

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190 Telephone: 61 3 9252 6000 Facsimile: 61 3 9252 6244 Email: tiles@csiro.au Web: http://www.cmse.csiro.au

Registered Testing Authority - CSIRO

25 November 2011

Our Ref. EN13 / 2066 03/0212

TEST REPORT No. 6096s

Requested by:	mafi
	420 Dynon Road
	West Melbourne
	VIC 3030
on (date):	24 November 2011
Manufacturer:	
Product Desc.:	Oak Vulcano Oil Finish timber floor
	1000x240mm
Sampling details:	
Where:	Delivered
Date:	24 November 2011
By whom:	Courier
How (methods):	N/A

The results reported relate only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results of any actions taken by the client or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 4 pages

	SUMMARY OF SLIP RESISTANCE TESTS PERFORM	IED:	
		Result	Class
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials Appendix A: WET Pendulum (Four S slider):		
	Mean BPN:	25	Y [LOW*]
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET Ramp		
	Mean overall acceptance angle:	12.4°	R 10 [MEDIUM*]
* = CSIRO classification	A C I D A		

In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

It is important to realise that test results obtained on unused factory-fresh samples may not be directly applicable in service, where proprietary surface coatings, contamination, wear and subsequent cleaning all influence the behaviour of the pedestrian surface.



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

TEST CARRIED OUT IN ACCORDANCE WITH AS/NZS 4586:2004 (Appendix A) Test Date: 25 November 2011 Rubber slider used: Four S **RESULTS:** Location: Slip Resistance Laboratory Conditioned with grade P400 paper, dry Sample: Unfixed Cleaning: Deionized water Temperature: 23°C Pendulum Friction Tester: Munro-Stanley (S/N: 9234, calibrated 23/09/09) Test conducted by: Khanh Ho Specimen 2 3 5 1 4 Last 3 swings 26 25 23 25 28 26 24 23 24 28 23 25 23 24 27 **Averages** 26 24 23 24 28 Mean BPN : 25 Y [LOW*] CLASS: * = CSIRO classification

WET PENDULUM TEST METHOD



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

TEST CARRIED OUT IN ACCORDANCE WITH AS/NZS 4586:2004 (Appendix D)			Test Date: 24 November 2011		
Location: Slip Resistan	ce Laboratory				
Sample Fixed					
Joint width: 0 mm					
Surface structure:	[] Smooth [X] Profiled [] Structured				
RESULTS					
Mean overall acceptanc	e angle: 12.4	•			
Displacement space:	not	tested			
CLASSIFICATION:					
Slip Resistance	Assessment Gro	up:	R 10 [MEDIUM*]		
Displacement S	pace Assessment	Group:			
* = CSIRO classification					

OIL-WET RAMP TEST METHOD



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Date and Place

25 November 2011, Highett, Vic

Name, Title and Digital Signature:



KHANH HO Technical Officer Tel: 61 3 92526119 Fax: 61 3 92526244 Email: Khanh.Ho@csiro.au

*CSIRO recommended classification of Slip Resistance as determined from: AS/NZS 4586: 2004 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).

Wet Pendulum Class	BPN 4S Rubber	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
V	>54	54-57	58-61	>61
W	45-54	45-48	49-51	52-54
Х	35-44	35-38	39-41	42-44
Y	25-34	25-28	29-31	32-34
Z	<25	<18	18-21	22-25
Oil Wet Ramp Class	Angle (degrees)	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
R9	≥6 to <10	≥6 to 7.5	7.6 to 9	9.1 to 9.9
R10	≥10 to <19	≥10 to 12	12.1 to 15	15.1 to 18.9
R11	≥19 to <27	≥19 to 21	21.1 to 24	24.1 to 26.9
R12	≥27 to <35	≥27 to 29	29.1 to 32	32.1 to 34.9
R13	>35	>35 to 36	36.1 to 38	≥38.1

AS/NZS 4586 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).

CSIRO has categorized the AS4586 classifications into sub-groups Low, Medium & High. The slip resistance test classification is still determined according to AS 4586 Australian Standard (Appendices A & D). The added information of Low, Medium and High allows professionals to make a better judgement of pedestrian floor requirements.