

REEF STONE

Reef stone is commonly found in clear, warm and shallow marine waters where its character is developed from the accumulation of shell, coral and other sediments found in the sea. This highly technical series builds on nature creating a perfect chromatic colour palette. It is available in both 10mm and 20mm for all architectural needs.

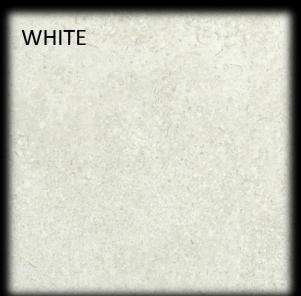




REEFSTONE













600x600mm Matt Lappato External – 10 & 20mm 300x600mm Matt Lappato External

300x300mm Matt Lappato External

75x300mm Lappato only





V2
Variation

Rectified Edge

Glazed Porcelain



Matt finish



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

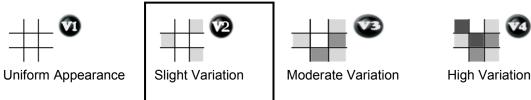
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility 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 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.

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60x60cm 24"x24" **▼** 10mm





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

			Requ				
	Technical features	Test Method	7cm≤N<15cm		N≥15c		
			(mm)	(9	%)	(mm)	1CM
	Length and width		± 0.9	±	0.6	± 2.0	± 0.01% ± 0.02mm
	Thickness		± 0.5	±	5	±0.5	± 1.00% ± 0.10mm
	Straightness of sides		± 0.75	+	0.5	± 1.5	± 0.04%
	Rectangularity	ISO 10545-2					± 0.23mm ± 0.06%
	riectargularity		± 0.75	50000	0.5	± 1.5	± 0.36mm
Li	Surface flatness		c.c ± 0.75 e.c ± 0.75		± 0.5 ± 0.5	c.c ±2.0 e.c ±2.0	± 0.09%
			W. ±0.75		± 0.5	W. ±2.0	± 0.74mm
			Enl4411 annex G (G	roup Bl _s)	ISO 13006	annex G (Group Bl,)	
\	Water absorption	ISO 10545-3	0545–3 E≤0.5% individual maximum 0.6%				
	Breaking strength			S≥1	300N		S≥2500N
₹	Modulus of rupture	ISO 10545-4			iN/mm²		
	Modulus of Tupture			n=30	NA/ITIITI		R≥42.4N
3 3	Abrasion resistance	ISO 10545–6 ≤175mm ¹					Class 4
\	Coefficient of thermal linear expansion	ISO 10545-8	Declared valu	ıe	Test me	ethod available	3.9 X 10 ⁻⁶ K ⁻¹
*	Thermal shock resistance	ISO 10545-9	Pass according to ISC) 10545-1	Test me	ethod available	Resistant
	Resistance to household chemicals and swimming pool salts		Minimum Clas	ss B	Class GA	Passed	
	Resistance to low concentrations of acids and alkalis	ISO 10545-13	Value		Class GLA	_	
	Resistance to high concentrations of acids and alkalis		Value			Class GHA	_
80	Moisture expansion(in mm/m)	ISO 10545-10	Declared valu	ie	Test me	≤0.72 mm/m	
*	Frost resistance	ISO 10545-12	Pass according to ISC) 10545–1	ı	Required	Resistant
Ψ,	Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value	ue	ethod available	≥0.67	
	Mohs hardness	EN 101		7			
H	Bond strength/ adhesion	EN 1348	Declared valu	ue		_	N/A
<u> </u>	Reaction to fire		Class A1 or /	A1		_	A1,
ζ,	Resistance to staining	ISO 10545-14	Minimum Clas	ss 3	Test m	nethod available	Class 5
	Coefficient of friction(COF)	B.C.R.A.Rep.CEC/81		D M 236	5/89	1.21Dry 1.19Wet	
2	Dynamic coefficient of friction	ANSI A137.1-2012	ANSI A.137.1 commercial a	reas that are	e likely to be v	vet	0.64Dry 0.61Wet
	Static coefficient of friction(SCOF)	ASTM C1028-2007	The Ceramic Tiles SCOF≥0.60	Institute ide	entifies Tile Sli	p Resistant when	≥0.80Dry ≥0.80Wet
	Slip resistance Classification of New Pedestrian Surface Materials	AS 4586 : 2013 Appendix A	Accredite	P5			
	Pendulum Friction Test	Appendix A(Four S rubber)	Declared classification of the pedestrian surface materials according to the Wet Pendulum Test				Class V
	Barefoot Ramp Test	DIN 51097 (CEN/TS 16165.Annex A)	Declared val	ue		_	С
2	Shod Ramp Test	DIN 51130 (CEN/TS 16165.Annex A)	Declared val	ue		_	R11
- 10	Pendulum Friction Test	BS 7976-2002(CEN/TS	Declared val				PTV>64Dry

