

SATRA Technology Centre Ltd Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD United Kingdom Tel: +44 (0) 1536 410000

Fax +44 (0) 1536 410626 email: info@satra.co.uk www.satra.co.uk

Customer details: IVC

Nijverheidslaan 29

8580 Avelgem

Belgium

SATRA reference: FLO0233916/1516/1

Your reference: 4500894754

Date of report: 22 April 2015

For the attention of: Natasha Loeman Samples received: 13 April 2015

TECHNICAL REPORT

Subject: Testing of one sample described by the customer as 'MOD Select - Midland Oak

22240 - batch 14787' to DIN 51130:2014 excluding paragraph 6 measurement

of displacement space⁽¹⁾

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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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 quidance 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.

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Mandy de Wet Position: Technologist

Department: Furniture and Floor Coverings



TESTING OF ONE SAMPLE DESCRIBED BY THE CUSTOMER AS 'MOD SELECT - MIDLAND OAK 22240 - BATCH 14787' TO DIN51130:2014 EXCLUDING PARAGRAPH 6 MEASUREMENT OF DISPLACEMENT SPACE⁽¹⁾

As requested by IVC, an assessment has been conducted to determine the slip potential of the sample submitted referenced 'MOD Select - Midland Oak 22240 - batch 14787' using the ramp method, as detailed below.

SUMMARY

With regards to the requirements laid out in DIN 51130:2014, the floor sample submitted under the reference 'MOD Select - Midland Oak 22240 - batch 14787' has demonstrated an average angle of **9.8°**, hence being classified as **R9**.

SAMPLE SUBMITTED

Sample reference: 'MOD Select - Midland Oak 22240 - batch 14787' (2)

Appearance:



Date received: 13 April 2015
Date into conditioning: 13 April 2015
Testing completed: 22 April 2015

Testing conducted by: Phil Weal & Lewis Lawrie

TESTS CARRIED OUT

 DIN 51130:2014 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger - Walking method - Ramp test

Note:

(1) Displacement space —Is not relevant to this test reference. Only required with floor covering having an open structure such like "gratings" with large open surface gaps.

(2) The information supplied by the above Customer. Not verified by SATRA.

IVC

SATRA Reference: FL00233916/1516/1

Date: 22 April 2015 (Page 2 of 5)

Signed:

Molimow.





RESULTS:

Test No.	Operator A	Operator B		
	Inclined Platform Shod	Inclined platform shod		
	Corrected angle result (0)	Corrected angle result (0)		
1	9.7	9.9		
2	9.8	9.6		
3	10.0	9.7		
Corrected operator Mean	9.8	9.7		
Corrected Total Mean	9.8			
Rating	R9			

DISCUSSION:

This test measures slip through the use of a human subject, who walks backwards and forwards over contaminated flooring at ever increasing angles of inclination. The resulting angle at which slip occurs classifies the flooring via a rating using a designation such as R9 up to R13.

The test surface and soles are coated with specific viscosity grade oil and are tilted from the horizontal at a rate of one degree per second. Two people perform the test separately with the subject wearing safety footwear and each determine the angle three times. Renew of lubricant is applied to the flooring surface before each measurement.

A correction value is applied accordingly to each of the operators slip angles from their verification / calibration results. The results table above has the corrected values recorded. These two corrected Mean acceptance angles of Operator A and B are added and divided by two to give the Corrected Total Mean acceptance angle in degrees. This result is used to categorise the surface with the R rating as detailed below.

R rating category

R Value	Category Static Friction is:	Angle of Inclination
R9	Low	6° to 10°
R10	Normal	>10° to 19°
R11	Above Average	>19° to 27°
R12	High	>27° to 35°
R13	Very High	>35°

Note to end use applications:

R9 Floors in work rooms and work areas without a high risk of slipping. General and private areas. R10 to R13 Floors in workrooms and work areas where there is an increased risk of slipping due to grease, oil, water, foods, left-overs, dust, flour, plant clippings, etc.

IVC

SATRA Reference: FLO0233916/1516/1

Date: 22 April 2015

Signed:

(Page 3 of 5)



Annex 1.0

Operator Verification results for DIN 51130:2014

Operator A

	Operator A Verification					
Verification Board	Test Run		Averege	Difference	Proceed?	
	1	2	3	Average	Difference	Proceed?
ST - I (8.7 ± 3.0)	11.5	11.7	11.7	11.6	2.9	Υ
ST - II (17.3 ± 3.0)	20.3	20.3	20.3	20.3	3.0	Υ
ST - III A (27.3 ± 3.0)	30.0	29.5	29.4	29.6	2.3	Υ

Operator B

	Operator B Verification					
Verification Board	Test Run		Average	Difference	Proceed?	
	1	2	3	Avolugo	Directorios	11000001
ST - I (8.7 ± 3.0)	11.6	11.3	11.5	11.5	2.8	Υ
ST - II (17.3 ± 3.0)	20.2	20.3	20.3	20.3	3.0	Y_()\-
ST - III A (27.3 ± 3.0)	29.7	29.9	29.4	29.7	2.4	Υ

IVC

SATRA Reference: FLO0233916/1516/1

22 April 2015 Date:

Signed:

(Page 4 of 5)



TERMS AND CONDITIONS OF BUSINESS

1. 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.

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.

9. 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.

11. 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:

- 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.

Issue Date: 1st October 2009

IVC

SATRA Reference: FLO0233916/1516/1
Date: 22 April 2015

Signed:

(Page 5 of 5)

Mchimow.