

Falkirk

The soft and subtle movement of the Falkirk series comprises a refined limestone design with small aggregate flecks that bestow a sense of opulence. With five sizes and two colours and available in three finishes this series will emphatically meet your needs.

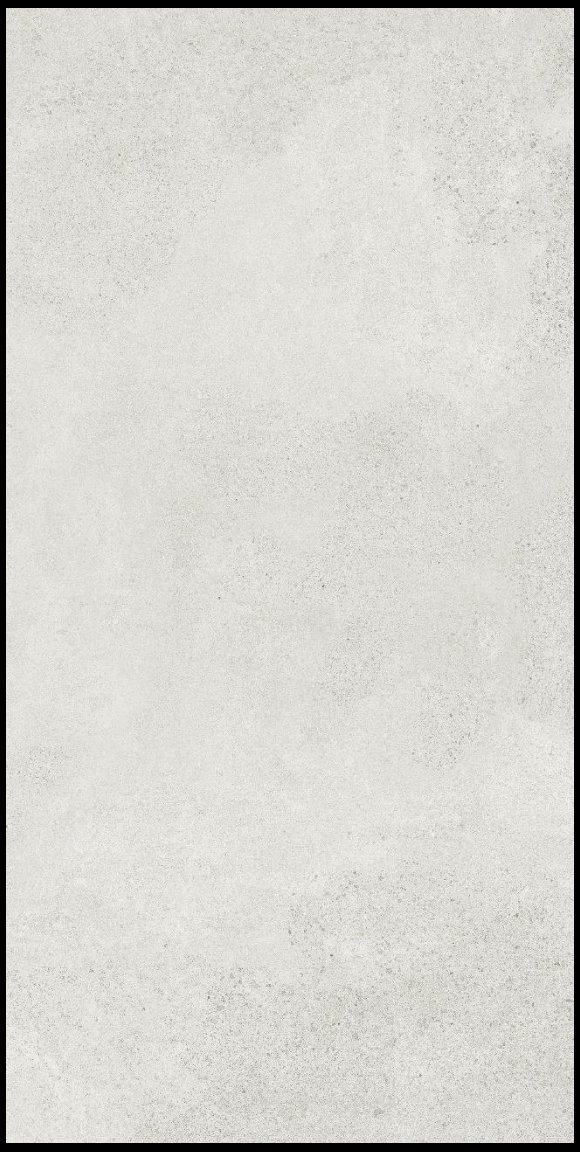


GNS CERAMICS
EXCLUSIVELY WHOLESALE

Falkirk



Grey



Off-White

600x1200mm
Matt
Polished Glaze

600x600mm
Matt
Polished Glaze
External

300x300
Matt

75x300mm
Matt

300x600mm
Matt
Polished Glaze

Glazed Porcelain

Rectified Edge

V2 Variation

Floor Cat. 2
Polished

Floor Cat. 4

P4
External

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

Installation Instructions

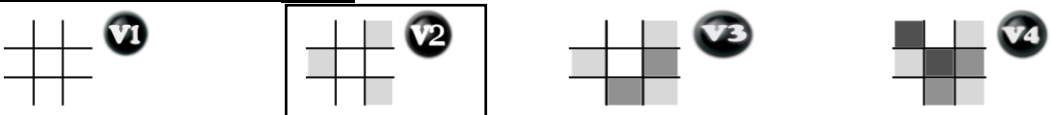
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility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



Uniform Appearance | Slight Variation | Moderate Variation | High Variation

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 2 - Floor coverings in areas that are walked on with soft-soled or normal footwear with, at the most, occasional small amounts of scratching dirt; For example, main bathrooms, bedrooms with the exception of those areas that experience heavy pedestrian traffic, i.e. work boots, stilettos, and outdoor shoes.

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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INSPECTION & QUARANTINE TECHNOLOGY CENTER

TEST REPORT

REPORT NO. 25202301569

NAME OF SAMPLES CERAMIC TILES

APPLICANT SHENYANG HAOSONG CERAMIC CO.,LTD

MANUFACTURER SHENYANG HAOSONG CERAMIC CO.,LTD

DATE OF INSPECTION 08/05/2023 – 12/05/2023 (DD/MM/YY)

STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

TEST REPORT

Report No: 25202301569

Name of Sample	**CERAMIC TILES**	**Nominal Size**	**60cm×60cm**
Type	**GLAZED**	**Work size**	**600mm×600mm×9.2mm**
Group	**Group B Ⅰb, rectified tiles**	**Quantity of Samples**	**30 Pieces**
Mark of Samples	**M1**	**Description of Samples**	**The samples are sound, intact and fit for test.**
Manufacturer	**SHENYANG HAOSONG CERAMIC CO.,LTD**	**Address of Manufacturer**	**—**
Telephone of Manufacturer	**—**	**Fax of Manufacturer**	**—**
Samples selected by	**Name: MUHAMAD MUZHAFAR FIKRI BIN ISMAIL Institution: SIRIM QAS INTERNATIONAL SDN. BHD. Date: 06/11/2022**	**Received on**	**08/05/2023**
Test Standard	**MS ISO 13006:2020 *Ceramic tiles – Definitions, classification, characteristics and marking***		
Conclusion of Test	**The results conform to the requirement of standard MS ISO 13006:2020 with respect to the test items.**		
Stamp of Inspection Unit	**Date:16/05/2023**	**Address of Test Unit**	**Address: 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi Road, Chancheng District, Foshan, Guangdong, China (528000) Tel: 86-757-83960558 86-757-83827991 Fax: 86-757-83827971 E-mail: fsiqtc@163.com**
Notes	**1. All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2. This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3. The results in this report apply to the samples only. 4. The product information are declared by applicant，and laboratory is not responsible for the authenticity.**		

Tested by _____ **Inspected by** _____ **Approved by** _____

TEST REPORT

Report No: 25202301569

Photo of Samples





TEST REPORT

Report No: 25202301569

MS ISO 13006:2020 *Ceramic tiles – Definitions, classification, characteristics and marking*

Clause	Properties	Test Method	Requirements		Results	Verdicts
Annex H Table H.1	**Dimensions and surface quality**					
	Length and width The deviation, of the average size for each tile from the work size	MS ISO 10545-2:2002	N≥15cm	±0.3%	0~+0.02%	P
				±1.0mm	0~+0.2mm	P
	Thickness The deviation of the average thickness of each tile from the work size thickness	MS ISO 10545-2:2002	N≥15cm	±5%	-0.2%~+1.4%	P
				±0.5mm	0~+0.1mm	P
	Straightness of sides The maximum deviation from straightness related to the corresponding work sizes	MS ISO 10545-2:2002	N≥15cm	±0.3%	0~+0.02%	P
				±0.8mm	0~+0.1mm	P
	Rectangularity The maximum deviation from Rectangularity related to the corresponding work sizes	MS ISO 10545-2:2002	N≥15cm	±0.3%	+0.04%~+0.06%	P
				±1.5mm	+0.2mm~+0.4mm	P
	Surface flatness: The maximum deviation from flatness					
	a) centre curvature, related to diagonal calculated from the work size;	MS ISO 10545-2:2002	N≥15cm	±0.4%	+0.02%~+0.04%	P
				±1.8mm	+0.2mm~+0.3mm	P
	b) edge curvature, related to the corresponding work sizes;	MS ISO 10545-2:2002	N≥15cm	±0.4%	-0.03%~+0.05%	P
				±1.8mm	-0.2mm~+0.3mm	P
	c) warpage, related to diagonal calculated from the work size.	MS ISO 10545-2:2002	N≥15cm	±0.4%	-0.05%~+0.07%	P
				±1.8mm	-0.4mm~+0.6mm	P
	Surface quality	MS ISO 10545-2:2002	A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P
	Physical properties					
	Water absorption Percent mass fraction	MS ISO 10545-3:2001	0.5% < E_v≤3%		2.3%	P
			Individual maximum 3.3%		2.0%~2.5%	P

TEST REPORT

Report No: 25202301569

MS ISO 13006:2020 *Ceramic tiles – Definitions, classification, characteristics and marking*

