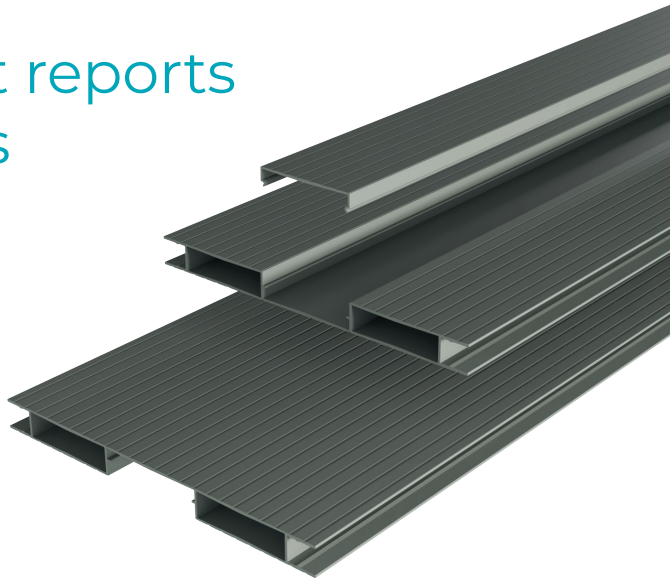
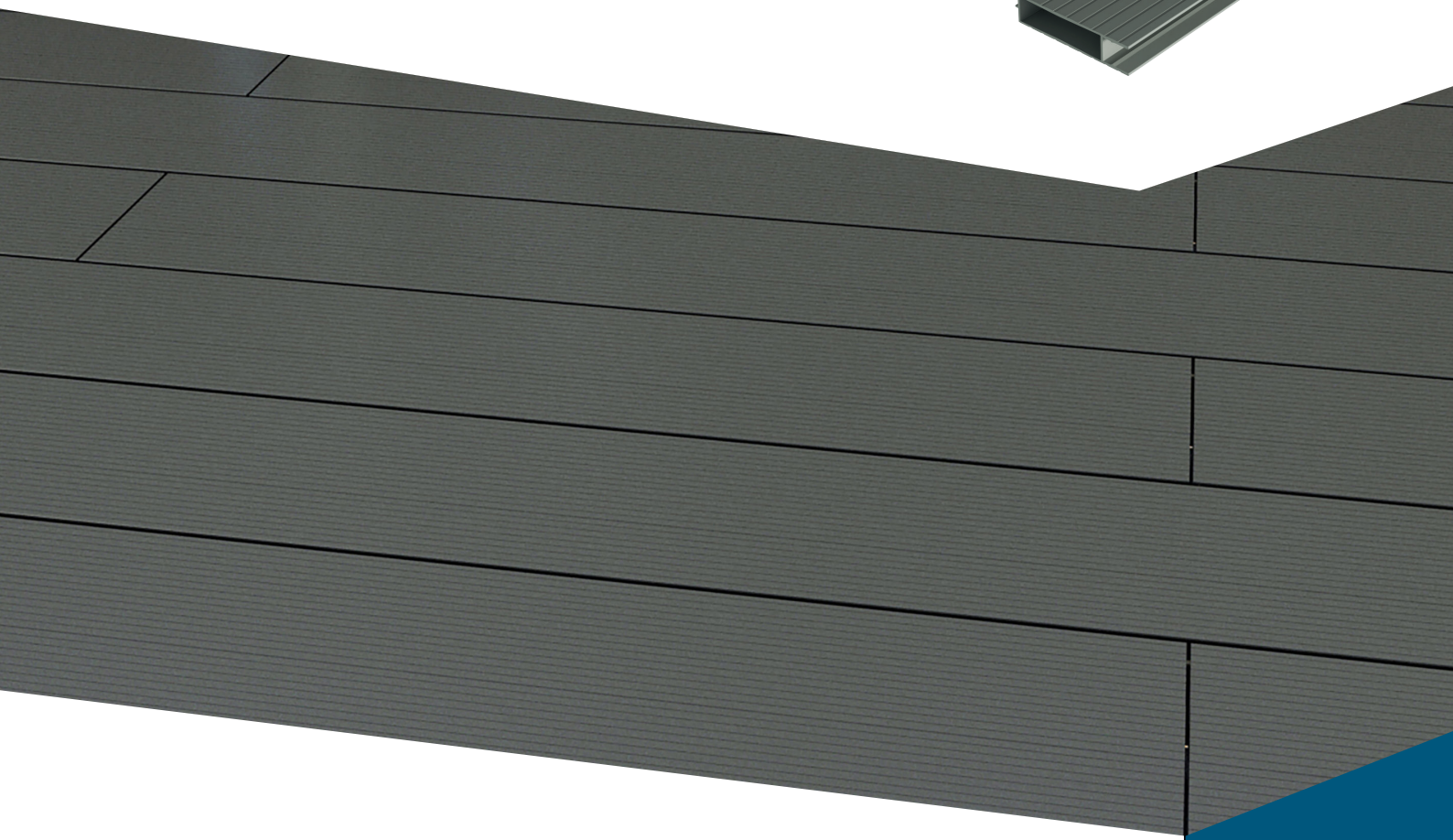
Aspira®

