

BRE Global Classification Report

Classification of reaction to fire performance in accordance with EN 13501-1: 2018 on AirDeck woven polypropylene outer cover

Prepared for: Sayfa Systems UK Limited

Date: 08 July 2019

Report Number: Q100870-1000 Issue 1

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Date 02 July 2019

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1 Introduction

This classification report defines the classification assigned to 'AirDeck woven polypropylene outer cover' in accordance with the procedures given in EN 13501-1:2018¹.

BRE Global

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

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Prepared for:	Sayfa Systems UK Limited, Jubilee House, No. 3 Gelders Hall Road, Shepshed, Loughborough, Leicestershire, LE12 9NH, UK
Place of Manufacture:	This commercially sensitive information was withdrawn from the test report at the request of the test sponsor
Prepared by:	BRE Global, Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX, UK
Notified Body No.:	0832
Product name:	AirDeck woven polypropylene outer cover
Classification report No.:	Q100870-1000
Issue number:	One
Date of issue:	08 July 2019

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2 Details of classified product

2.1 General

The product, 'AirDeck woven polypropylene outer cover', is defined by the test sponsor as a woven polypropylene sheet.

2.2 Product description

The product, 'AirDeck woven polypropylene outer cover', 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.

2.2.2 Sample details

Unless otherwise stated all measurements are nominal.

Parameter	Details
Test sponsor	Sayfa Systems UK Limited Jubilee House No. 3 Gelders Hall Road Shepshed Loughborough Leicestershire LE12 9NH UK
Manufacturer of sample	Sayfa Systems UK Limited Jubilee House No. 3 Gelders Hall Road Shepshed Loughborough Leicestershire LE12 9NH UK
Place of manufacture	Note 1
Trade name	AirDeck woven polypropylene outer cover
Sample reference	AirDeck woven polypropylene outer cover
Sample description (as provided by test sponsor/manufacturer)	Outer cover of AirDeck fall arrest cushion. Woven polypropylene.
Description of sample (as received)	A plain woven yellow sheet constructed from a polymeric-type material. See Appendix A.
Test sponsor's product data	
Generic type of product	Woven polypropylene sheet
Nominal thickness (mm)	0.15 (150 micron)



Parameter	Details
Nominal density (kg/m ³)	Note 2
Nominal mass per unit area (g/m ²)	160
Colour	Yellow
Flame retardant treatment added or organic content limited during production (yes/no)	Note 2
European product standard, if applicable	Note 2
Adhesive	
Generic type of product	Not applicable
Substrate and ventilation conditions	
Generic type of substrate	None
Position of air gap	Not applicable
Measured sample data	
Mean sample thickness (mm)	Batch 1: 0.30 (range 0.29 - 0.31) Batch 2: 0.29 (range 0.26 – 0.31)
Mean sample density (kg/m ³)	Batch 1: 532.51 (range 504.19 - 549.36) Batch 2: 571.16 (range 528.75 - 618.62)
Mean sample mass per unit area (g/m ²)	Batch 1: 161.4 (range 156.3 - 164.8) Batch 2: 162.2 (range 159.6 - 170.2)
Test information	
Face to be tested	Interior face
Orientation aspects	Symmetrical
Test sponsor's sampling identification	Note 2
BRE Global sample number	E10145, E11834
Additional information	PO-0007628

Note 1: This commercially sensitive information was withdrawn from the test report at the request of the test sponsor.

Note 2: This information was not supplied by the test sponsor

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	Sayfa Systems UK Limited	P109332-1000 Issue 2	EN ISO 11925-2 ²



3.2 Results

Test method & test number	Parameter	No. test runs	Results	
			Continuous parameter - mean (m)	Compliance with parameters Criterion / Compliance status E
EN ISO 11925-2 30 s Surface (lengthways)	F _s Flaming droplets/particles	6	Not observed Not observed	≤ 150 mm within 60s / Compliant No ignition of paper / Compliant
EN ISO 11925-2 30 s Edge (lengthways)	F _s Flaming droplets/particles	6	Not observed Not observed	≤ 150 mm within 60s / Compliant No ignition of paper / Compliant
EN ISO 11925-2 30 s Surface (crossways)	F _s Flaming droplets/particles	3	Not observed Not observed	≤ 150 mm within 60s / Compliant No ignition of paper / Compliant
EN ISO 11925-2 30 s Edge (crossways)	F _s Flaming droplets/particles	3	Not observed Not observed	≤ 150 mm within 60s / Compliant No ignition of paper / Compliant

4 Classification and field of application

4.1 Reference of classification

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

4.2 Classification

The product, 'AirDeck woven polypropylene outer cover', in relation to reaction to fire behaviour is classified:

E

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	
E	-	s	-	,	d	-

i.e. E

Reaction to fire classification: E



4.3 Field of application

This classification is valid for:

- i) Woven polypropylene sheet

And the following product and mounting and fixing parameters:

Colour	Yellow. No variation in colour allowed.
Composition, build-up and ordering of the layers	As tested. No variation in composition, build-up or ordering of the layers allowed.
Weave	As tested. No variation in weave allowed.
Nominal thickness	150 microns. No variation in thickness allowed.
Nominal mass per unit area	160 g/m ² . No variation in mass per unit area allowed.
Product orientation and geometry	Valid in all orientations
Joints and exposed edges	Valid for exposed joints and edges

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.

6 References

1. EN 13501-1: 2018. Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests. CEN, Rue de la Science 23, B-1040 Brussels. 2018.
2. EN ISO 1716: 2010. Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value) (ISO 1716:2010). CEN, Avenue Marnix 17, B-1000 Brussels. 2010.



Appendix A Pre-test photographs

