Report No.: 1369-E

# 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 | 1369 |
| Issue | E |
| Prepared for | MyDek Ltd. |
| Date | 27/10/2026 |

| Issue | Date | Notes |
|---|---|---|
| A | 13/02/2025 | First issue |
| B | 26/01/2026 | Update for additional profile and updated worst performing results |
| C | 24/04/2026 | Extension to all colours |
| D | 11/05/2026 | Updated extension of scope |
| E | 27/10/2026 | Correction to Calorific results |

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# Contents

1. Introduction 4
2. Details of classified product 5
   2.1. General 5
   2.2. Traceability 5
   2.3. Sample details 5
   2.4. Detailed product description 6
3. Reports and results in support of this classification 7
   3.1. Reports 7
   3.2. Results 8
4. Classification and field of application 9
   4.1. Reference of classification 9
   4.2. Classification 9
   4.3. Field of application 9
5. Limitations 9
6. References 10

# 1. Introduction

This classification report defines the classification assigned to Aspira Reversible Decking Board and Innova Decking/Soffit Board , 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: | MyDek Ltd. |
| Prepared for: | MyDek Ltd. |
| Place of manufacture: | The sponsor has requested to keep this confidential, however System Laboratories holds all the relevant data |
| CAB Number: | N/A |
| Classification report No.: | 1369-E |
| Date of issue | 27/10/2026 |

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# 2. Details of classified product

## 2.1. General

Classification according to BS EN 13501-1:2018 of Aspira Reversible Decking Board and Innova Decking/Soffit Board.

## 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 | MyDek Ltd.<br>11 Arkwright Road<br>Reading<br>RG2 0LU<br>UK |
| Place of manufacture | The sponsor has requested to keep this confidential, however System Laboratories holds all the relevant data |

| | |
|---|---|
| Trade name | Aspira Reversible Decking Board and Innova Decking/Soffit Board |
| Sample description (as provided by sponsor) | Powder coated Aspira aluminium decking 20 x 244mm reversible board mounted on 32mm BoxRail substrate |

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

| | |
|---|---|
| Generic type of product | Powder coated aluminium decking |
| Thickness | 20 mm - Nominal & 2 mm Aluminium Thickness / 140 microns - Max for PP |
| Density of core | 2710 kg/m$^3$ |
| Mass per unit area | 10.84 kg$^2$ - Aluminium (Calculated by laboratory) |
| Application rate of PPC | Maximum - 0.1923 kg/m$^2$ |
| Colour | Interpon D2525 Structura RAL 3004 (Red) |
| Test face | Either side |

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

**Substrate and ventilation conditioned**

| | |
|---|---|
| Substrate | No substrate tested |
| Air gap | 32 mm minimum |

## 2.4. Detailed product description

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

| | | |
|---|---|---|
| PPC | Type of product/layer | PPC |
| | Product/layer reference | PPC |
| | Thickness | 140 microns (maximum) |
| | Application rate | 0.1923 kg/m$^2$ (maximum) |
| | Colour | Interpon D2525 Structura RAL 3004 (Red) |
| | Construction form | PPC applied to 2 mm aluminium |
| Reversible Aluminium Boards | Type of product/layer | Reversible aluminium boards |
| | Product/layer reference | Reversible aluminium boards |
| | Thickness | 20 x 244 mm |
| | Colour | Metallic |
| | Construction form | Reversible aluminium boards |
| Proprietary BoxRail | Type of product/layer | Proprietary BoxRail |
| | Product/layer reference | Proprietary BoxRail |
| | Thickness | 32 mm minimum |
| | Colour | Metallic |
| | Construction form | BoxRail Frame |

# 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 | MyDek Ltd. | 1308-A | BS EN 13823:2020+A1:2022 |
| Warringtonfire | MyDek Ltd. | 530367 Version 1 | EN ISO 1716:2018 |
| System Laboratories UK | MyDek Ltd. | 1967-A | BS EN 13823:2020+A1:2022 |
| CSTB | AKZO NOBEL SAS | RA25-0066 | NF EN 13501-1:2018 |
| System Laboratories UK | MyDek Ltd. | 2177-A | BS EN 13823:2020+A1:2022 |

## 3.2. Results

| Test method | Parameter | Number of tests | Results | |
|---|---|---|---|---|
| | | | Continuous parameter mean | Compliance with class A2-s1,d0 |
| BS EN 13823:2020+A1:2022 | $FIGRA_{0.2}$ | 3 | 18.63 W/s | ≤ 120 W/s **Compliant** |
| BS EN 13823:2020+A1:2022 | $THR_{600}$ | 3 | 0.75 MJ | ≤ 7.5 MJ **Compliant** |
| BS EN 13823:2020+A1:2022 | LFS | 3 | No spread to edge | No spread to edge **Compliant** |
| BS EN 13823:2020+A1:2022 | SMOGRA | 3 | 4.44 $m^2/s^2$ | ≤ 30 $m^2/s^2$ **Compliant** |
| BS EN 13823:2020+A1:2022 | $TSP_{600}$ | 3 | 24.78 $m^2$ | ≤ 50 $m^2$ **Compliant** |
| BS EN 13823:2020+A1:2022 | Flaming Droplets | 3 | No flaming droplets | No flaming droplets **Compliant** |
| BS EN ISO 1716:2018 (b) | $MJ/m^2$ | 3 | 4.00 $MJ/m^2$ | ≤ 4 $MJ/m^2$ **Compliant** |
| BS EN ISO 1716:2018 (e) Product is a whole | MJ/kg | 3 | 0.7132 MJ/kg | ≤ 3 MJ/kg **Compliant** |

Note:
The aluminium was not tested in the EN ISO 1716:2018 due to clause 9.4.1 where 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 Aspira Reversible Decking Board and Innova Decking/Soffit Board, in relation to reaction to fire behaviour is classified:

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| Fire behaviour | | Smoke production | | Flaming droplets |
|---|---|---|---|---|
| A2 | - s | 1 | , d | 0 |

| Reaction to fire classification: | **A2-s1,d0** |
|---|---|

## 4.3. Field of application

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

| | |
|---|---|
| Thickness | Aluminium - No variation allowed<br>PPC - ≤ 120 microns |
| Colour | All colours |
| Density of core | No variation allowed |
| Mass per unit area | Aluminium - No variation allowed<br>PPC - ≤ 0.1923 kg/m$^2$ |
| Composition/build up | Aspira Reversible Decking Board and Innova Decking/Soffit Board |
| Substrate | No variation allowed |
| Air gap | Metallic frame with minimum gap of 32mm |

# 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 1716:2018 – Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value)
BS EN 13823:2020+A1:2022 - Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item

**-End of Report-**