

WINCKELMAN

Hexagon Series

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



Red



Chocolate



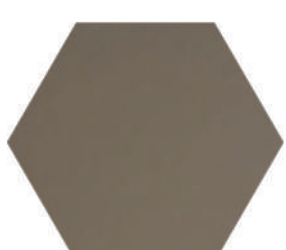
Super White



Black



Yellow



Pale Grey



Grey



Havana



Ontario



Toffee



Mole



Linen



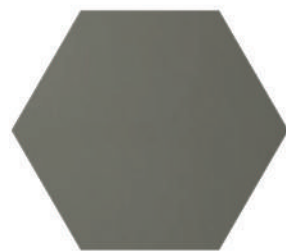
Cognac



Ivory



Pale Blue



Pale Green



Charcoal



Pink



Pearl Grey



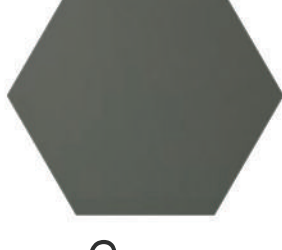
Coffee



White



Blue



Green



Vanilla



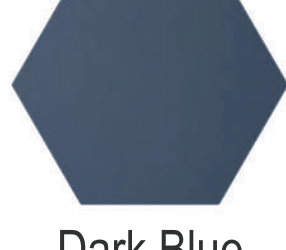
Pastache



Old Pink



Parma



Dark Blue



Dark Green



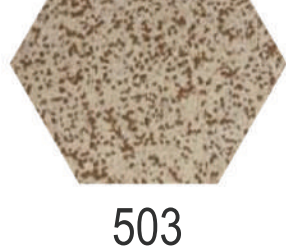
Blue Moon



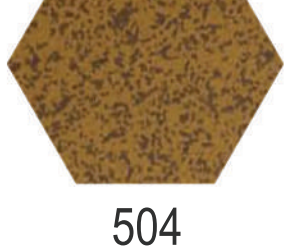
501



502



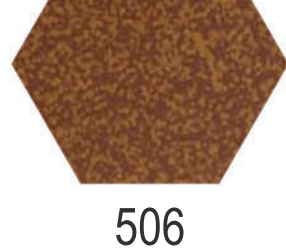
503



504



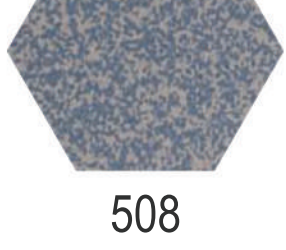
505



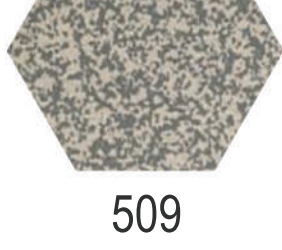
506



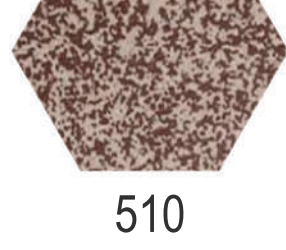
507



508



509



510



Pyreneies



Brittany Grey



Emerald



Charmette A



Charmette B



Charmette C



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
Conditioned with grade P400 paper, dry
and Imperial Lapping Film Grade 3MIC, wet
Sample: Unfixed
Cleaning: Acetone
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
Last 3 swings (BPN)	49	50	50	50	50
	48	50	50	50	49
	48	49	49	49	49
Averages	48	50	50	50	49

Mean SRV : 49

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).



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

Page 3 of 5

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



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

Page 4 of 5

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

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>

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

Page 5 of 5

Date and Place 29 April 2015, Highett, Vic

Name, Title and Digital Signature:

A circular digital signature stamp. It features a greyish-blue background with the CSIRO logo (vertical bars) and the text 'CSIRO' at the bottom. Overlaid on this is a handwritten signature in black ink.

KHANH HO
Technical Officer
Tel: 61 3 92526119
Fax: 61 3 92526244
Email: Khanh.Ho@csiro.au