A REVERSIBLE, NON-COMBUSTIBLE, ALUMINIUM DECKING SYSTEM

Consolidated test reports and certifications

Edition: **One**
Date: **February2025**





MYDEK®
Non-combustible deck systems

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Non-combustible deck systems

Introduction

A reversible, non-combustible, aluminium decking system designed to enhance balconies and terraces, available in a range of standard finishes and compatible with the full range of support systems from MyDek for fast and accurate installation.

The reversible board is suitable for fixing onto steel or aluminium subframe, whilst the wider board format reduces the number of fixings required and speeds up installation.

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1.0 Reaction to Fire Classification Report

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

Report No.: 1369-A

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
Apex Park
Leighton Road
Leighton Buzzard
LU7 3RE
United Kingdom

Report Number	1369
Issue	A
Prepared for	MyDek Ltd.
Date	13/02/2025

Issue	Date	Notes
A	13/02/2025	First issue

SYSTEM
System Laboratories UK

Report No.: 1369-A

Prepared by

Name	Oliver Bauld
Position	Laboratory Technician
Signature	

Authorised by

Name	Asaf Gitarts
Position	Laboratory Manager
Date	13/02/2025
Signature	

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System Laboratories UK

Report No.: 1369-A

1. Introduction

This classification report defines the classification assigned to Aspira Reversible Decking 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:	11 Arkwright road, Reading, RG2 0LU, UK
CAB Number:	N/A
Classification report No.:	1369-A
Date of issue	13/02/2025

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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.

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. 11 Arkwright Road Reading RG2 0LU UK
Place of manufacture	As above

Trade name	Aspira Reversible Decking 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 Aspira aluminium decking
Thickness	20 mm - Nominal & 2 mm Aluminium Thickness / 140 microns - Max for PF
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	Proprietary BoxRail 32 mm
Air gap	32 mm

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 32 mm	Type of product/layer	Proprietary BoxRail 32 mm
	Product/layer reference	Proprietary BoxRail 32 mm
	Thickness	32 mm
	Colour	Metallic
	Construction form	BoxRail Substrate

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	MyDek Ltd.	1308-A	BS EN 13823:2020+A1:2022
Warringtonfire	MyDek Ltd.	530367 Version 1	EN ISO 1716:2018

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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	$FIGRA_{0.2/0.4}$	3	0 W/s	≤ 120 W/s **Compliant**
BS EN 13823:2020+A1:2022	THR_{600}	3	0.02 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	0 m^2/s^2	≤ 30 m^2/s^2 **Compliant**
BS EN 13823:2020+A1:2022	TSP_{600}	3	2.08 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	0.1923 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, 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 PPC - ≤ 140 microns
Colour	No variation allowed
Density of core	No variation allowed
Mass per unit area	Aluminium - No variation allowed PPC - ≤ 0.1923 kg/m^2
Composition/build up	No variation allowed
Substrate	No variation allowed
Air gap	No variation allowed

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-

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2.0 BS EN 13823:2020+A1:2022 Test Report

Reaction to fire tests for building products.
Building products excluding floorings exposed
to the thermal attack by a single burning item.

