



SATRA Technology Centre Ltd
 Wyndham Way, Telford Way, Kettering,
 Northamptonshire, NN16 8SD United Kingdom
 Tel: +44 (0) 1536 410000
 email: info@satra.com
www.satra.com



TECHNICAL REPORT

COBA Europe Ltd Europark Industrial Estate A5 Watling Street Rugby Leicestershire CV23 0AL United Kingdom	SATRA reference:	FLO2006125	
		2428	1
	Report ID/Issue number:	42941/1	
	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

Testing of one product described by the customer as "GRP Grating 25mm"
 to EN 11925-2:2020.

For SATRA's full terms and conditions see our website: <https://new.satra.com/satra-terms-and-conditions/>

For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

Report Signed by:

Philip Weal


 Report Signatory

TESTING OF ONE PRODUCT, DESCRIBED BY THE CUSTOMER AS 'GRP GRATING 25MM' TO EN ISO 11925-2:2020 (L/NCS)

As requested by Coba Europe Ltd, SATRA have assessed the floor covering submitted to determine its ignitability when subjected to direct flame impingement using a single flame source at the surface of the sample for 15 seconds, as detailed below.

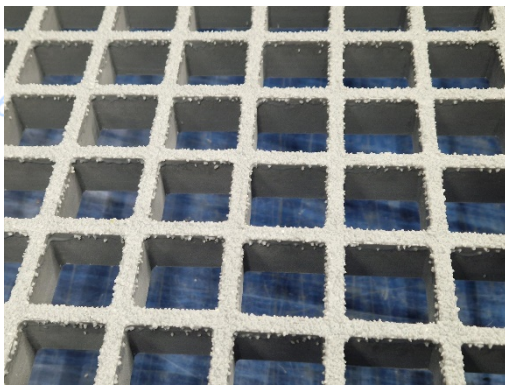
CONCLUSION

With regard to the properties assessed, the sample submitted under the reference 'GRP Grating 25mm' has demonstrated no ignition of the floor covering, the flame did not reach the critical distance of 150mm, and there was no ignition of the filter paper, which would be caused by flaming droplets. The sample was tested non-directional.

SAMPLE SUBMITTED

Sample reference: 'GRP Grating 25mm' ⁽¹⁾

Appearance:



Date received: 03 July 2024 ⁽²⁾
 Date conditioning commenced: 03 July 2024 ⁽³⁾
 Testing conducted: 08 August 2024
 Testing conducted by: Reece Johnson

TESTS CARRIED OUT

- 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) The specimens were provided to SATRA by the customer. SATRA were not involved in the selection or sampling procedure.
- (3) Prior to testing, the specimens were conditioned at $(23 \pm 2) ^\circ\text{C}$, $(50 \pm 5) \% \text{RH}$, until constant mass was achieved, or for a fixed period of time as defined in EN 13238:2010.

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/m ²	
Overall Thickness		25mm	
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/m ²
		Thickness	25mm
		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 (20°C)	N/A
	Colour	N/A
Substrate	Product reference	'Cembrit HD'
	Generic type	Fibre cement board
	Name of supplier	Clarks of Walsham Ltd
	Thickness	(8 ± 2) mm
	Density	(1800 ± 200) kg/m ³

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.

RESULTS

Sample reference	Test method	Property	Results
'GRP Grating 25mm'	EN ISO 11925-2: 2020	Ignition of floor covering surface	NO
		Flame spread to 150mm and minimum time taken.	NO
		Flaming droplets causing ignition of filter paper	NO
		Observations	Charring etc.

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimens which were tested. Test results using a standard substrate complying with EN 13238 Clause 5.2.2 or Clause 5.2.3 are applicable if the density of the end use substrate is at least 75% of the nominal density of the standard substrate.

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the test report.

TEST DETAILS**Purpose of test**

To determine the performance of specimens of a product when they are subjected to the conditions of the test procedure defined in the document EN ISO 11925-2.

The test was performed in accordance with the procedure specified in EN ISO 11925-2:2020 and this report should be read in conjunction with that standard.

Scope of test

EN ISO 11925-2 specifies a method of test for determining the ignitability of building products by direct small flame impingement under zero impressed irradiance using specimens tested in a vertical orientation.

Number of specimens tested

In accordance with EN ISO 11925-2, three specimens in each direction were tested. Where applicable the results relate to the worst performing specimen.

Exposure conditions

As required for the testing of floorcoverings in accordance with EN 13501-1 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests, the samples were subjected to a flame exposure time of 15 seconds, using the surface exposure conditions defined in EN ISO 11925.

Adhesive

The specimen was tested loose-laid (L) to the substrate.

Substrate

Non-combustible substrate (NCS) - End use substrates of classes A1 and A2-s1,d0, are represented by fibre cement board (in accordance with ISO 390)

TABLE 1 – FULL TEST RESULTS - INDIVIDUAL SPECIMEN RESULTS FOR SPECIMEN REFERENCED ‘GRP GRATING 25MM’

Test flame application position – Surface of sample referenced as ‘GRP Grating 25mm’ – Non-directional.

Specimen No.	Ignition YES/NO	Time from start of test for flame to reach 150mm (seconds)	Extent of flame spread (mm)	Flaming debris	Glowing	Extent of Damaged Area (mm)	
						Height	Width
1	No	N/A	25	No	No	25	13
2	No	N/A	30	No	No	30	14
3	No	N/A	30	No	No	30	14

OBSERVATIONS

Specimen did not ignite.

Conditions of Use

Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties if they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Accreditation

Where the UKAS logo is included on the test report then tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. Where no UKAS logo is included on the test report then none of the tests reported are covered by SATRA's UKAS Accreditation.

Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Opinions and interpretations fall outside the UKAS Accreditation for SATRA.

Uncertainty of Measurement and Decision Rules

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.
