Jigsaw
RUBBER MATTING

PRODUCT TEST DOCUMENTATION

COBAGRIP Fire Test EN13501 1 2018 al3s8z

Supplied by Jigsaw Rubber Matting, a trading name of Jigsaw Industrial Ltd.

The original manufacturer or independent laboratory report follows in full. Its issuer, applicant, test results and original references have been retained. Jigsaw Rubber Matting is the retailer, not the testing body.

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TECHNICAL REPORT

COBA Europe Ltd Europark Industrial Estate A5 Watling Street Rugby Leicestershire CV23 0AL United Kingdom	SATRA reference:	FLO2006125	
		2428	3
	Report ID/Issue number:	42943/1	
	Your reference:	50949	
	Date samples received:	03/07/2024	
	Date(s) work carried out:	03/07/2024 to 08/08/2024	
	Date of report:	15/08/2024	

Testing Requirements

Classification of one product described by the customer as "GRP Grating 25mm" to EN 13501-1:2018.

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Report Signed by:

Philip Weal

Report Signatory

TESTING OF ONE PRODUCT, DESCRIBED BY THE CUSTOMER AS 'GRP GRATING ' TO EN 13501-1:2018. (L/NCS)

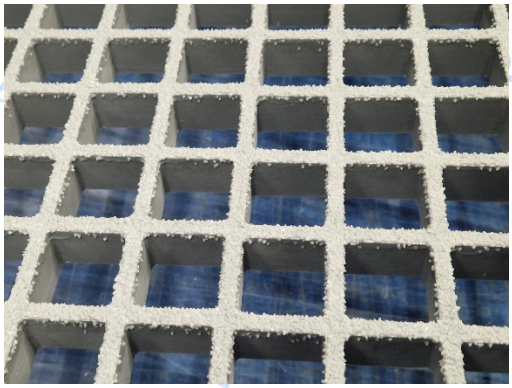
As requested by Coba Europe Ltd, SATRA have assessed the floor covering submitted to determine its fire classification in accordance with the procedures given in EN 13501-1:2018, as detailed below.

CONCLUSION

With regard to the properties assessed, the product 'GRP Grating' demonstrates compliance with the requirements for reaction to fire classification: **B_{fl} - s1** in accordance with EN 13501-1:2018 based on testing conducted in accordance with EN ISO 9239-1:2010 and EN ISO 11925-2:2020. See below report for details of relevant fields of application.

DETAILS OF CLASSIFIED PRODUCT:

The product, 'GRP Grating', is defined as a grating panel, and is described in full overleaf.
Appearance:



Date received:	03 July 2024
Date conditioning commenced:	03 July 2024
Testing conducted:	29 July and 05, 08 August 2024
Testing conducted by:	Phil Weal and Dusan Pekarovic

TESTS CARRIED OUT

- EN ISO 9239-1:2010. Reaction to fire tests for floorings. Part 1: Determination of the burning behaviour using a radiant heat source. (L/NCS) (2)
- EN ISO 11925-2:2020. Reaction to fire tests – Ignitability of products subject to direct impingement of flame. Part 2 – Single-flame source test. (L/NCS) (2)

Notes:

(1) Information supplied by the customer. Not verified by SATRA.
(2) Results have been assessed against EN 13501-1:2018 Clause 12.

FULL DESCRIPTION OF TEST SPECIMENS (1)

The description of the specimen given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

General description of flooring system			GRP Slip Resistant Grating
Product reference of flooring system			COBAGRIP Grating
Colour reference			**Yellow, Green or Grey**
Name of Manufacturer			COBA Europe Ltd.
Overall weight per unit area			25mm = 13kg/m2 50mm = 21kg/m2
Overall Thickness			25mm & 50mm
Product Configuration			
Floor covering	GRP coating	Product Reference	Quartz-Grit
		Generic Type	Note 1
		Name of Manufacturer	Suzhou Haixing Plastic Chemical Co.,Ltd
		% Composition	**4.5**
		Application Rate	Top Surface 100%
		Application method	Applied by hand
		Weight per unit area	1KG/SQM
		Thickness	1mm
		Trade name of flame retardant	HR-15
		Generic form of flame retardant	Liquid
		Amount of flame retardant	0.7%
	Core material	Product Reference	Polyester Resin
		Generic Type	Liquid
		Name of Manufacturer	Shanghai New Tianhe Resin CO.LTD
		% Composition	**95.5**
		Application Rate	Note 1
		Application method	Note 1
		Weight per unit area	25mm – 12kg/m2 50mm – 20kg/m2
		Thickness	25mm or 50m
		Trade name of flame retardant	Suzhou Haixing Plastic Chemical Co.,Ltd
		Generic form of flame retardant	Liquid
		Amount of flame retardant	0.7%
Brief Description of the manufacturing process			Note 1

