

Firm: Abstracta Ltd
Monomark House
27 Old Gloucester St
London
WC1N 3XX

Attention of: Walker

Technical Services Report

Subject: BS EN ISO 11925-2: 2002
Firm: Abstracta Ltd
For the attention of: Walker
Your ref: Softfloor tiles
Our ref: 64567-1/0543/FLO-O
Date: 6th March 2006

Conditions of Issue:

This report may be forwarded to other parties concerned provided that it is not abbreviated or 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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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 and are not part of the reported results. All comments and interpretations 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.

Tests marked † are not UKAS accredited

Report signed by: S P Ferry
Floorcoverings Team Leader
Floorcoverings Evaluation Centre
On behalf of SATRA Technology Centre Ltd

Contents

Test details	3
Description of test specimens	4
Results	5
Table 1	6
Table 2	6

Test Details

Purpose of test	<p>To determine the performance of specimens of a product when they are subjected to the conditions of the test specified in BS EN ISO 11925-2: 2002 "Reaction to Fire tests – Ignitability Of Building Products Subjected to Direct Impingement of Flame- Part 2: Single Flame Source Test."</p> <p>The test was performed in accordance with the procedure specified in BS EN ISO 11925-2: 2002 Reaction to Fire Tests – Ignitability of Building Products subjected to direct impingement of flame – Part 2: Single Flame Source Test, and this report should be read in conjunction with that standard.</p>
Scope of test	<p>BS 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.</p>
Fire test study group/ EGOLF	<p>Certain aspects of some fire test specifications are open to different interpretations. The Fire Test Study Group and EGOLF have identified a number of such areas and have agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such resolutions are applicable to this test they have been followed.</p>
Instruction to test	<p>The test was conducted on the 8th November 2005 at the request of SATRA on behalf of Abstracta Ltd, the sponsor of the test.</p>
Provision of test specimen	<p>The specimens were supplied by SATRA on behalf of Abstracta Ltd, the sponsor of the test. Warringtonfire was not involved in any selection or sampling procedure.</p>
Conditioning of specimens	<p>The specimens were received on the 3rd November 2005</p> <p>Prior to test the specimens were stored for 5 days in a standard atmosphere as defined in BS EN 13238: 2001 Conditioning Procedures and General Rules for selection of substrates until constant mass was achieved</p>
Substrate	<p>The specimens were tested with a 6mm fibre cement board substrate present.</p>
Flame application time	<p>The flame was applied for 15 seconds.</p>

Description of Test Specimens

The description of the specimens 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		An interlocking floor tile tested loose laid over a fibre cement board substrate
Product reference of flooring system		'Softfloor'
Tile	General Description	An ethylene vinyl acetate (EVA) floor tile
	Manufacturer	Abstracta Limited
	Thickness	15mm
	Width of tile	500mm
	Length of tile	500mm
	Colour reference	Charcoal
	Density	113.60kg/m ³
	Weight per unit area	1.704kg/m ²
	Composition details	100% ethylene vinyl acetate (EVA)
	Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product/component
Substrate	Generic type	Fibre cement board
	Trade name	NT D4 604
	Manufacturer	Scheerders van de kerkhove (SVK)
	Thickness	6mm
	Density	1800kg/m ³
Brief description of manufacturing process of flooring system		The manufacturer was unwilling to provide this information

Test Results

Number of specimens tested

Six specimens were tested, each of which were subjected to surface exposure to flame with the smooth face exposed.

Six specimens were tested, each of which were subjected to edge exposure to flame with the smooth face exposed.

Applicability of test result

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 smoke 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.

The test results for the individual specimens, together with observations made during the test and comments on any difficulties encountered during the test are given in Tables 1 and 2.

On each set of six specimens which were tested, the flame tip did not reach a distance of 150mm before the end of the test.

Validity

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.

This report may only be reproduced in full. Extracts or abridgements shall not be published without permission of Satra/Warringtonfire.

Report signed by:

S P Ferry
Floorcoverings Team Leader
Floorcoverings Evaluation Centre
On behalf of SATRA Technology Centre Ltd

Table 1
Test flame application position – Surface of smooth face

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	YES	Did not reach	60	None	None	78	29
2	YES	Did not reach	60	None	None	79	28
3	YES	Did not reach	60	None	None	76	29
4	YES	Did not reach	50	None	None	78	31
5	YES	Did not reach	60	None	None	74	28
6	YES	Did not reach	50	None	None	75	28

Table 2
Test flame application position – Edge of smooth face

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	YES	Did not reach	70	None	None	73	42
2	YES	Did not reach	70	None	None	75	38
3	YES	Did not reach	80	None	None	74	39
4	YES	Did not reach	70	None	None	73	38
5	YES	Did not reach	70	None	None	73	39
6	YES	Did not reach	70	None	None	74	40

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.

1. PRICES

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

2. 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 we 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.

3. CANCELLATION AND RETURNS

Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA or its subsidiaries (hereafter called The Centre) and a charge will normally be made.

4. 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.

5. 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 your credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, The Centre has a right to cancel any contract and discontinue any work. The Centre 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.

6. RETENTION OF TITLE

All goods remain the property of The Centre 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 The Centre. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of The Centre or (b) they cease trading. In both instances, the licence shall then revert to The Centre.

7. GUARANTEE

All goods manufactured by us 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 our option free of charge. We admit no liability for loss, damage or delay consequent on any defect in any goods supplied by us. Any goods supplied but not made by The Centre carry only the maker's guarantee.

8. 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 we shall not be liable for any error therein. The Centre 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. The Centre 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 The Centre or its servants or agents.

9. **CONFIDENTIALITY**

Unless specifically excluded in the terms of an individual contract between The Centre and its client, 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 The Centre.
- ii. Where The Centre has given consent to disclosure, the client shall draw the attention of the third party to these terms of business and the basis on which The Centre undertakes test, reporting and advising. The client shall indemnify The Centre for any failure to do so.
- iii. The above items are submitted to the client 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.

10. **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.