks Exterior Finishes', is defined by the test sponsor as a lime-based rendering and plastering mortar in accordance with BS EN 998-1<sup>2</sup>.

#### 2.2 Product description

The product, 'Clayworks Exterior Finishes', is described in section 2.2.2.

#### 2.2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for test and the products supplied to market. The results apply to the samples as received.

#### 2.2.2 Sample details

Unless otherwise stated all measurements are nominal.

Parameter	Details
Test sponsor	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Prepared for	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Manufacturer of sample	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom
Place of manufacture	Cornwall, United Kingdom
Trade name (as provided by test sponsor)	Clayworks Exterior Finishes
Sample reference	Exterior Finish
Sample description (as provided by test sponsor/manufacturer)	Exterior Lime Render. The test sponsor's product description is shown in Appendix A of this report.

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Classification of reaction to fire performance to EN 13501-1: 2018

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Parameter	Details			
Description of sample (as received)	A light sand/buff coloured granular material ground to a fine powder by a representative of BRE Global and a set of light sand/buff coloured cylinders meeting the dimension requirements specified in BS EN ISO 1182 <sup>2</sup> . The test samples as received are shown in Appendix A of this report.			
Test sponsor's product data				
Generic type of product	Lime Render			
Nominal thickness of product (mm)	Various			
Nominal density of product (kg/m³)	1650			
Nominal mass per unit area of product (kg/m²)	Various, dependant on thickness			
Colour	Light sand/light buff (determined by BRE Global)			
Finish	Exterior			
Flame retardant treatment added, or organic content limited during production (yes/no)	No			
European product standard, if applicable	BS EN 998-1 <sup>2</sup>			
Substrate and ventilation conditions				
Generic type of substrate	None			
ventilation condition				
Type of air gap	None			
Measured sample data, measured by BRE GI 50% ± 5% RH (Based on BS EN ISO 1182 test	lobal, determined by BRE Global at 23 °C ± 2 °C and t specimens)			
Mean sample height (mm)	49.27 (range 48.16 to 49.87)			
Mean sample mass per unit area (kg/m²)	81.89 (range 79.87 to 83.91)			
Mean sample density (kg/m³)	1662.2 (range 1643.1 to 1693.4)			
Test information				
Face to be tested	Not applicable, homogeneous			
Orientation aspects	Not applicable			
Test sponsor's sampling identification	Note 1			
BRE Global sample number	E14386 and E14390			
Additional information	None			
	<u> </u>			

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Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

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#### 3 Reports & results in support of this classification

#### 3.1 Reports

Name of Laboratory Name of test sponsor		Test reports Nos.	Test method/field of application rules	
BRE Global	Clayworks Limited	P124110-1000 Issue 1	EN ISO 11823	
BRE Global	Clayworks Limited	P124110-1001 Issue 1	EN ISO 1716 <sup>4</sup>	

#### 3.2 Results

test number test runs C	Parameter		Results		
	Continuous parameter - mean (m)	Compliance with parameters Criterion / Compliance status, A1			
BS EN ISO 1182	ΔΤ		0.94 °C	ΔT ≤ 30 °C / Compliant	
P124110-1000	31		0.04 0	AT 200 O TOOMpliant	
Tested: 07/09/2022, 08/09/2022 &	Δm	5	4.0 %	∆m ≤ 50 % / Compliant	
09/09/2022 E14386	t <sub>f</sub>		0 s	t <sub>f</sub> = 0 / Compliant	
BS EN ISO 1716					
P124110-1001					
Tested: 16/09/2022	Q <sub>PCS</sub>	3	0.10 MJ/kg	Q <sub>PCS</sub> ≤ 2.0 MJ/kg / Compliant	
E14390					
£17000					

Classification of reaction to fire performance to EN 13501-1: 2018

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#### 4 Classification and field of application

#### 4.1 Reference of classification

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

#### 4.2 Classification

The product, 'Clayworks Exterior Finishes', in relation to reaction to fire behaviour is classified:

A

The additional classification in relation to smoke production is:

-

The additional classification in relation to flaming droplets / particles is:

.

