Travertine









If you are looking to add a luxurious feel to your house, look no further than Travertine. Known for its earthy colours and hard wearing capabilities travertine looks impressive in traditional and modern homes alike. This ceramic interpretation replicates all the features of a natural stone without the maintenance worries. Sophistication plus.

- **Colours** Beige, Grey & Ivory
- **Sizes** 300x300, 600x600 Matt, External & Lappato
  300x600 & 450x900 Lappato & External

Rectified Edge

V4 Variation

P2 Matt Finish

P4 External Finish

Floor Cat. 4

Glazed Porcelain

GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.

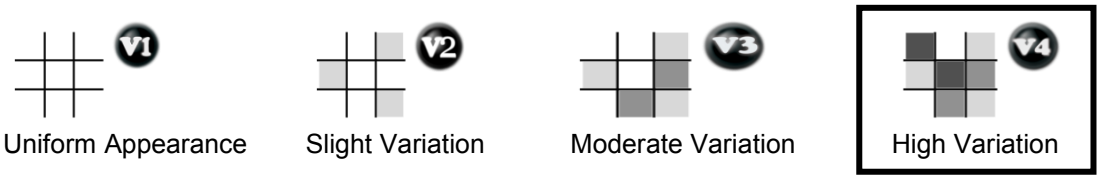
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Colour & Pattern Variation Guide



Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB197:1999 and HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

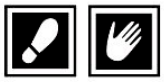
There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.
WARNING: Other standards and building code requirements may affect your selection of tiles.
Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 4 - Floor coverings that are walked on by regular traffic with some scratching dirt so that conditions are more severe than CLASS 3; For example, entrances, laundries with external access, living areas, entertainment areas, patio's, sales rooms, motels.

TECHNICAL SPECIFICATION



60x60cm 24″x24″ ⧗ 10mm 60x60cm 24″x24″ ⧗ 20mm 60x120cm 24″x48″ ⧗ 20mm

Compliant with standards EN 14411 annex G group Bla Compliant with standards ISO 13006 annex G group Bla

	Technical features	Test Method	Requinements for nominal size N			TRAVERTINE	
			7cm≤N<15cm	N≥15cm			
			(mm)	(%)	(mm)	1CM	2CM
	Length and width	ISO 10545-2	±0.9	±0.6	±2.0	±0.01% ±0.02mm	±0.07% ±0.36mm
	Thickness		±0.5	±5	±0.5	±1.00% ±0.10mm	±1.90% ±0.25mm
	Straightness of sides		±0.75	±0.5	±1.5	±0.04% ±0.23mm	±0.15% ±0.89mm
	Rectangularity		±0.75...	±0.5...	±1.5...	±0.06% ±0.36mm	±0.09% ±0.56mm
	Surface flatness		c.c ±0.75	c.c ±0.5	c.c ±2.0	±0.09% ±0.74mm	±0.12% ±1.01mm
			e.c ±0.75	e.c ±0.5	e.c ±2.0		
			W. ±0.75	W. ±0.5	W. ±2.0		
			EnI4411 annex G (Group BI_a)		ISO 13006 annex G (Group BI_a)		
	Water absorption	ISO 10545-3	E≤0.5% individual maximum 0.6%			E≤0.11%	E≤0.38%
	Breaking strength	ISO 10545-4	S≥1300N			S≥2500N	S≥11000N
	Modulus of rupture		R≥35N/mm²			R≥42.4N	R≥42.5N
	Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value		Test method available	≥0.67	≥0.7
	Mohs hardness	EN 101	≥6(UGL)			7	7
	Abrasion resistance	ISO 10545-6	≤175mm³			Class 4	Class 4
	Coefficient of thermal linear expansion	ISO 10545-8	Declared value		Test method available	3.9 X $10^{-6}K^{-1}$	3.9 X $10^{-6}K^{-1}$
	Thermal shock resistance	ISO 10545-9	Pass according to ISO 10545-1		Test method available	Resistant	Resistant
	Moisture expansion(in mm/m)	ISO 10545-10	Declared value		Test method available	≤0.72 mm/m	≤0.72 mm/m
	Frost resistance	ISO 10545-12	Pass according to ISO 10545-1		Required	Resistant	Resistant
	Bond strength/ adhesion	EN 1348	Declared value		—	N/A	N/A
	Reaction to fire		Class A1 or A1		—	$A1_{fl}$	$A1_{fl}$
	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B		Class GA	Passed	Passed
	Resistance to low concentrations of acids and alkalis		Value		Class GLA	—	—
	Resistance to high concentrations of acids and alkalis		Value		Class GHA	—	—
	Resistance to staining	ISO 10545-14	Minimum Class 3		Test method available	Class 5	Class 5
	Barefoot Ramp Test	DIN 51097 (CEN/TS 16165.Annex A)	Declared value		—	C	C
	Shod Ramp Test	DIN 51130 (CEN/TS 16165.Annex A)	Declared value		—	R9-R10	R11
	Pendulum Friction Test	BS 7976-2002(CEN/TS 16165. Annex C)	Declared value		—	PTV>64Dry PTV>38Wet	PTV>90Dry PTV>60Wet
	Coefficient of friction(COF)	B.C.R.A.Rep.CEC/81	D M 236/89 del 14/06/89			1.23Dry 1.16Wet	1.21Dry 1.19Wet
	Dynamic coefficient of friction	ANSI A137.1-2012	ANSI A.137.1 Requires a minimum value of 0.42 for commercial areas that are likely to be wet			0.71Dry 0.62Wet	0.64Dry 0.61Wet
	Static coefficient of friction(SCOF)	ASTM C1028-2007	The Ceramic Tiles Institute identifies Tile Slip Resistant when SCOF≥0.60			≥0.60Dry ≥0.60Wet	≥0.80Dry ≥0.80Wet
	Slip resistance Classification of New Pedestrian Surface Materials	AS 4586：2013 Appendix A	Accredited for compliance with iso/iec 17025			P4-P5	P5
	Pendulum Friction Test	Appendix A(Four S rubber)	Declared classification of the pedestrian surface matenals according to the Wet Pendulum Test			Class X	Class V