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System Laboratories UK

ilac-MRA UKAS TESTING 23841

BS EN 13823:2020+A1:2022 Test Report

Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.

Date	12/02/2025
Sponsor	MyDek Ltd.
Report No	1308
Issue	A

Disclaimer:
· The testing method was performed in accordance with the customer's specifications.
· This report is only valid in its entirety and no part may be used independently.
· Details for the parts being examined were provided by the customer.
· Results are only valid for the specific parts examined and for the date of examination.
· The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
· The accreditation symbol is only valid for the specific testing methods under accreditation.
· UKAS is not responsible for the results contained in this report.

Issue	Date	Notes
A	12/02/2025	First issue

The test was performed by System Laboratories UK Ltd.
Unit 13, Apex Park, Leighton Road, Leighton Buzzard, LU7 3RE, UK

egolf

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Report Number	1308-A

Purpose	To determine the fire performance of the following product when tested in accordance with BS EN 13823:2020.
Examination standard	BS EN 13823:2020+A1:2022
Examination procedure	System Laboratories UK procedure I200-04
Sponsor	MyDek Ltd.
Sponsor address	11 Arkwright road, Reading, RG2 0LU, UK
Manufacturer	MyDek Ltd.
Manufacturer's address	11 Arkwright road, Reading, RG2 0LU, UK
Project name	Aspira Reversible Decking Board
Testing location	Unit 13, Apex Park, Leighton Road, Leighton Buzzard, LU7 3RE, UK
Order number	1308
Project number	444
Testing date	12/02/2025
Report date	12/02/2025
Testing equipment	FTT SBI Assembly [35]
Sample description	See page 3
Examination results	See page 3
Deviations from testing standard	N/A

Written by

Oliver Bauld

Testing Technician

Approved by

Asaf Gitarts

Laboratory Manager

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Report Number	1308-A

Sample description (as provided by sponsor)	
Product name	Aspira Reversible Decking Board
Construction form	Aluminium decking board
Mass p. unit area	Sponsor could not provide this information
Sample density	Sponsor could not provide this information
Thickness	20 mm
Product ID	N/A
Sample ID	N/A
Sample description	Powder coated Aspira aluminium decking 20 x 244mm reversible board mounted on 32mm BoxRail substrate

Testing description	
Arrival date	13/01/2025
Conditioning	To BS EN 13238:2010 to constant mass
Sampling date	N/A
Sampling procedure	N/A
Test face	Front-Including cover strip insert Rear- omitting cover strip insert
Method of fixing	Mechanical fixing to Proprietary BoxRail 32mm
Substrate	Proprietary BoxRail 32mm
Type of joints	N/A
Flame retardant	N/A
Colour	Red
Method of mounting	5.2.2a) as per BS EN 13823:2020+A1:2022
Ventilation	Non-ventilated

Test results

Test Parameter	Units	Test Number			Average	Classification Parameter
		1	2	3		
FIGRA Threshold: 0.2 MJ	[W/s]	0.0	0.0	0.0	**0.00**	**A2/B**
FIGRA Threshold: 0.4 MJ	[W/s]	0.0	0.0	0.0	**0.00**	**N/A**
THR_{600}	[MJ]	0.1	0.0	0.0	**0.02**	**A2/B**
Lateral Flame Spread (LFS)	[Y or N]	No	No	No	**No**	**A2/B**
SMOGRA	[m^2/s^2]	0.0	0.0	0.0	**0.00**	**s1**
TSP_{600}	[m^2]	2.1	2.0	2.2	**2.08**	**s1**
Flaming Droplets ≤ 10s	[Y or N]	No	No	No	**No**	**d0**
Flaming Droplets > 10s	[Y or N]	No	No	No	**No**	**d0**
Pre-test temperature (°c)		**11.3**	**10.5**	**11.3**		
Post-test temperature (°c)		**11.3**	**10.8**	**11.8**		
Humidity (%RH)		**53**	**55**	**53**		
Ambient pressure (kPa)		**100.695**	**100.737**	**100.713**		