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45×90cm 18"×36" ¥ 20mm





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

	Technical features	Test Method	7cm≤N<15cm	7cm≤N<15cm N≥15cm						
	s e a cesar har san a aco. Mariado		(mm)	(*	%)	(mm)	2CM			
	Length and width		±0.9	±	0.6	±2.0	± 0.07% ± 0.36mm			
	Thickness		Lenson .		N-3675	±0.5	± 1.90% ± 0.25mm			
			± 0.5				± 0.25mm ± 0.15%			
	Straightness of sides	ISO 10545-2	±0.75	±	0.5	± 1.5	± 0.89mm ± 0.09%			
	Rectangularity		± 0.75,	- 20).5	± 1.5	± 0.09% ± 0.56mm			
11	Surface flatness		c.c ± 0.75 e.c ± 0.75		± 0.5 ± 0.5	c.c ± 2.0 e.c ± 2.0	±0.12%			
	Surface namess		W. ±0.75		±0.5	W. ±2.0	± 1.01mm			
			Enl4411 annex G (C	Group Bl.,)	ISO 13006	annex G (Group Bl,)				
•	Water absorption	ISO 10545-3	E≤0.5	% individual	maximum 0	.6%	E≤0.11%			
ı	Breaking strength	VILLER ***********************************		S≥1	300N		S≽11000N			
1	Modulus of rupture	ISO 10545-4		R≥35	iN/mm²		R≥42.5N			
	***************************************			Wester	2010101					
3 3	Abrasion resistance	ISO 105456		Class 4						
1	Coefficient of thermal linear expansion	ISO 10545-8	Declared va	lue	Test n	nethod available	3.9 X 10-6K-1			
*	Thermal shock resistance	ISO 10545-9	Pass according to IS	O 10545-1	Test n	nethod available	Resistant			
	Resistance to household chemicals and swimming pool salts		Minimum Class B Class GA				Passed			
1	Resistance to low concentrations of acids and alkalis	ISO 10545-13	Value		Class GLA					
	Resistance to high concentrations of acids and alkalis		Value			Class GHA	u— ∩			
**	Moisture expansion(in mm/m)	ISO 10545-10	Declared va	Declared value Test method available						
**	Frost resistance	ISO 10545-12	Pass according to IS	O 10545-1		Required	Resistant			
"	Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value Test method available				≥0.7			
	Mohs hardness	EN 101			7					
H	Bond strength/ adhesion	EN 1348	Declared va	lue	-		N/A			
<u>></u>	Reaction to fire		Class A1 or	A1		_	A1,			
2,	Resistance to staining	ISO 10545-14	Minimum Cla	iss 3	Test	method available	Class 5			
	Coefficient of friction(COF)	B.C.R.A.Rep.CEC/81		D M 236	06/89	1.21Dry 1.19Wet				
2	Dynamic coefficient of friction	ANSI A137.1-2012		1 Requires a areas that ar		alue of 0.42 for wet	0.64Dry 0.61Wet			
	Static coefficient of friction(SCOF)	ASTM C1028-2007	The Ceramic Tile SCOF≥0.60	s Institute ide	entifies Tile S	Slip Resistant when	≥0.80Dry ≥0.80Wet			
	Slip resistance Classification of New Pedestrian Surface Materials	AS 4586 : 2013 Appendix A	Accredited for compliance with iso/iec 17025				P5			
	Pendulum Friction Test	Appendix A(Four S rubber)	Declared classification of the pedestrian surface materials according to the Wet Pendulum Test				Class V			
	Barefoot Ramp Test	DIN 51097 (CEN/TS 16165.Annex A)	Declared va	ilue		_	С			
2	Shod Ramp Test	DIN 51130 (CEN/TS 16165.Annex A)	Declared va	alue		_	R11			
_		BS 7976-2002(CEN/TS	Declared va				PTV>90Dry			

