



Infrastructure Technologies

Gate 5, 2 Normanby Road Clayton VIC 3168, Australia

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Registered Testing Authority - CSIRO

9 November 2016

Our Ref. EN13 / 1683 03/0212

TEST REPORT No. 7786.5A

[This report replaces CSIRO report 7786.5]

Requested by: Forbo Flooring Systems
23 Ornsby Place
Wetherill Park
NSW 2164
on (date): 13 October 2016
Manufacturer: Forbo Flooring Systems
Product Desc.: TE5231 - Cliffs of Moher saw cut

Sampling details:
Where: At customer premises
Date: 14 October 2016
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 5 pages

SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS 4586:2013	Slip resistance classification of new pedestrian surface materials		
	Appendix A: WET Pendulum (Slider 96). Mean SRV:	36	P3
	Appendix B: DRY (FFT). Mean COF:	0.50	D1
	Appendix A,B: Dual classification:		P3 ,D1
AS 4586:2013	Slip resistance classification of new pedestrian surface materials,		
	Appendix D: OIL-WET Ramp		
	Corrected mean overall acceptance angle:	13°	R 10

In order to interpret the classifications, please refer to Standards Australia Handbook 198, 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

WET PENDULUM TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix A)

Test Date: 3 November 2016

RESULTS:	Location:	Slip Resistance Laboratory	Slider used: 96
	Sample:	Unfixed	Conditioned with grade P400 paper, dry
	Cleaning:	Deionized water	and Imperial Lapping Film Grade 3MIC, wet
	Temperature:	22.3°C	

Pendulum Friction Tester: ERM.030.002 (S/N: 9234, calibrated 24/04/2015)
Test conducted by: Khanh Ho

	Specimen				
	1	2	3	4	5
Last 3 swings (BPN)	38	36	36	36	35
	38	36	36	36	35
	38	36	36	36	35
Averages	38	36	36	36	35
Mean SRV :					36

CLASS :

P3

Where products are to be used in wet barefoot areas, it is more appropriate to test to Appendix C of AS 4586 (which is technically equivalent to DIN 51097).



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

DRY FLOOR FRICTION TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix B)

Test Date: 26 October 2016

RESULTS Location: Slip Resistance Laboratory
Sample Sample Unfixed
Cleaning: Deionized water
Temperature: 22.2°C
FFT measurements taken over 2 passes of 800mm each
Slider 96
Conditioned with grade P400 paper, dry

Floor Friction Tester: ERM.030.005 (Tortus Mk II (S/N: 224))
Test conducted by: Khanh Ho

Run 1: Average COF: 0.51

Run 2: Average COF: 0.45

Mean COF: 0.48

According to AS 4586 the Dry Coefficient of Friction shall be reported as :
(mean rounded to the nearest 0.05)

0.50

CLASS :

D1



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

OIL-WET RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix D)

Test Date: 26 October 2016

Location: Slip Resistance Laboratory Test conducted by: KH, AG

Sample Unfixed

Joint width: 0 mm

Surface structure:
☐ Smooth
☒ Profiled
☐ Structured

RESULTS

Corrected mean overall acceptance angle: 13 °

Displacement space: not tested

CLASSIFICATION:

Slip Resistance Assessment Group:

R 10

Displacement Space Assessment Group:

-

Test shoe used: Uvex Athletic



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Date and Place 9 November 2016, Clayton, Vic

Name, Title and Digital Signature:

A digital signature in black ink, appearing to be "Khanh Ho", written over a faint, circular CSIRO logo watermark.

KHANH HO
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