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Report Number	1308-A

Observations during test

Test 1	
Time	Observation
0s	Start of data recording
120s	Ignition of Auxiliary Burner
300s	Ignition of main burner

Test 2	
Time	Observation
0s	Start of data recording
120s	Ignition of Auxiliary Burner
300s	Ignition of main burner

Test 3	
Time	Observation
0s	Start of data recording
120s	Ignition of Auxiliary Burner
300s	Ignition of main burner

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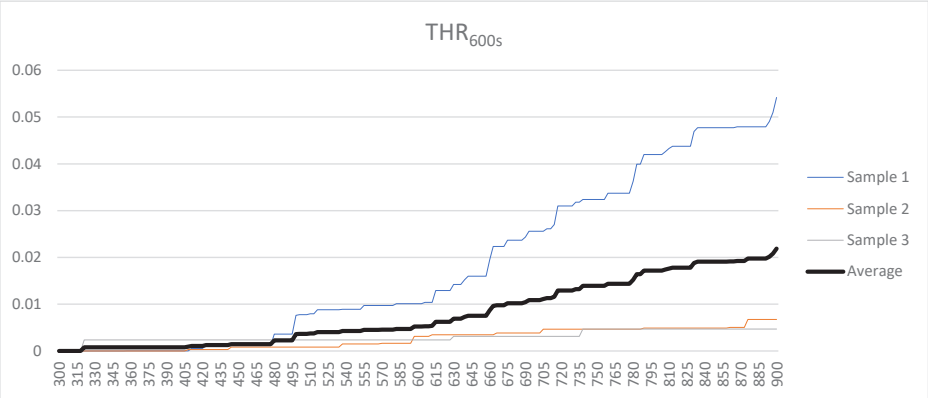
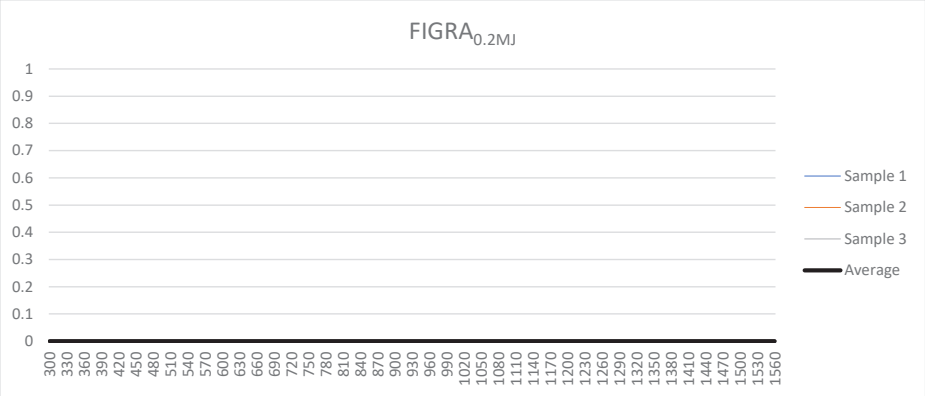
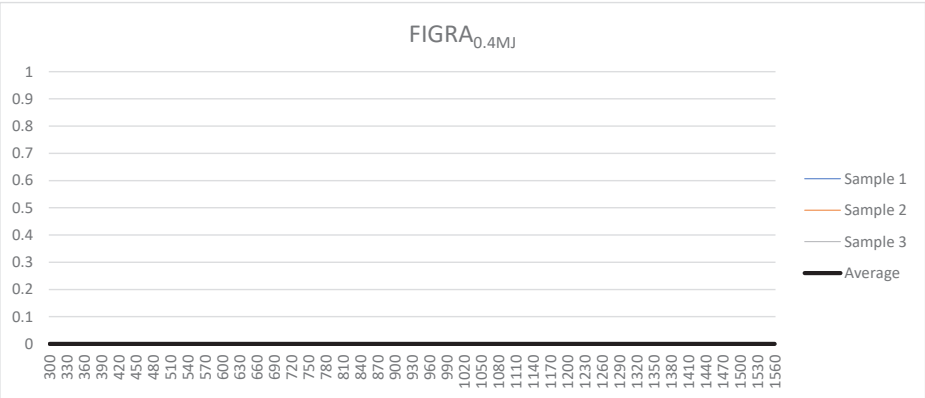
Report Number	1308-A

