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notified body number 0321



Customer: Ecotile LLP SATRA Ref: FLO0188472/1039/14

Unit 15 North Luton Industrial Estate

Sedgwick Road

Luton

Bedfordshire

LU4 9DT

Report Date: 31st March 2011

Samples received: 28 September 2010

Contact: Michael Ollivere

TECHNICAL SERVICES REPORT

Subject: Assessment of a range of interlocking tiles in accordance with EN 14041:

2004 Incorporating corrigendua No. 1 and 2

Your reference:

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

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

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

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.

Report signed by: Jacqueline Glasspool
Position: Department Head
Department: Furniture & Flooring

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ASSESSMENT OF A RANGE OF INTERLOCKING TILES IN ACCORDANCE WITH EN 14041: 2004 INCORPORATING CORRIGENDA NO. 1 AND 2

As requested by Ecotile LLP, we have conducted an assessment of the samples of material as detailed below with respect to the requirements of EN 14041: 2004 Incorporating corrigenda No. 1 and 2.

SAMPLE SUBMITTED

Sample reference: Raised Disk, Smooth textured and Durbar floor tiles with open or hidden joints

See annex 1.0 for family details.

Description: PVC Homogeneous flooring

Colour: Yellow, Selfridges, Stone, White, Grey, Anthracite, Black, Blue, French Blue,

Terracotta, Pink, Red, Lime Green, Lilac and Orange.

Intended application: Contract / Commercial use Date received: 28th September 2010

REQUIREMENTS & RESULTS

Clause 4 Requirements

Clause	Requirement	Result
Clause 4.1 Reaction to fire		
4.1.1 Specimen preparation and conditioning	Specimens prepared and conditioned as requby EN ISO 11925, EN 9239:2010 and as per ISO 13501: 2007	
4.1.2 Application rules	the second of the second of	
4.1.3 Durability aspects	Applicable to textile products	Not applicable
4.1.4 classification	If a claim for reaction to fire performance is made, the floor covering (except as provided below) shall be tested and classified according the requirements for EN 13501 part 1: 2002 the resulting class and sub class (as appropriate to the class itself) shall be declared.	d SATRA Report FLO 0188056/1037/3.
Clause 4.2 Content of pentachlorophenol (PCP)	Resilient, textile and laminate floor covering shall not contain PCP or a derivative thereof component in the production process of the product or of its raw materials. In cases whe verification is required, if the content is less 5ppm in the parts of the product affected by treatment, this requirements shall be considered to be met. For laminate floor coverings the method CEN/TR 14823, for textile floor coverings the method CEN/TS 14494 shall be sued. For resilient floor coverings verification not required.	Products are manufactured from PVC verification is therefore not required – Not applicable.
Clause 4.3 Formaldehyde emission	When formaldehyde – containing materials been added to the product as a part of the production process, the product shall be test and classified into one of two classes E1 or as specified in table 4 and table 5.	formaldehyde containing ed materials are not used in the

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Clause	Requirement	Result
Clause 4.4 Water -	where required, resilient floor coverings shall	
tightness		
Clause 4.5 Slip resistance	<u>L ZUIL AFRIL X</u>	CULL AFE
Clause 4.5.1 Classification	If a claim for slip resistance is made, the floor	
DII DOME	covering intended to be used in dry and non –	SATRA Report FLO
DIL ZVII	contaminated conditions shall have a dynamic	0191878/1106.
	coefficient of friction of ≥ 0.30 when tested ex	
11 . A DDI	factory under dry conditions in accordance with	MATE ADI
	EN 13893 and shall be declared as technical	
Somptenensye Editor	class DS.	
Clause 4.5.2 post	The floor covering shall be treated, cleaned and	Manufacturers instructions
installation care	maintained in accordance with the	not supplied – not assessed
A Date of the last	manufacturers instructions	
Clause 4.6 Electrical behavio		ARTHUR DESIGNATION OF THE RESIDENCE OF T
Clause 4.6.1 Applicability	For those floor coverings for which the	
THE PARKS	manufacturer makes a claim for antistatic	Action to the second
411 211113	performance or electrical resistance	
Clause 4.6.2 Requirements		
Clause 4.6.2.2 Electrical	Static dissipative floor coverings:	The second second
resistance	The vertical resistance, measured in accordance	SATRA Report FLO
	with EN 1081 for resilient and laminate floor	0188036/1037 and FLO
	coverings or ISO 10965 for textile floor	0191877/1106
	coverings, shall not exceed $10^9\Omega$.	
	Conductive floor coverings	
A SHALL WAS A SHALL BE	The vertical resistance, measured in accordance	
	with EN 1081 for resilient and laminate floor	
	coverings or ISO 10965 for textile floor	
	coverings shall not exceed $10^6\Omega$	N
Clause 4.6.3 Durability	Applicable to textile floor coverings	Not applicable
aspects	XVII CI	
Clause 4.7 Thermal	When floor coverings are to be installed over an	mii . Apr
conductivity	under – floor heating system the design thermal	N . 1 11
	conductivity values given in EN 12524 shall be	Not applicable
RII 2011.	assumed for design calculation purposes.	940 1 2011
THE PARTY OF THE P	Alternatively, the thermal resistance measured in	I I The Land William
	accordance with EN 12667 may be used	

