

System Laboratories UK LTD
Classification Report
Classification of reaction to fire
performance of construction products and
building elements in accordance with BS
EN 13501-1:2018

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Report Number 123
Issue C
Prepared for Stone Cladding Systems Limited
Date 01/11/2022

Issue	Changes
A	First issue
B	Changes to specimen thickness and trade name
C	Correction of stone thickness

Prepared by

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Date 01/11/2022

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1. Introduction

This classification report defines the classification assigned to Aztec Stone Rainscreen Cladding , in accordance with the procedures given in BS EN 13501-1: 2018 and 96/603/EC.

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

Sponsor: Stone Cladding Systems Limited
Prepared for: Stone Cladding Systems Limited
Place of manufacture: Westwood, Ashbourne, DE6 3AZ, UK

CAB Number: N/A
Classification report No.: 123-C
Date of issue 01/11/2022

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1. Details of classified product

2.1. General

Classification according to BS EN 13501-1:2018 and 96/603/EC of Aztec Stone Rainscreen Cladding.

2.2. Traceability

The test sample was supplied by the sponsor. System Laboratories UK LTD was not involved in the sampling process and therefore cannot comment upon the relationship between the samples supplied for the test and the products supplied to the market.

2.3. Sample details

Test sponsor Stone Cladding Systems Limited
Westwood
Ashbourne
DE6 3AZ
United Kingdom

Place of manufacture As above

Trade name Aztec Stone Rainscreen Cladding
Sample description (as provided by sponsor) Stone slabs, mechanically fixed to aluminium t-sections using stainless steel stone clips, with anti-rattle strips and polymer adhesive

Product data (as provided by sponsor)

Generic type of product Natural Stone Rainscreen Cladding
Nominal thickness (mm) 20mm
Density of core (kg/m³) 2,478 (measured by laboratory)
Mass per unit area (kg/m²) 66.317 (calculated by laboratory)
Colour Marble grey
Test face N/A

Flame retardant added, or N/A
organic content limited
during production

Substrate and ventilation conditioned

Substrate N/A
Type of air gap N/A

2.4. Detailed product description

The product is configured as detailed below, front to back

Stone slabs	Type of product/layer	Stone
	Product/layer reference	Stone slabs
	Thickness	20mm
	Colour	Marble grey
	Construction form	Fixed to T-sections with air gap
T-sections	Type of product/layer	Aluminium T-sections
	Product/layer reference	T-sections
	Thickness	2mm
	Colour	Metallic
	Construction form	Fixing Stone slabs to substrate
Brackets	Type of product/layer	Aluminium brackets
	Product/layer reference	Brackets
	Thickness	3mm
	Colour	Metallic
	Construction form	Fixing T-sections to substrate
Stone clips	Type of product/layer	Stainless steel stone clips - powder coated
	Product/layer reference	Stone clips
	Thickness	2mm
	Colour	Black
	Construction form	Fixing stone slabs to T-sections
Neoprene	Type of product/layer	Aluminium brackets
	Product/layer reference	Neoprene anti-rattle strips
	Thickness	6mm
	Colour	Black
	Construction form	Anti-rattle strips positioned between stone slabs and T-sections

Adhesive	Type of product/layer	3C sealant multiuse All-in-One hybrid polyme
	Product/layer reference	Adhesive
	Thickness	1mm
	Colour	White
	Construction form	Fixing stone slabs and T-sections

3. Reports and results in support of this classification

3.1. Reports

Name of laboratory	Name of test sponsor	Test report No.	Test method/field of application
System Laboratories UK	Stone Cladding Systems Limited	122A	Physical measurements

3.2. Results

Standard/Decision	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance with class
				A1
96/603/EC	% of mass of fixings	1	0.0844%	<0.1% Compliant

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 and 96/603/EC.

4.2. Classification

The product Aztec Stone Rainscreen Cladding, in relation to reaction to fire behaviour is classified:

Fire behaviour	Smoke production	Flaming droplets
A1	s	d

Reaction to fire classification:	A1
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4.3. Field of application

This classification is valid for the following product and mounting and fixing parameters:

Thickness	minimum 20mm of stone
Colour	Any
Composition/build up	No variation allowed
Density of core	No variation allowed
Mass per unit area	Maximum 28g of adhesive and 40g of neoprene per m ²

5. Limitations

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

The laboratory has played no part in sampling of the product.

6. References

BS EN 13501-1:2018 - Fire classification of construction products and building elements

96/603/EC - COMMISSION DECISION establishing the list of products belonging to Classes A 'No contribution to fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC on construction products

-End of Report-