SafeEnvironments
MANAGING PROPERTY RISK

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ACCREDITED FOR TECHNICAL COMPETENCE

Slip Check to AS 4586:2013

TR1665 Matt Beige Travertine

NATA Accreditation Number 17139

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

Accredited for compliance with ISO/IEC 17025

NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports

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26 February 2015

Test Report No. R8239a

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

The slip resistance Classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface.

Requested by:	Viewgres
Client Address:	Floor 21, Building T3 Smart City, 1 Jihua Road Foshan, Guangdong, China
Product Manufacturer:	Viewgress
Product Description:	TR1665 Matt Beige Travertine
Test conducted according to:	AS 4586:2013 Appendix A
Location:	Slip Check Pty Ltd Test Facilities, Blacktown NSW 2148
Conducted by:	Stuart Lumsden

Date:	25 February 2015	Temperature:	25°C
Sample:	Unfixed	Cleaning:	None
Rubber slider used:	Slider 96	Conditioned:	Grade P 400 paper dry followed by wet lapping film
Slope of specimen:	Tested on a flat level surface		
Direction of Test:	NA		

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	26	26	25	26	24

Reported SRV of Sample:	**25**
Class:	**P2**

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Ryan Voorderhake
Laboratory/Field Technician

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Slip Check to AS 4586:2013

TR1666A External Grey Travertine

NATA Accreditation Number 17139

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

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26 February 2015

Test Report No. R8239b

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

The slip resistance Classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface.

Requested by:	Viewgres
Client Address:	Floor 21, Building T3 Smart City, 1 Jihua Road Foshan, Guangdong, China
Product Manufacturer:	Viewgress
Product Description:	TR1666A External Grey Travertine
Test conducted according to:	AS 4586:2013 Appendix A
Location:	Slip Check Pty Ltd Test Facilities, Blacktown NSW 2148
Conducted by:	Stuart Lumsden

Date:	25 February 2015	Temperature:	26°C
Sample:	Unfixed	Cleaning:	None
Rubber slider used:	Slider 96	Conditioned:	Grade P 400 paper dry followed by wet lapping film
Slope of specimen:	Tested on a flat level surface		
Direction of Test:	NA		

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	54	53	53	53	56

Reported SRV of Sample:	**54**
Class:	**P4**

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Ryan Voorderhake
Laboratory/Field Technician

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