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TECHNICAL REPORT

AM. FLO42>	SATRA reference:	FLO4272K1M6
TING SKIME	MATLID	2340
DURAMAT LTD	Report ID/Issue number:	33934/1
Unit 6, Causeway End Manningtree	Your reference:	
CO11 2LH United Kingdom	Date samples received:	04/09/2023
2K1M6	Date(s) work carried out:	04/09/2023 to 16/10/2023
	Date of report:	08/11/2023

Testing Requirements

Classification of one product described by the customer as "Rubber Floor Tile" to EN 13501-1:2018 (L/NCS).

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Report Signed by:

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FLO4272K1M6

Reece Johnson

DURAMATLID

DURAMATLID

P.J.M.S./ Report Signatory







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

As requested by Duramat 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 'Rubber Floor Tile' demonstrates compliance with the requirements for reaction to fire classification: E_{fl} – s2 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, 'Rubber Floor Tile', is defined as resilient flooring, and is described in full overleaf. Appearance:



04 September 2023 Date received: 05 October 2023 Date conditioning commenced:

13 and 16 October 2023 Testing conducted:

Testing conducted by: **Dusan Pekarovic**

TESTS CARRIED OUT

- DURAMATLID 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.
- (3) Product was considered to be non-directional and hence only 3 tests for both EN ISO 9239-1:2010 and EN ISO 11925-2:2020 were conducted. DURAMATLID

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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.

			/) / .		
	Gen	eral description	n of flooring system	RUBBER FLOORING TILE	(0)
7	Prod	uct reference	of flooring system	RUBBER FLOOR TILE	45>2
	Colo	ur reference	1M6	BLACK	T,
	Nam	e of Manufact	urer	BIG MATS LTD	
	Over	all weight per	unit area	4.5KG	
	Over	all Thickness		17MM	
	Prod	uct Configurat	tion $\mathcal{O}_{I/R}$	Dr. S.	
		42>2	Product Reference	RUBBER FLOOR TILE	<
	_	< T710	Generic Type	INTERLOCKING MAT	
	covering	146	Name of Manufacturer	BIG MATS LTD	V6
	Ver		% Composition	100% RECYCLED RUBBER	
	8	Layer 1	Weight per unit area	4.5KG	
	o		Thickness	17MM	
	Floor	DUD	Trade name of flame retardant	N/A), .
)	201	12	Generic form of flame retardant	N/A Y	URAN.
	T7/	10	Amount of flame retardant	N/A R	MAT
	Brief	Description of	f the manufacturing process	Note 1	

LABORATORY SUPPLIED SUBSTRATE:

TAMA	Product Reference	N/A
147/7	Generic Type	N/A R
Adhesive	Name of Manufacturer	N/AO
	Density (20°C)	N/A
	Colour	N/A
	Product reference	'Cembrit HD'
70	Generic type	Fibre cement board
Substrate	Name of supplier	Clarkes of Walsham Ltd
1/17	Thickness	8 ± 2mm
	Density	1800 ± 200 kg/m³
	[₹] (0	Adhesive Reneric Type Name of Manufacturer Density (20°C) Colour Product reference Generic type Name of supplier Thickness

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 FLO4272K1M6 been omitted from the tinal report.

Note 3: The sponsor was unwilling to provide the required information. been omitted from the final report.

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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	Duramat Ltd	FLO4272K1M6 2340 1	EN ISO 9239-1:2010
Technology Centre			
Ltd			
SATRA	Duramat Ltd	FLO4272K1M6 2340 2	EN ISO 11925-2:2020
Technology Centre	OUR,	Due OUP.	40
Ltd	Ms.	42>2, AV	42>

Test results relating to the test reports above.

Test method	Parameter	No. of tests	Results	Compliance with E_{fl}-s2 parameters
OURA	FLOS		UR	RO.
EN ISO 9239-1 a	Critical flux ^b (kW/m²)	3 (3)	(<i>m</i> ') d: 2.8	Compliant
70	Smoke production ^c (%.min)	6	mean: 1731.14	Compliant
EN ISO 11925-2 e	F _s (mm)	3 (3)	Max : 55	Compliant

^a Test duration = 30 minutes.

CLASSIFICATION

The product, 'Rubber Floor Tile' in relation to its reaction to fire behaviour is classified: E_{fl} The additional classification in relation to smoke production is: s2.

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: $E_{fl} - s2$

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^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

[°] **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.







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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_{fi}: Products satisfying E_{fi} and in addition capable of resisting, for a certain period, a

heat flux attack.

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

Class B_f: As class C_f 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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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.

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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.

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.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.