Graphs







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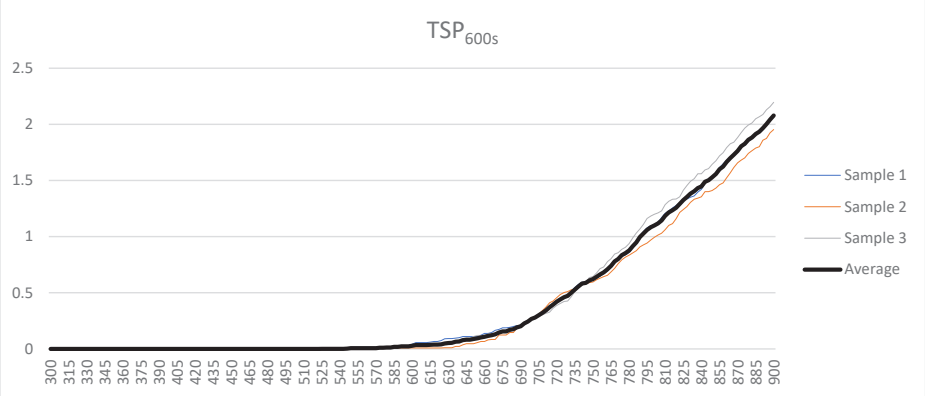
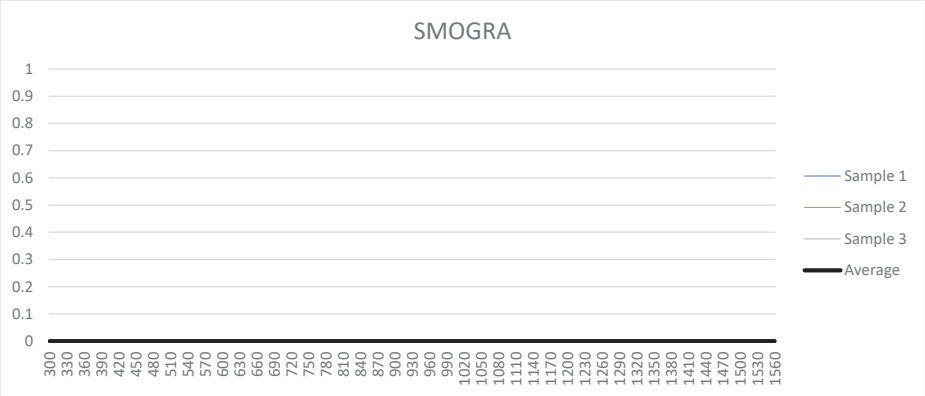
Graphs





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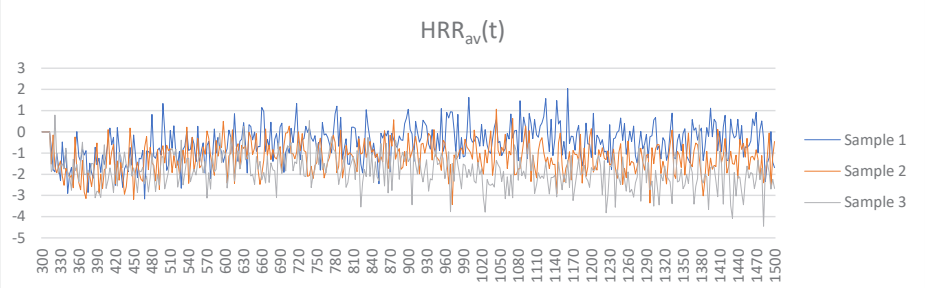