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Clause 5 Evaluation of conformity

Clause	Requirement	Result
Clause 5.1 General	The conformity of floor coverings with	
	the requirements of this standard	-VIII
	(including classes) shall be demonstrated	
	by:	
	Initial type testing	
	Factory production control by the	and the second
	manufacturer, including product	MATE AD
	assessment.	LUIL MI
Clause 5.2 Type testing	abbessiione.	
Clause 5.2.1 Initial type testing	Initial type testing shall be performed to	
Clause 3.2.1 Imital type testing	show conformity with this standard.	Initial type testing carried
	Testes previously performed in	out by SATRA Technology
		Centre see clause 4 for
	accordance with the provisions of this	
	standard (same product, same	individual report references.
	characteristics), test method, sampling	
	procedure, system of attestation of	
	conformity, etc) may be taken into	
	account. In addition, initial type testing	MARKET A DI
	shall be performed at the beginning of the	
	production of a new product type (unless	
	a member of the same family) or at the	BE/HAON-H
	beginning of a new method of production	
	(where this mat affect the stated	Market Ma
	properties)	TOTAL A COLOR
Clause 5.2.2 Sampling, testing	The sample taken for testing shall be	COLUMN TO THE PARTY
and compliance criteria	representative of the available material.	Samples supplied by
211-24-4	Compliance criteria are specified in	customer to SATRA.
	Clause 4.	
Clause 5.3 Factory production	The manufacturer shall establish,	
control (FPC)	document and maintain an FPC system to	DOMESTIC AND A COLUMN
	ensure that the products placed on the	FPC undertaken by
	market conform to the stated performance	manufacturer – not assessed
	requirements. The FPC system shall	by SATRA.
	consist of procedures, regular inspections	by SATIOA.
	and tests and/or assessments and the use	
	of the results to control raw and other	DO-1-1
		CUTTORAL
	incoming materials or components,	1
	equipment, the production process and the	HELL ONLY
	product. Elements needed for the methods	
	of FPC are given in Annex D	

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Clause 6 Marking and labeling

Clause	Requirement	Result
Clause 6 Marking and	Products which conform to the requirements of this	1044 - ADI
labeling	document shall be clearly and indelibly marked by	Not supplied to SATRA –
	the manufacturer either on their package or on an	Not assessed.
DII DONA	adhesive label with the following information:	
11 ZUII	a) The number and year of this European	
	standard i.e EN 14041: 2004	
11 ADE	b) The manufacturers or suppliers identification	DOMESTIC A DESCRIPTION
I AFF	c) The product name and batch number	ULLAFI
Comprehensive mail	(possibly in code form)	

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Annex 1.0 – Product Family

General description of flooring system		of flooring system	Loose Lay interlocking PVC floor tiles	
		flooring system	500/6, 500/7 & 500/10	
Colour reference			Yellow, Selfridges, Stone, White, Grey, Anthracite, Black, Blue, French Blue, Terracotta, Pink, Red,	
			Lime Green and Green.	
Nam	e of Manufactur	er	Ecotile LLP	
Ove	all weight per u	nit area (kg/m²)	7.9 – 11.3	
Ove	all Thickness	DDII ONTI .	6mm, 7mm and 10mm	
Surf	ace Profile	THE EVIL	Various	
Prod	uct Configuration	on		
	211	Product Reference	INT - APRILIDAT	
		Generic Type	OII FILLE LOI	
	Layer 1	Name of Manufacturer	a menti books to be	
	(Silicon /	Application Rate	Not applicable	
	Quartz	Application method	The second secon	
	Particulate)	Specific gravity	A STATE OF THE PARTY OF THE PAR	
ing		Colour reference		
ver		Flame Retardant Details		
Floor covering		Product Reference	500/6, 500/7 & 500/10	
or		Generic Type	Homogenous loose lay PVC interlocking floor tiles	
E		Name of Manufacturer	Ecotile LLP	
	Layer 2	% Composition	Note 2	
	(Wear Layer)	Weight per unit area (kg/m ²⁾	7.9 – 11.3	
	(Wear Layer)	Thickness	6 – 10mm	
	341	Trade name of flame retardant	Not applicable	
		Generic form of flame retardant	Not applicable	
		Amount of flame retardant	Not applicable	
Brief Description of the manufacturing process		the manufacturing process	Injection moulding.	

Note 1: The sponsor of the test has failed to provided 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

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TERMS AND CONDITIONS OF BUSINESS

GENERAL

Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.

PRICES

Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.

3. DELIVERY ESTIMATES

Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.

4. CANCELLATION AND RETURNS

Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.

CLAIMS

Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.

6. PAYMENT TERMS

Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.

7. RETENTION OF TITLE

All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override our Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.

8. GUARANTEE

All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.

TEST REPORTS

Results given in test reports refer only to samples submitted for analysis and tested by SATRA. 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 a test report.

10. TEST SAMPLES

Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.

RESPONSIBILITY

Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.

12. CONFIDENTIALITY

Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:

- i. The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
- ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
- iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.

13. CONSTRUCTION AND ARBITRATION

The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

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