



Infrastructure Technology

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Registered Testing Authority - CSIRO

31 August 2015

Our Ref. EN13 / 580 03/0212

TEST REPORT No. 7482

Requested by: Armstrong World Industries Aust. Pty Ltd
PO Box 109
Mordialloc
VIC 3195
on (date): 19 August 2015
Manufacturer: Armstrong World Industries Aust. Pty Ltd
Product Desc.: Quantum Vinyl Flooring

Sampling details:
Where: Delivered
Date: 19 August 2015
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 PERFORMED:

		Result	Class
AS 4586:2013	Slip resistance classification of new pedestrian surface materials Appendix A: WET Pendulum (Slider 96):		
	Mean SRV:	46	P4
AS 4586:2013	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET Ramp		
	Corrected mean overall acceptance angle:	12°	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: 24 August 2015

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:	23°C	

Pendulum Friction Tester: Stanley (S/N: 0312, calibrated 03/06/2014)
Test conducted by: Andy Giang

	Specimen				
	1	2	3	4	5
Last 3 swings (BPN)	46	47	45	48	45
	46	47	45	48	45
	45	47	45	48	45
Averages	46	47	45	48	45
	Mean SRV :				46

CLASS :

P4

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

OIL-WET RAMP TEST METHOD

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

Test Date: 28 August 2015

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

Sample Fixed

Joint width: 0 mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

Corrected mean overall acceptance angle: 12 °

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 31 August 2015, Highett, Vic

Name, Title and Digital Signature:



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31-Aug-15

RE; CSIRO Test Report No. **7482**

AS/NZS 4586:2013 Slip resistance classification of new pedestrian surface materials.

Armstrong '**Quantum**' Homogeneous sheet vinyl flooring.

Slip Resistance - Areas subject to frequent surface moisture.

While Armstrong '**Quantum**' achieves 'P4' and 'R10' results (as per attached certificate) and offers a higher level slip resistance, Armstrong does not recommend installation of '**Quantum**' to 'wet' areas such as ensuites, showers and bathrooms where floors are subjected to running water or frequent surface moisture.

Armstrong recommends the **Accolade Safe, Accolade Foothold** or **Safeguard** products for installation in 'wet' areas that are subjected to frequent surface moisture (eg ensuites, shower rooms and bathrooms), such as those noted in; HB198-2014 (Table 3A & 3B) and HB197-1999 (Table 3, 4 & 5).

Please note the following from the CSIRO

"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." **CSIRO Test report No. 7482**

Michael Keam

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Commercial Flooring

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