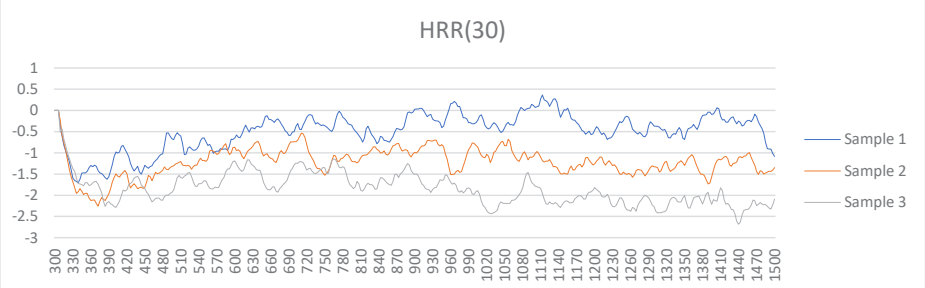

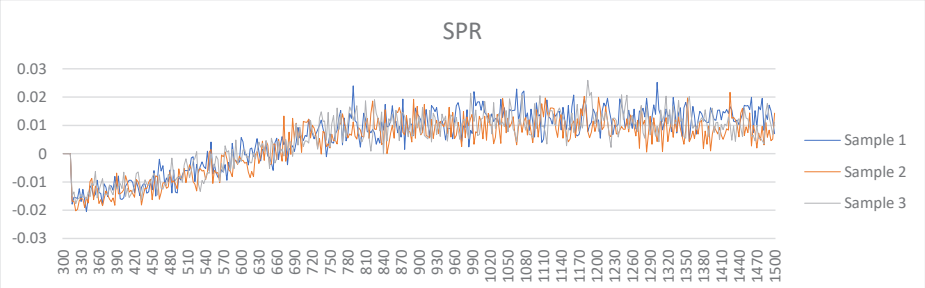

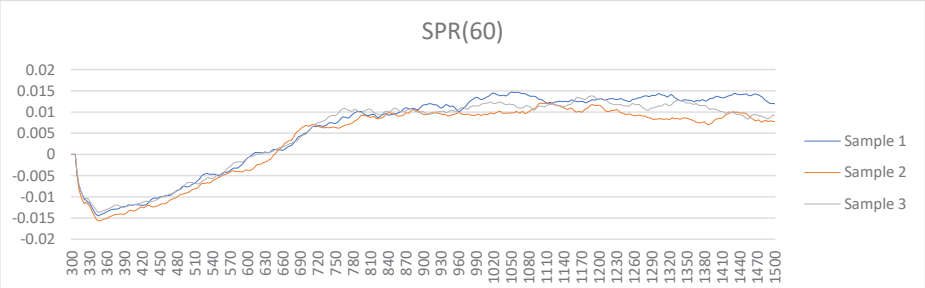

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Report Number	1308-A

Photographs - Sample 1

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Report Number **1308-A**

Photographs - Sample 2

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Photographs - Sample 3

-End of Report-

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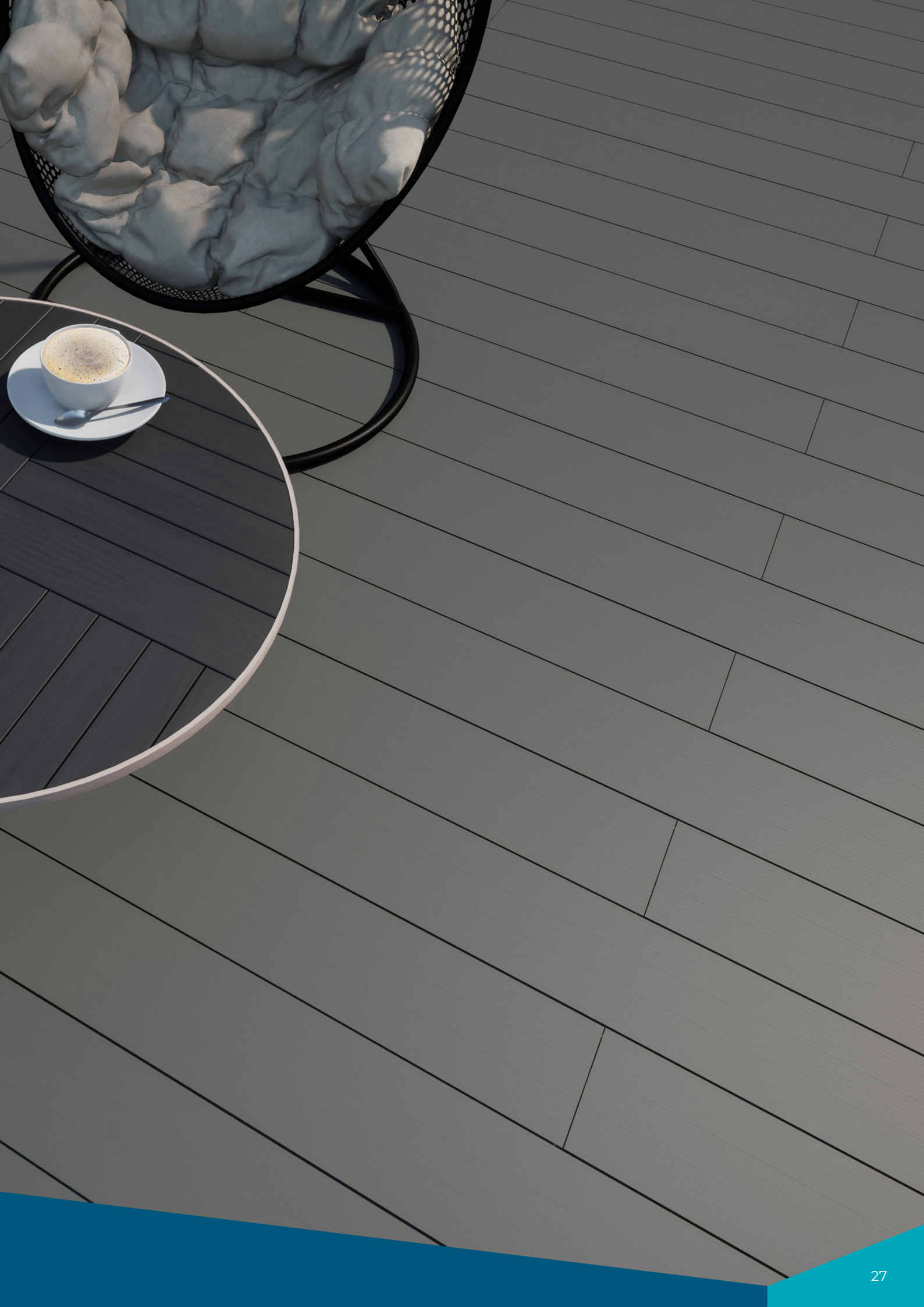

About MyDek®

The **MyDek** team harnesses a huge range of experience, creativity, passion and drive to make balconies and terraces safe places to be. Drawn from different areas of the construction industry our team brings together extensive knowledge of specification, technical compliance and outstanding innovation to create a non-combustible decking system that delivers on our mantra of Safe. Smart. Sustainable. **So relax, you're in safe hands.**

Safe. Smart. Sustainable.

Our ethos runs through everything we do. We're passionate to ensure that our products reflect these values and make a significant contribution to residential balconies and terraces as safe and enjoyable places.

The philosophy that supports all our products

Safe.

- Class A2 non-combustible aluminium deck board
- Excellent slip resistance
- Durable alloy won't rust or rot
- 30 year warranty

Smart.

- Attractive board design in range of colours
- Reversible board suitable for fixing into steel or aluminium subframe
- Wider board format reduces number of fixings required and speeds up installation

Sustainable.

- Aluminium decking can be recycled at end of life and repurposed for further use.
- Low maintenance material gives 60 year service life.

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Non-combustible deck systems

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