

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

6 February 2013 Our Ref. EN13 / 2114 03/0212

TEST REPORT No. 6259s

Requested by: Asphalt Art Australia

PO Box 230 St Kilda VIC 3182

on (date): 9 May 2012 Manufacturer: Asphalt Art

Product Desc.: Asphalt Art, Foil based print media with textured polyurethane top coating

Sampling details:

Where: Delivered

Date: 23 January 2013

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/NZS 4586:2004 Slip resistance classification of new pedestrian surface materials Appendix A: WET Pendulum (Four S slider):

Mean BPN: 55 V [LOW*]

AS/NZS 4586:2004 Slip resistance classification of new pedestrian surface materials,

Appendix D: OIL-WET Ramp

Mean overall acceptance angle: 35.0° R 13 [LOW*]

* = CSIRO classification

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.



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

REPORT NO: 6259s Page 2 of 4

ISSUE DATE: 6 February 2013 MANUFACTURER: Asphalt Art

PRODUCT DESC: Asphalt Art, Foil based print media with textured polyurethane top coating

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

WET PENDULUM TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH

AS/NZS 4586:2004 (Appendix A) Test Date: 30 January 2013

RESULTS: Location: Slip Resistance Laboratory Rubber slider used: Four S

Conditioned with grade P400 paper, dry

Sample: Unfixed

Cleaning: Deionized water

Temperature: 23℃

Pendulum Friction Tester: Munro-Stanley (S/N: 9234, calibrated 23/09/09)

Test conducted by: Andy Giang

	Specimen				
	1	2	3	4	5
Last 3 swings	56	55	55	54	55
	55	55	54	54	55
	55	55	54	54	54
Averages	55	55	54	54	55

Mean BPN: 55

CLASS: V [LOW*]

^{* =} CSIRO classification



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

REPORT NO: 6259s Page 3 of 4

ISSUE DATE: 6 February 2013 MANUFACTURER: Asphalt Art

PRODUCT DESC: Asphalt Art, Foil based print media with textured polyurethane top coating

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

OIL-WET RAMP TEST METHOD

	OIL-WET KAWII	OIL-WET RAWIF TEST WIETHOD			
TEST CARRIED OU AS/NZS 4586:2004	IT IN ACCORDANCE WITH (Appendix D)	Test Date: 6 February 2013			
Location: Slip R	esistance Laboratory				
Sample Fixed					
Joint width: 0 mm					
Surface structure:	[] Smooth [X] Profiled [] Structured				
RESULTS					

Mean overall acceptance angle: 35.0 °

Displacement space: not tested

CLASSIFICATION:

Slip Resistance Assessment Group: R 13 [LOW*]

Displacement Space Assessment Group: -

^{* =} CSIRO classification



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

REPORT NO: 6259s Page 4 of 4

ISSUE DATE: 6 February 2013 MANUFACTURER: Asphalt Art

TILE DESC: Asphalt Art, Foil based print media with textured polyurethane top coating

Date and Place 6 February 2013, Highett, Vic

Name, Title and Digital Signature:

Xlianl

ANDY GIANG Technical Officer

Tel: 61 3 92526000 Fax: 61 3 92526244

Email: Andy.Giang@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
X	35-44	35-38	39-41	42-44
Υ	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

This table should not be read or relied upon without reference to the CSIRO/Standards Australia publication: 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.