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Reefstone Series

ON SITE WET & DRY FLOOR SLIP TESTING SERVICES

Over 15 years experience in Slip Prevention Technology

ABN 51 590 707 895 27 Thomas Mitchell Road Killarney Vale NSW 2261 PH: 1300 Sliptest (1300 754 783)

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Client:	GNS Ceramics Pty Ltd		Client Ad	dress	3 Cox P	lace, Glendeni	ning. I	NSW	2761				
Project:	Test tile samples as sup	plied					50X						
Property Tested:	3 Cox Place, Glendennir	761	Date	14/112017		Test Report	141120174			74	Issue Date	14/11/2017	
Testing was	carried out using the V Slide		ethod, using ¹ ditioned/prepa									AS 4586 Appe	endix A.
Description of test san coatings, conta Number of specimen	Test Location		Test Type Fixed/ Unfixed	Surface Gradient Degrees	Type and extent of cleaning performed	Results of last three swings British Pendulum Number			Mean BPN Value (SRV)	Slope correction value (SCV)	Comments		
	Tile	1	Unfixed	<1.5°	Water only.	38	37	37	37	Not Applicable			
600 mm x 600 mm Porcelain "Viewgres			Tile	2.	Unfixed	<1.5°	found"	38	37	36	37 37	Not Applicable Not Applicable	
Reefstone (Code: RF 166 Batc	3	Tile 3.		Unfixed	<1.5°	39		37	36				
Samples clean ar	4	Tile	4.	Unfixed	<1.5°		37	35	34	35	Not Applicable		
		5	Tile	5.	Unfixed	<1.5°]	38	37	36	37	Not Applicable	
Temperature:	Comments 21°C Weather	Indoors	Mean BPN Slip Resistance Value (SRV) 37 Classification Without SCV										P3
Testing Officer & Si Mark McKay	ignatory Munro Portable Skid Tester	NATA	Sliptest NSW Materials Testing Laboratory – Accreditation No: 18615 27 Thomas Mitchell Rd, Killarney Vale. NSW 2261								For information regarding Slope Correction Values, please refer to		
The AS 4586 s recommendation fo report be read in	standard provides a guide or use, we recommend than on conjunction with AS 458	ACCREDITED FOR TECHNICAL COMPETENCE	TECHNICAL									Appendix F of AS 4586 and HB 198 Tables 3A and 3	
	2014. The results in this to y future wear contamination		Notes / Remarks / Variations										
maintenance of this s	1	Fixed Test: Testing is performed in the anticipated direction of pedestrian travel.											
	ees accept no responsibil which may arise as a res		2	Unfixed Tes	st: Testing is	s performe	d in the direction	n of lea	st antic	ipated	slip resistar	ce	
	nation within this report is		3										

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22/08/2018



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS AS 4586 (2013) "Appendix A" (Wet Pendulum Method)