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smo	ke Production		Flan	ning Droplets
A1	-	s	-	,	d	-

i.e., A1

#### Reaction to fire classification: A1

#### 4.3 Field of application

This classification is valid for:

i) Lime render

And the following product and mounting and fixing parameters:

Parameter	Field of application
Colour	Light sand/light buff. As tested, no variation in colour allowed.
Finish	As tested. No variation in finish allowed.
Composition	As tested. No variation in composition allowed.
Facing	None. No variation allowed.
Overall thickness	Valid for all thicknesses
Density	Nominal 1650 (1662.2 kg/m³ ± 31.2 kg/m³ measured by BRE). No variation in density allowed.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

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#### 5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures, or stages (e.g., no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

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

The information in Section 2.2.2 of this report, other than that indicated otherwise, was supplied by the test sponsor and was not independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurement of reaction to fire, it is not possible to provide a stated degree of accuracy of the results.

#### 6 References

- BS EN 13501-1: 2018. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests. BSI, London. 2018.
- BS EN 998-1: 2016. Specification for mortar for masonry. Part 1: Rendering and plastering mortar. BSI, London. 2016.
- BS EN ISO 1182: 2020. Reaction to fire tests for products Non-combustibility test. BSI, London. 2020.
- BS EN ISO 1716: 2018. Reaction to fire tests for products Determination of the gross heat of combustion (calorific value). BSI, London. 2018.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002

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#### Appendix A Product description

#### Table A.1: Test sponsor's product description

Test sponsor Clayworks Ltd., Unit 5, Higher Bochym Rural Workshops, Cury Cross Lanes, Cornwall TR127AZ				
Parameter	Details			
Trade name of product tested	Clayworks Exterior Finishes			
General description of product tested	Exterior Lime Render			
Name and address of manufacturer of product	Clayworks Ltd, Unit 5 Higher Bochym Rural Workshops, Cury Cross Lanes, Helston, Cornwall TR12 7AZ			
Place of manufacture	Cornwall, UK			
Product reference/number	Exterior Finish			
Overall thickness	8 mm			
Overall density	1650 kg/m³			
Overall mass per unit area	15 kg/m²			
Generic type of product	Lime Render			
Flame retardant treatment added, or organic content limited during production (yes/no), if yes give details	None			
Harmonised EN product standard, and AVCP System No. if applicable	Note 1			
Product breakdown				
Core material - Generic type	Clay Plaster			
- Product reference/name	Rustic			
- Manufacturer	Clayworks Ltd.			
- Batch No.	Note 1			
- Thickness	8 mm			
- Mass per unit area/ density	15 kg/m²			
- Colour reference	Note 1			
- Trade name flame retardant	Note 1			
- Generic type flame retardant	Norte 1			
- Amount flame retardant	Note 1			
Sampling Identification Reference (if applicable)	Note 1			
Additional information	Note 1			

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P124110-1002



Figure A.1: Test sample as received (BS EN ISO 1182)

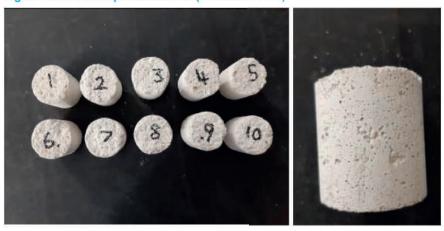
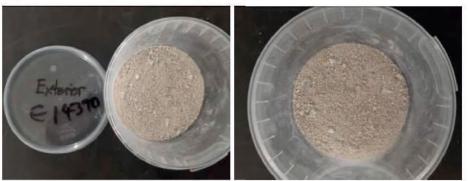


Figure A.2: Test sample as received (BS EN ISO 1716)



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### **BRE Global Classification Report**

Classification of reaction to fire performance in accordance with BS EN 13501-1: 2018 on Clayworks Tadelakt

Prepared for: Clayworks Limited

Date: 07 November 2022

Report Number: P123078-1002 Issue 1

BRE Global Ltd Watford, Herts WD25 9XX

Customer Services 0333 321 8811

From outside the UK: T + 44 (0) 1923 664000 F + 44 (0) 1923 664010 E enquiries@bre.co.uk www.bre.co.uk Prepared for:

Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom

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Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P123078-1002

Issue 1



#### Prepared by

Name C A Rock

Position Principal Consultant

Signature

#### Authorised by

Name J Hunter

Position Section Leader, Reaction to Fire

CARock

Date 07 November 2022

Signature

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BRE Global's liability in respect of this report and reliance thereupon shall be as per the terms and conditions of contract with the client and BRE Global shall have no liability to third parties to the extent permitted in law.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P123078-1002

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5	Lin	itations	9			
6	Ref	erences	9			
A	pendix	A Product description	10			
	Table A	a.1: Test sponsor's product description	10			
	Figure	A.1: Test sample as received (BS EN ISO 1182)	11			
	Figure A.2: Test sample as received (BS EN ISO 1716)					

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Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P123078-1002

Issue 1



#### 1 Introduction

This classification report defines the classification assigned to 'Clayworks Tadelakt' in accordance with the procedures given in BS EN 13501-1: 2018<sup>1</sup>.