LABORATORY SUPPLIED SUBSTRATE;

Adhesive	Product Reference	N/A
	Generic Type	N/A
	Name of Manufacturer	N/A
	Density (20ºC)	N/A
	Colour	N/A
Substrate	Product reference	'Cembrit HD'
	Generic type	Fibre cement board
	Name of supplier	Clarkes of Walsham Ltd
	Thickness	8 ± 2mm
	Density	1800 ± 200 kg/m³

Note 1: The sponsor of the test has failed to provide the information
Note 2: The sponsor has provided the required information but at the request of the sponsor it has been omitted from the final report.
Note 3: The sponsor was unwilling to provide the required information.

EVIDENCE IN SUPPORT OF CLASSIFICATION

Test reports and extended application reports relating to this classification.

Testing Laboratory	Name of Sponsor	Test report / extended application report reference	Test method / extended application rules.
SATRA Technology Centre Ltd	Coba Europe Ltd	FLO2006125 2428 2 & 4	EN ISO 9239-1:2010
SATRA Technology Centre Ltd	Coba Europe Ltd	FLO2006125 2428 1	EN ISO 11925-2:2020

Test results relating to the test reports above.

Test method	Parameter	No. of tests	Results	Compliance with **B_{fl}-s1** parameters
EN ISO 9239-1 [a]	Critical flux [b] (kW/m²)	3	(*m'*) [d]: 10.41	**Compliant**
	Smoke production [c] (%.min)		mean: 99.13	**Compliant**
EN ISO 11925-2 [e]	F_S (mm)	6	Max : 30	**Compliant**

[a] Test duration = 30 minutes.
[b] Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame
[c] **s1** = Smoke production ≤ 750 %.min; **s2** = not s1.
[d] The reported mean for a continuous parameter lies within the limits of the envisaged class, and is therefore reported as *m'*.
[e] Under conditions of surface flame attack with 15s exposure time.

CLASSIFICATION

The product, 'GRP Grating' in relation to its reaction to fire behaviour is classified: **B_{fl}**
The additional classification in relation to smoke production is: **s1**.

The format of the reaction to fire classification for floorings is:

Fire behaviour		**Smoke production**	
A1fl to **Ffl** (as applicable)	**-**	**s**	**1** or **2** (as applicable)

Reaction to fire classification: **B_{fl} - s1**

FIELD OF APPLICATION

As the product was tested loose laid (L) over the standard non-combustible substrate (NCS) as specified in EN 13238:2010, this classification is valid for the following end use applications, providing the end use substrate density is at least 75% of the nominal value of the density of the standard substrate :

- Flooring applications utilizing end use substrates of classes A1 and A2-s1,d0 are represented by testing over a fibre cement board (non – combustible substrate).
- Installed with or without adhesive The reaction to fire classification may be valid for products within the same family, where family is defined as a range of products within defined limits of variability of its parameters, e.g. thickness, density, end use application, for which the reaction to fire classification is proven to be unchanged, or for which the field of application is extended in an extended application report.

LIMITATIONS

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

RELATIONSHIP BETWEEN CLASSES AND REFERENCE FIRE SITUATIONS

For information only, as discussed in Annex A of EN 13501-1:2018 the relationship between classes and reference fire situations for floorings is as follows:

Class F_{fl}: Products which cannot be classified in one of the classes $A1_{fl}$, $A2_{fl,}$ B_{fl}, C_{fl}, D_{fl}, E_{fl}.

Class E_{fl}: Products capable of resisting a small flame.

Class D_{fl}: Products satisfying E_{fl} and in addition capable of resisting, for a certain period, a heat flux attack.

Class C_{fl}: As class D_{fl} but satisfying more stringent requirements.

Class B_{fl}: As class C_{fl} but satisfying more stringent requirements.

Class $A2_{fl}$: Satisfying the same requirements as class B_{fl} relating to heat flux. In addition under the conditions of a fully developed fire these products will not significantly contribute to the fire load and fire growth.

Class $A1_{fl}$: Class $A1_{fl}$ products will not contribute in any stage of the fire, including the fully developed fire. For that reason they are assumed to be capable of satisfying automatically all requirements of all lower classes.

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Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

SATRA's guidelines provide recommendations that are based upon SATRA's knowledge and experience. The guidelines are intended to indicate conformance by providing information on the likely performance or characteristics of a property. As such, uncertainty of measurement is not applied when evaluating results against guideline recommendations.