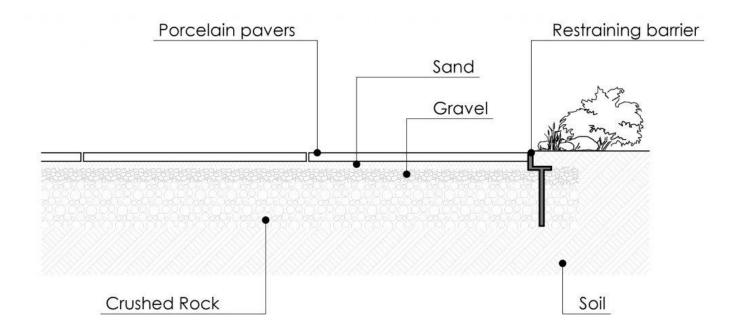
Client:	GNS Cerami				Client Ad		T	Place, Glende		-	•	•	et Pendulum M	
Project:	Test tile sam						1	,		,				
Property Tested:	3 Cox Place,	•	• •	V 2761	Date	11/09/2017		Test Report	11092017		6a	Issue Date	11/09/2017	
Testing was	carried out us			ethod, using [·] ditioned/prepa									AS 4586 Appe	ndix A.
Description of test sample (including any surface coatings, contamination and wear). Specimen Number				Tesi Locati		Test Type Fixed/ Unfixed	Surface Gradient Degrees	Type and extent of cleaning	Results of last three swings British Pendulum			Mean BPN Value	Slope correction value	Comments
								performed	Number			(SRV)	(SCV)	
	Tile	1	Unfixed	<1.5°	Water only.	65	65	64	65	Not Applicable				
300 mm x 300 mm Viewgres Reef Stone Grey external (Factory code RF1336A) Samples clean and in good condition.			Tile	Tile 2.		<1.5°	Samples tested in "as found" condition.	64	64	64	64 65	Not Applicable Not Applicable		
			Tile 3.		Unfixed	<1.5°		65	65	64				
			Tile 4.		Unfixed	<1.5°		65	65	65	65	Not Applicable		
			5	Tile 5.		Unfixed	<1.5°		65	65	64	65	Not Applicable	
Tomporeture	Comments	Weather	Indooro	Mean BPN Slip Resistance Value (SRV) 65 Classification Without SCV									P5	
Testing Officer & S Mark McKay Testing Instrument:	Testing Instrument: Munro Portable Skid Tester #1109					Sliptest NSW Materials Testing Laboratory – Accreditation No: 18615 27 Thomas Mitchell Rd, Killarney Vale. NSW 2261						For information regarding Slope Correction Values, please refer to		
The AS 4586 recommendation for report be read	Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements are traceable to Australian/National standards competence									Appendix F of AS 4586 and HB 198 Tables 3A and 3B.				
Handbook HB 198:2014. The results in this test do not account for any future wear contamination or				Notes / Remarks / Variations										
maintenance of this		Fixed Test: Testing is performed in the anticipated direction of pedestrian travel.												
licensees or emplo- actions whatsoeve		2 Unfixed Test: Testing is performed in the direction of least anticipated slip resistance												
test report, all infor	3													
and is p	rotected by copy	right law.		Controlled Doo	ument TR 4	586 4S ver	rsion 5 (04.01.16				Page	1 of 1	



INSTALLATION INSTRUCTIONS FOR 20MM PORCELAIN PAVERS

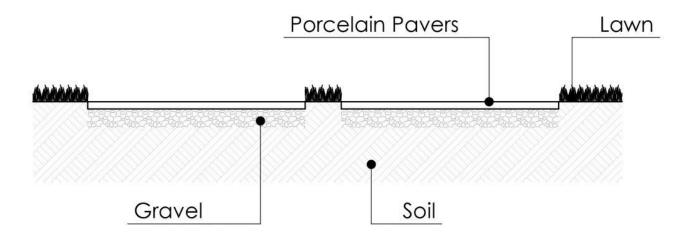
Porcelain pavers on a gravel/sand bed.