### **BRE Global**

### CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH BS EN 13501-1: 2018

Sponsor: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Prepared for: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Manufacturer: Clayworks Limited, Unit 5, Higher Bochym Rural Workshops, Cury Cross

Lanes, Helston, Cornwall, TR12 7AZ, United Kingdom

Place of Manufacture: Cornwall, United Kingdom

Prepared by: BRE Global, Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX,

UK

Notified Body No.: 0832

Product name: Clayworks Tadelakt

Classification report No.: P123078-1002

Issue number: One

Date of issue: 16 September 2022

This classification report consists of 11 pages and may only be used or reproduced in its entirety.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P123078-1002

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#### 2 Details of classified product

#### 2.1 General

The product, 'Clayworks Tadelakt', is defined by the test sponsor as a lime-based rendering and plastering mortar in accordance with BS EN 998-12.

#### 2.2 Product description

The product, 'Clayworks Tadelakt', is described in section 2.2.2.

#### 2.2.1 Traceability

The test samples were supplied by the test sponsor. BRE Global was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for test and the products supplied to market. The results apply to the samples as received.

#### 2.2.2 Sample details

Unless otherwise stated all measurements are nominal,

Parameter	Details				
Test sponsor	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom				
Prepared for	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom				
Manufacturer of sample	Clayworks Limited Unit 5 Higher Bochym Rural Workshops Cury Cross Lanes Helston Cornwall TR12 7AZ United Kingdom				
Place of manufacture	Cornwall, UK				
Trade name	Clayworks Tadelakt				
Sample reference	Clayworks Tadelakt				

Classification of reaction to fire performance to EN 13501-1: 2018

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Parameter	Details					
Sample description (as provided by test sponsor/manufacturer)	Interior Water Resistant Plaster. The test sponsor's product description is shown in Appendix A of this report.					
Description of sample (as received)	A white granular material ground to a fine powder by a representative of BRE Global and a set of white cylinders meeting the dimension requirements specified in BS EN ISO 1182 <sup>2</sup> . The test samples as received are shown in Appendix A of this report.					
Test sponsor's product data						
Generic type of product	Lime render					
Nominal thickness of product (mm)	Various					
Nominal density of product (kg/m³)	1600					
Nominal mass per unit area of product (kg/m²)	Various, dependant on thickness					
Colour	White (determined by BRE Global)					
Finish	Smooth					
Flame retardant treatment added, or organic content limited during production (yes/no)	No					
European product standard, if applicable	BS EN 998-1 <sup>2</sup>					
Substrate and ventilation conditions						
Generic type of substrate	None					
ventilation condition						
Type of air gap	None					
Measured sample data, measured by BRE Global, determined by BRE Global at 23 °C ± 2 °C and 50% ± 5% RH (Based on BS EN ISO 1182 test specimens)						
Mean sample height (mm)	48.73 (range 48.05 to 49.57)					
Mean sample mass per unit area (kg/m²)	81.47 (range 80.21 to 82.41)					
Mean sample density (kg/m³)	1671.9 (range 1649.1 to 1696.4)					
Test information						
Face to be tested	Not applicable, homogeneous					
Orientation aspects	Not applicable					
Test sponsor's sampling identification	Note 1					
BRE Global sample number	E14385 and E14389					
Additional information	None					

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

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#### 3 Reports & results in support of this classification

#### 3.1 Reports

Name of Laboratory	Name of test sponsor	Test reports Nos.	Test method/field of application rules	
BRE Global	Clayworks Limited	P123078-1000 Issue 1	EN ISO 1182 <sup>3</sup>	
BRE Global	Clayworks Limited	P123078-1001 Issue 1	EN ISO 17164	

#### 3.2 Results

est method &	Parameter	No. test runs	Results		
test number			Continuous parameter - mean (m)	Compliance with parameters Criterion / Compliance status, A1	
<b>BS EN ISO 1182</b> P123078-1000	ΔΤ		0.38 °C	ΔT ≤ 30 °C / Compliant	
Tested: 02/09/2022, 05/09/2022 &	Δm	5	8.7 %	∆m ≤ 50 % / Compliant	
06/09/2022 E14385	t <sub>f</sub>		0 s	t <sub>f</sub> = 0 / Compliant	
BS EN ISO 1716 P123078-1001 Tested: 02/09/2022 & 16/09/2022 E14389	Q <sub>PCS</sub>	3	0.02 MJ/kg	Q <sub>PCS</sub> ≤ 2.0 MJ/kg / Compliant	

