# 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

System Laboratories UK LTD
Unit 13
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| | |
|---|---|
| Report Number | 775 |
| Issue | A |
| Prepared for | James Taylor Ltd. |
| Date | 22/05/2024 |

| Issue | Date | Notes |
|---|---|---|
| A | 22/05/2024 | First issue |

## *Prepared by*

| | |
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| Name | Oliver Bauld |
| Position | Laboratory Technician |
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## *Authorised by*

| | |
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| Position | Laboratory Manager |
| Date | 22/05/2024 |
| Signature |  |

# Contents

# 1. Introduction

This classification report defines the classification assigned to The Barracuda Brick Slip Support System, in accordance with the procedures given in BS EN 13501-1: 2018.

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

| | |
|---|---|
| Sponsor: | James Taylor Ltd. |
| Prepared for: | James Taylor Ltd. |
| Place of manufacture: | 62 Barwell Business Park, Leatherhead Road, KT9 2NY, UK |
| CAB Number: | N/A |
| Classification report No.: | 775-A |
| Date of issue | 22/05/2024 |

# 2. Details of classified product

## 2.1. General

Classification according to BS EN 13501-1:2018 of The Barracuda Brick Slip Support System.

## 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 | James Taylor Ltd.<br>62 Barwell Business Park<br>Leatherhead Road<br>KT9 2NY<br>UK |
| Place of manufacture | As above |

| | |
|---|---|
| Trade name | The Barracuda Brick Slip Support System |
| Sample description (as provided by sponsor) | Brick slip support system |

**Product data (as provided by sponsor)**

| | |
|---|---|
| Generic type of product | Brick slip support system |
| Nominal thickness (mm) | 100 mm |
| Density of core (kg/m$^3$) | 7900 (Stainless Steel) & 2700 (Aluminium) |
| Mass per unit area (kg/m$^2$) | 8.788 |
| Colour | Metallic |
| Test face | N/A |

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

**Substrate and ventilation conditioned**

| | |
|---|---|
| Substrate | N/A |
| Type of air gap | Any |

## 2.4. Detailed product description

The product is configured as detailed below, front to back.

| | | |
|---|---|---|
| Horizontal Brick Slip Retention Rail | Type of product/layer | Horizontal Brick Slip Retention Rail |
| | Product/layer reference | Barracuda Stainless Steel 'Standard' Rail [R1] |
| | Thickness | 40 mm (Projecting leg dimension) |
| | Colour | Metallic |
| | Construction form | Riveted to Vertical Rails VL and VT |
| Horizontal Brick Slip Retention Rail | Type of product/layer | Horizontal Brick Slip Retention Rail |
| | Product/layer reference | Barracuda Stainless Steel 'Bottom' Rail [R2] |
| | Thickness | 30.75 mm (Projecting leg dimension) |
| | Colour | Metallic |
| | Construction form | Riveted to Vertical Rails VL and VT |
| Horizontal Brick Slip Retention Rail | Type of product/layer | Horizontal Brick Slip Retention Rail |
| | Product/layer reference | Barracuda Stainless Steel 'Top' Rail [R3] |
| | Thickness | 30.75 mm (Projecting leg dimension) |
| | Colour | Metallic |
| | Construction form | Screwed to Vertical Rails VL and VT |
| Vertical Substructure Rail | Type of product/layer | Vertical Substructure Rail |
| | Product/layer reference | Barracuda Extruded Aluminium Vertical Rail [VL] |
| | Thickness | 68mm [maximum projecting dimension] |
| | Colour | Metallic |
| | Construction form | Screwed to Helping Hand Brackets |
| Mineral Wool | Type of product/layer | Mineral wool |
| | Product/layer reference | Mineral wool |
| | Thickness | Any |
| | Colour | Green |
| | Construction form | Friction fit |

# 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 applicatior |
|---|---|---|---|
| System Laboratories UK | James Taylor Ltd. | 773A | BS EN ISO 1182:2020 |
| System Laboratories UK | James Taylor Ltd. | 774A | BS EN ISO 1716:2018 |

## 3.2. Results

| Standard/Decision | Parameter | Number of tests | Results | |
|---|---|---|---|---|
| | | | Continuous parameter mean | Compliance with class A1 |
| BS EN ISO 1716:2018 (a) Mineral Wool | MJ/kg | 3 | 0.573 MJ/kg | ≤ 2 MJ/kg |
| | | | | **Compliant** |
| BS EN ISO 1716:2018 (e) Product as whole | MJ/kg | 3 | 0.117 MJ/kg | ≤ 2 MJ/kg |
| | | | | **Compliant** |
| BS EN ISO 1182:2020 Mineral Wool | ΔT | 5 | 7.14 °C | ≤ 30 °C |
| | | | | **Compliant** |
| BS EN ISO 1182:2020 Mineral Wool | Δm | 5 | 2.23% | ≤ 50 % |
| | | | | **Compliant** |
| BS EN ISO 1182:2020 Mineral Wool | $t_f$ | 5 | No sustained flaming | No sustained flaming |
| | | | | **Compliant** |

Note:
Metals were not tested in accordance with BS EN ISO 1716:2018 clause 9.4.1 where all metals are deemed to have a calorific value of 0.

# 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 The Barracuda Brick Slip Support System, in relation to reaction to fire behaviour is classified:

| Fire behaviour | | Smoke production | | Flaming droplets |
|---|---|---|---|---|
| A1 | - s | - | , d | - |

**Reaction to fire classification: A1**

## 4.3. Field of application

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

| | |
|---|---|
| Thickness | Any |
| Colour | Metallic, Green (Mineral Wool) |
| Composition/build up | Mineral wool can be removed |
| Density of core | Any |
| Mass per unit area | Any |

# 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

BS EN ISO 1182:2020 - Reaction to fire tests for products — Non-combustibility test

BS EN ISO 1716:2018 – Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value)

**-End of Report-**