- Firstly, ensure there is a min. 2° slope for drainage which must be directed away from any building.
- After defining the area to be excavated, mark the perimeter using marker posts connected by a string. Note that
 the excavated area should be extended on all sides by approx. 200mm to ensure stability at the outer edges of
 the paved area.
- Remove the soil inside the marked area using a shovel or excavator. The depth of excavation will depend on several factors including the anticipated loading, the drainage capacity of the soil and the soil conditions in general.
- Using a rake or shovel, level the excavated area and ensure there is at least 2° slope for good drainage.
- Compact the soil with a vibrating compactor.
- A restraining perimeter wall should be installed prior to laying the gravel/sand bed unless it is in direct contact
 with a footpath, wall or an existing edge that is sufficiently rigid. The perimeter wall should be fixed to the ground
 with mechanical fixing devices or constructed as a solid barrier using poured concrete.
- Place a sheet of geotextile fabric on top of the compacted soil to prevent the soil from mixing with the gravel.
- Fill the excavated area with 15-20mm stone screenings to a thickness of 200 300mm, depending on the planned loading.
- Add a further layer of 10mm gravel to a thickness between 100-200mm.
- Compact the two layers and then level ensuring there is a slope of approximately 2°.
- Place a sheet of geotextile fabric on top of the compacted gravel to prevent the gravel from mixing with the sand.
- Fill the area with paving sand to a thickness of between 20-25mm and compact with a vibrating compactor.
- Level the surface by sliding a wood or steel board placed on two parallel runners across the entire area, again ensuring there is a slope of approximately 2°.
- Taking care not to disturb the sand bed, lay the paving slabs using 3mm spacers. **Do not butt joint**
- Carefully tap the pavers with a rubber mallet to ensure they are not rocking on the sand bed and that they are level with each other. Fill the joints with polymeric sand that is suitable for use with porcelain tiles.



Porcelain pavers on grass.

- Lay the pavers on the ground to determine the numbers of steps needed for the garden path, making sure the pavers are placed at equal distance from each other.
- The joint width between the pavers should be chosen depending on the appearance required. For stepping stones or pathways, the pavers would be normally laid with open joints with grass in between. However for areas where outdoor furniture will be used, pavers would normally be laid with 3mm joints ensuring the joints are filled with polymeric sand that is suitable for use with porcelain tiles.
- Mark the perimeter of each paver with a spade and then remove the pavers.
- Remove the turf up to a depth of between 50-75mm.
- Fill with a layer of fine 5-10mm gravel and compact the gravel before laying the pavers. If preferred, lay 25mm thick layer of sand to add as a bed for the pavers.
- Carefully lay the pavers so they protrude above ground level by approximately 6-10mm. The pavers must not protrude above the lawn level, to avoid damaging lawn mower blades when cutting the grass.
- Carefully tap the pavers with a rubber mallet to ensure they are bedded properly.

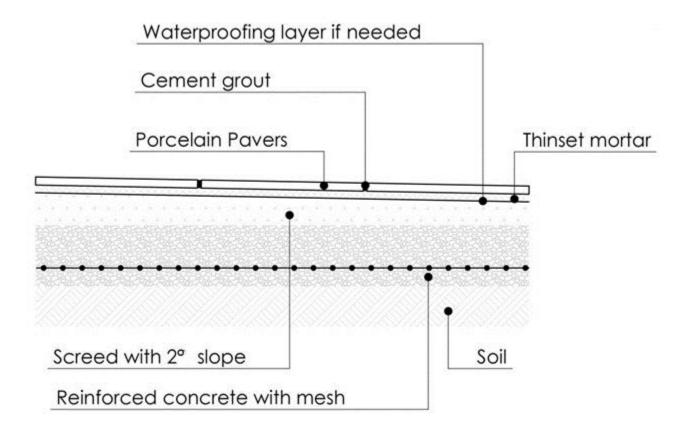


Porcelain pavers for elevated deck applications.