Classification of reaction to fire performance to EN 13501-1: 2018

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#### 4 Classification and field of application

#### 4.1 Reference of classification

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

#### 4.2 Classification

The product, 'Clayworks Tadelakt', in relation to reaction to fire behaviour is classified:

Δ,

The additional classification in relation to smoke production is:

\_

The additional classification in relation to flaming droplets / particles is:

-

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire Behaviour		Smoke Production				Flaming Droplets	
A1	-	s	-	-	,	d	-

i.e., A1

#### Reaction to fire classification: A1

#### 4.3 Field of application

This classification is valid for:

i) Lime-based render

And the following product and mounting and fixing parameters:

Parameter	Field of application			
Colour	White. As tested, no variation in colour allowed.			
Finish	As tested. No variation in finish allowed.			
Composition	As tested. No variation in composition allowed.			
Facing	None. No variation allowed.			
Overall thickness	Valid for all thicknesses			
Density	Nominal 1600 (1671.9 kg/m³ ± 24.5 kg/m³ measured by BRE). No variation in density allowed.			

Classification of reaction to fire performance to EN 13501-1: 2018

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#### 5 Limitations

This classification document does not represent type approval or certification of the product.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 of AVCP and CE marking under the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures, or stages (e.g., no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence, the manufacturer has concluded that system 3 attestation is appropriate.

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

The information in Section 2.2.2 of this report, other than that indicated otherwise, was supplied by the test sponsor and was not independently verified by BRE Global. The validity of the results is conditional on the accuracy of that data.

Because of the nature of reaction to fire testing and the consequent difficulty in quantifying the uncertainty of measurement of reaction to fire, it is not possible to provide a stated degree of accuracy of the results.

#### 6 References

- BS EN 13501-1: 2018. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests. BSI, London. 2018.
- BS EN 998-1: 2016. Specification for mortar for masonry. Part 1: Rendering and plastering mortar. BSI, London. 2016.
- BS EN ISO 1182: 2020. Reaction to fire tests for products Non-combustibility test. BSI, London. 2020.
- BS EN ISO 1716: 2018. Reaction to fire tests for products Determination of the gross heat of combustion (calorific value). BSI, London. 2018.

Classification of reaction to fire performance to EN 13501-1: 2018

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#### Appendix A Product description

#### Table A.1: Test sponsor's product description

Test sponsor Clayworks Ltd., Unit 5, Higher Bochym Rural Workshops, Cury Cross Lanes, Cornwall TR127AZ				
Parameter	Details			
Trade name of product tested	Clayworks Tadelakt			
General description of product tested	Interior Water Resistant Plaster			
Name and address of manufacturer of product	Clayworks Ltd, Unit 5 Higher Bochym Rural Workshops, Cury Cross Lanes, Helston, Cornwall TR12 7AZ			
Place of manufacture	Cornwall, UK			
Product reference/number	Clayworks Tadelakt			
Overall thickness	2 mm			
Overall density	1600 kg/m³			
Overall mass per unit area	3 kg/m²			
Generic type of product	Lime render			
Flame retardant treatment added, or organic content limited during production (yes/no), if yes give details	None			
Harmonised EN product standard, and AVCP System No. if applicable	Note 1			
Product breakdown				
Core material - Generic type	Interior Water Resistant Plaster			
- Product reference/name	Clayworks Tadelakt			
- Manufacturer	Clayworks Ltd			
- Batch No.	Note 1			
- Thickness	2 mm			
- Mass per unit area/ density	3 kg/m²			
- Colour reference	Note 1			
- Trade name flame retardant	Note 1			
- Generic type flame retardant	Note 1			
- Amount flame retardant	Note 1			
Sampling Identification Reference (if applicable)	Note 1			
Additional information	Note 1			

Note 1: This information was not supplied by the test sponsor.

Classification of reaction to fire performance to EN 13501-1: 2018

Report Number: P123078-1002

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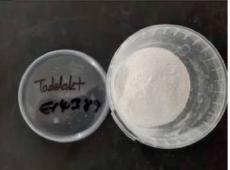


Figure A.1: Test sample as received (BS EN ISO 1182)



Figure A.2: Test sample as received (BS EN ISO 1716)





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