

WINCKELMAN

# Square Series

25x25, 50x50, 100x100 & 150x150mm. Please contact us for availability.



Red



Chocolate



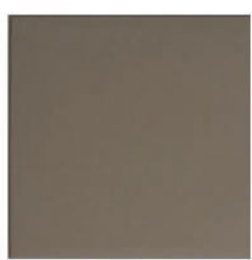
Super White



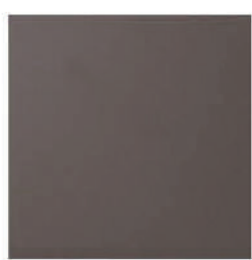
Black



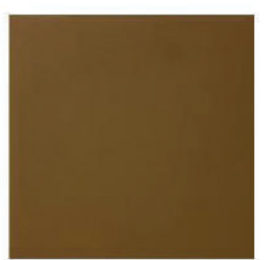
Yellow



Pale Grey



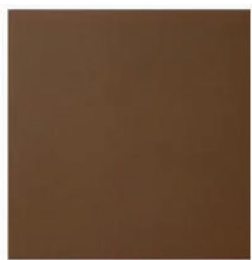
Grey



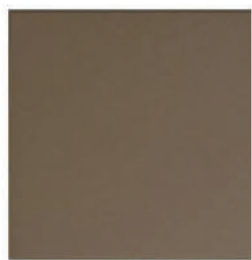
Havana



Ontario



Toffee



Mole



Linen



Cognac



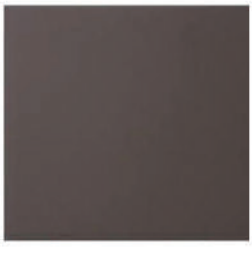
Ivory



Pale Blue



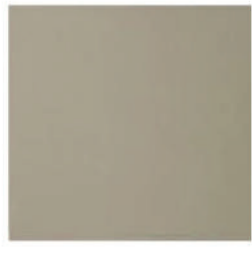
Pale Green



Charcoal



Pink



Pearl Grey



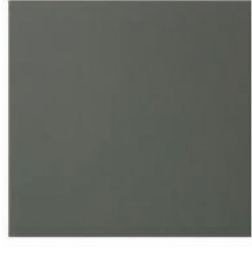
Coffee



White



Blue



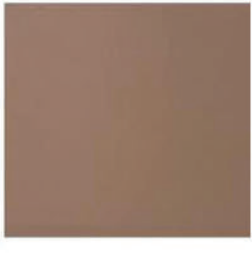
Green



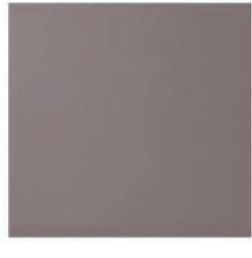
Vanilla



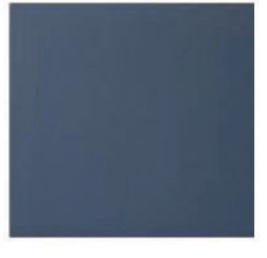
Pastache



Old Pink



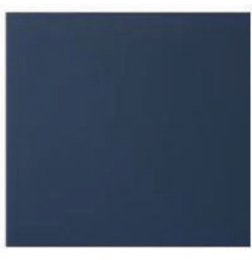
Parma



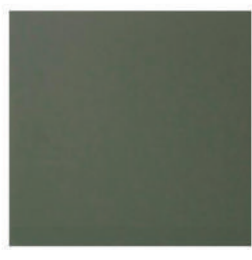
Dark Blue



Dark Green



Blue Moon



Australian Green



Ardoise



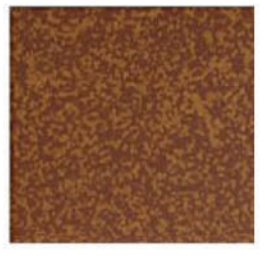
503



504



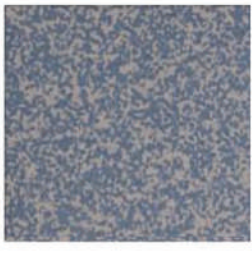
505



506



507



508



509



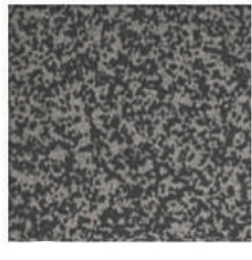
510



Pyreneies



Brittany Grey



Emerald



Charmette A



Charmette B



Charmette C



501



502



# Infrastructure Technology

Manufacturing Flagship, 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**

29 April 2015

Our Ref. EN13 / 2337 03/0212

## TEST REPORT No. 7325.3

Requested by: Metro Tiles Pty Ltd  
192 Granite Street  
Geebung  
QLD 4034  
on (date): 20 March 2015  
Manufacturer: Winckelmans  
Product Desc.: Fully Vitrified Matt Finish 100x100mm

Sampling details:  
Where: Delivered  
Date: 20 March 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 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:	49	P4
AS 4586:2013	Slip resistance classification of new pedestrian surface materials Appendix C: WET/BAREFOOT Ramp Mean angle of inclination:	19°	B
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.



REPORT NO: 7325.3  
ISSUE DATE: 29 April 2015  
MANUFACTURER: Winckelmans  
PRODUCT DESC: Fully Vitrified Matt Finish 100x100mm

**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: 1 April 2015

RESULTS:	Location:	Slip Resistance Laboratory	Slider used: 96
	Sample:	Unfixed	Conditioned with grade P400 paper, dry
	Cleaning:	Acetone	and Imperial Lapping Film Grade 3MIC, wet
	Temperature:	23.6°C	

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

	Specimen				
	1	2	3	4	5
<b>Last 3 swings (BPN)</b>	49	50	50	50	50
	48	50	50	50	49
	48	49	49	49	49
<b>Averages</b>	48	50	50	50	49
	<b>Mean SRV :</b>				<b>49</b>

**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**

**WET/BAREFOOT RAMP TEST METHOD**

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

Test Date: 9 April 2015

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

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: 10.75 °	10 °
	Verification Board WB-B: 17.34 °	17 °
	Verification Board WB-C: 23.05 °	23 °
Mean angle of inclination of Test Board:	19.25 °	19 °

**CLASSIFICATION:**

Quality Group:

**B**





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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: 10 April 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: 13 °

Displacement space: not tested

**CLASSIFICATION:**

**Slip Resistance Assessment Group:**

**R 10**

**Displacement Space Assessment Group:**

**-**

Test shoe used: Uvex Athletic



## Infrastructure Technology

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Date and Place 29 April 2015, Highett, Vic

Name, Title and Digital Signature:

A circular grey stamp containing a handwritten signature in black ink over a faint CSIRO logo.

**KHANH HO**  
**Technical Officer**  
Tel: 61 3 92526119  
Fax: 61 3 92526244  
Email: [Khanh.Ho@csiro.au](mailto:Khanh.Ho@csiro.au)

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