- For elevated deck applications, adjustable height pedestal supports offer the easiest and quickest way to
 construct a perfectly horizontal deck or terrace over sloping or uneven surfaces, avoiding the need to construct
 extensive supporting substructures of wood or metal beams. Electrical cables and pipes can be hidden under the
 pavers but easily inspected at any time by simply lifting individual pavers.
- Depending on the width of the pavers, pedestals are either placed directly under the pavers or are used to support an array of hollow steel beams, over which the pavers are laid.
- For instructions on how to install pavers using the pedestal system we recommend following the manufactures' instructions.

Porcelain pavers on a concrete base.

- Verify the concrete substrate is in good condition, is installed in accordance with relevant building codes and reinforced with steel mesh, and is constructed with a 2° slope pitched away from any building.
- Clean the surface of the concrete to ensure good adhesion of the pavers.
- Spread an approved exterior grade thin set mortar over the concrete using the correct sized notched trowel.
- Lay the pavers on the thin set with minimum 3mm joint spacing where the area is not large enough to require
 expansion joints, or with 5mm spacing where expansion joints are present. All expansion joints should be
 installed in accordance with Australian Standards and must be located along the joint line of the installed pavers
 to avoid cracking of the pavers.
- After the thin set has dried, grout the pavers with an approved exterior grade grout.
- Wash the pavers carefully after grouting to remove excess grout.
- A final buffered acid wash will also be required to remove any invisible grout residue.
- If polymeric sand is preferred over grout, we recommend proprietary Tile Sand which is specifically made for porcelain pavers.





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Client:	GNS Ceramics Pty Ltd			Client Address 3 Cox Place, Glendenning. NSW 2761									
Project:	Test tile samples as supp	plied					***	******					
Property Tested:	3 Cox Place, Glendennir	J. NSW 2761		14/112017		Test Report	141120175			75	Issue Date	14/11/2017	
Testing was	carried out using the V		ethod, using [*] ditioned/prepa									AS 4586 Appe	endix A.
Description of test sample (including any surface coatings, contamination and wear). Number of specimens tested 5			Test Location		Test Type Fixed/ Unfixed	Surface Gradient Degrees	Type and extent of cleaning performed	extent of three swings cleaning British Pendulur		ngs Iulum	Mean BPN Value (SRV)	Slope correction value (SCV)	Comments
	Tile	1	Unfixed	<1.5°	Water only.	64	64	64	64	Not Applicable			
600 mm x 600 mm x 20 mm Porcelain			Tile	2.	Unfixed	<1.5°	Samples tested in "as found"	65 64	64	64	64 65 65	Not Applicable	
"Viewgres Reefsto Code: RF 2666	3	Tile 3.		Unfixed	<1.5°	condition.	65	65	64	Not Applicable			
	Batch: H41C Samples clean and in good condition.			4.	Unfixed		<1.5°	65	65	64		Not Applicable	
		5	Tile 5.		Unfixed	<1.5°		65	65	65	65	Not Applicable	
Temperature:	Comments 21°C Weather	Indoors	Mean BPN Slip Resistance Value (SRV) 65 Classification Without SCV									P5	
Testing Officer & S Mark McKay Testing Instrument: N Calibration Date: 1	NATA	Sliptest NSW Materials Testing Laboratory – Accreditation No: 18615 27 Thomas Mitchell Rd, Killarney Vale. NSW 2261								For information regarding Slope Correction Values, please refer to			
recommendation for report be read it	standard provides a guide or use, we recommend that in conjunction with AS 458	ACCREDITED FOR TECHNICAL COMPETENCE	TECHNICAL								Appendix F of AS 4586 and HB 198 Tables 3A and 3B		
	:2014. The results in this to by future wear contamination		Notes / Remarks / Variations										
maintenance of this	surface. Sliptest NSW or o	our agents,	1	Fixed Test: Testing is performed in the anticipated direction of pedestrian travel.									
	yees accept no responsibil r which may arise as a res		2	Unfixed Tes	st: Testing is	s performe	d in the direction	of lea	st antic	ipated	slip resistan	ce	
	mation within this report is		3										

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22/08/2018