



**Registered Testing Authority - CSIRO**

17 June 2019

Our Ref. EN13 / 2469 03/0212

## TEST REPORT No. 8238.5

Requested by: Armstrong Flooring Pty Ltd  
29-39 Mills Road  
Braeside  
VIC 3195

on (date): 21 March 2019

Manufacturer:  
Product Desc.: Safeguard R12, Slip retardant flooring sheet

Sampling details:  
Where: At customer premises  
Date: 25 March 2019  
By whom: Customer  
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 6 pages

### SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS 4586:2013	Slip resistance classification of new pedestrian surface materials Appendix A: WET PENDULUM TEST METHOD (Slider 96): Mean SRV:	63	P5
AS 4586:2013	Slip resistance classification of new pedestrian surface materials Appendix C: WET-BAREFOOT INCLINING PLATFORM TEST METHOD Mean angle of inclination:	27°	C
AS 4586:2013 (Amendment No. 1)	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET INCLINING PLATFORM TEST METHOD Corrected mean overall acceptance angle:	28°	R 12

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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PHOTOS:



Top view



Close up



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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: 14 June 2019

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:	20.9°C	

Pendulum Friction Tester: ERM 030.040 (S/N: 1726, calibrated 07/09/18), S 96 serial #: 87 (expired on 20/2/2020)  
Test conducted by: Khanh Ho

	Specimen				
	1	2	3	4	5
<b>Last 3 swings (BPN)</b>	<b>65</b>	<b>64</b>	<b>63</b>	<b>63</b>	<b>62</b>
	<b>64</b>	<b>63</b>	<b>62</b>	<b>63</b>	<b>62</b>
	<b>63</b>	<b>63</b>	<b>62</b>	<b>63</b>	<b>62</b>
<b>Averages</b>	<b>64</b>	<b>63</b>	<b>62</b>	<b>63</b>	<b>62</b>

**Mean SRV : 63**

**CLASS :**

**P5**



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**SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS**

**WET-BAREFOOT INCLINING PLATFORM TEST METHOD**

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

Test Date: 6 May 2019

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

Sample Fixed

Joint width: 0 mm

Surface structure:  Smooth  
 Profiled  
 Structured

**RESULTS**

	Critical angle mean	Reported mean
Mean angle of inclination:		
Verification Board WB-A:	11.16 °	11 °
Verification Board WB-B:	18.57 °	18 °
Verification Board WB-C:	24.97 °	24 °
Mean angle of inclination of Test Board:	27.84 °	27 °

**CLASSIFICATION:**

**Quality Group:**

**C**



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**SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS**

**OIL-WET INCLINING PLATFORM TEST METHOD**

TEST CARRIED OUT IN ACCORDANCE WITH  
AS 4586:2013 (Appendix D) (Amendment No. 1)

Test Date: 6 May 2019

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

Sample Fixed

Joint width: 0 mm

Surface structure:  Smooth  
 Profiled  
 Structured

**RESULTS**

Corrected mean overall acceptance angle: 28 °

Displacement space: not tested

**CLASSIFICATION:** Slip Resistance Assessment Group:

**R 12**

Displacement Space Assessment Group:

-

Test shoe used: Leipzig V73-SP

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## Infrastructure Technologies

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Date and Place 17 June 2019, Clayton, Vic

Name, Title and Digital Signature:

A digital signature in black ink, appearing to read "Khanh Ho", is overlaid on a semi-transparent grey circular background that contains the CSIRO logo.

**KHANH HO**  
**Technical Officer**  
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