Clause	Properties	Test Method	Requirements	Results	Verdicts
Annex H Table H.1	**Breaking strength, in N**	MS ISO 10545-4:2003	⩾1100	1353	P
	Modulus of rupture, in N/mm² Not applicable to tiles with breaking strength ≥ 3000N	MS ISO 10545-4:2003	Minimum 30	30.8	P
			Individual minimum 27	29.6~31.8	P
	Abrasion resistance Resistance to surface abrasion of glazed tiles intended for use on floors	MS ISO 10545-7:2001	Report abrasion class	Class 3	—
			Report cycles passed	750	—
	Crazing resistance: glazed tiles	MS ISO 10545-11:2001	Required	Fully resistance	P
	Chemical properties				
	Resistance to chemicals				
	Resistance to household chemicals and swimming pool salts				
	a) Household chemicals: Ammonium chloride, 100g/L	MS ISO 10545-13:2018	Minimum B	A	P
	b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L	MS ISO 10545-13:2018	Minimum B	A	P
	Resistance to low concentrations of acids and alkalis				
	a) Hydrochloric acid solution, 3% (v/v)	MS ISO 10545-13:2018	Manufacturer to state classification	LA	—
	b) Citric acid solution, 100g/L	MS ISO 10545-13:2018	Manufacturer to state classification	LA	—
	c) Potassium hydroxide, 30g/L	MS ISO 10545-13:2018	Manufacturer to state classification	LA	—
	Resistance to high concentrations of acids and alkalis				
	a) Hydrochloric acid solution, 18% (v/v)	MS ISO 10545-13:2018	Test method available	HA	—
	b) Lactic acid, 5 % (v/v)	MS ISO 10545-13:2018	Test method available	HA	—
	c) Potassium hydroxide, 100g/L	MS ISO 10545-13:2018	Test method available	HA	—
	Resistance to staining				
	a) Green staining agent in light oil	MS ISO 10545-14:2018	Minimum Class 3	Class 5	P
	b) Red staining agent in light oil	MS ISO 10545-14:2018	Minimum Class 3	Class 5	P
	c) Iodine, 13g/L solution in alcohol	MS ISO 10545-14:2018	Minimum Class 3	Class 5	P
	d) Olive oil	MS ISO 10545-14:2018	Minimum Class 3	Class 5	P

Possible test case verdicts
1. P(ass) : *Test item does meet the requirement.*
2. F(ail) : *Test item does not meet the requirement.*
3. —: *Verdict was not carried out.*
4. N/A : *Test case does not apply to the test item.*

*** ***
End of Test Report

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TESTING
CNAS L1401

检 验 报 告

Test Report

Product name:	Glazed polished tiles
Type/Model:	600mm×600mm×8.5mm
Client:	
Manufacturer:	
Test type:	Commission Test
Date of issue:	2022-05-23

佛 山 市 质 量 计 量 监 督 检 测 中 心

Foshan Supervision Testing Center of Quality and Metrology

国家陶瓷及水暖卫浴产品质量检验检测中心

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

(检验专用章)

扫码辨真伪

Foshan Supervision Testing Center of Quality and Metrology

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

Test Report

Product name, Type/Model, Trade mark, Grade	**Glazed polished tiles** 600mm×600mm×8.5mm ------/------	Date of manufacture/ Batch No.	------/------
		Sample No.	------
Client		Test type	Commission Test
Client Address		Sample Quantity / Method of Sample Receipt	30 PCS/ Provided by client
Manufacturer (Provided by client)		Receiving date	2022-05-06
Manufacturer address (Provided by client)		Sample Received by	Deng Kuanchang
Sample status	Pieces	Test Date	2022-05-07～ 2022-05-23
Tested according to	*GB/T4100-2015（Annex G）Ceramic Tiles Annex G Dry-pressed ceramic tiles with Low water absorption E≤0.5% Group BIa； GB 6566-2010 Limit of radionuclides in building materials*		
Test conclusion	Except the test item No.14 is not verdict, the test results comply with the requirement of the standard GB/T 4100-2015 Annex G and the type A requirement for the decorative materials of the standard GB 6566-2010. 2022-05-23 Any copy of test report is invalid without official test seal		
Note	----------		

Approved by：曹阳 Checked by：吴伟强 Tested by：吴灿辉

Lab Add：No.2, Keji West Road, Shishan, Nanhai District, Foshan, Guangdong, China

扫码辨真伪

Foshan Supervision Testing Center of Quality and Metrology

National Center of Inspection and Testing for Ceramic Sanitary and Plumbing Fixture

Test Report

Form No.: QR-CX049-01A/Ed.11.0

No.	Test Items	Unit	Technical Requirements			Test Results		Verdict
1	Size and difference	%	Length	The deviation, of the average size for each tile from the work size	±0.6	0～+0.07		Pass
		mm			Maximum ±2.0	0～+0.4		
		%	Thickness	The deviation, of the average size for each tile from the work size	±5.0	-3.2～0		
		mm			Maximum ±0.5	-0.3～0		
2	Straightness of sides	%	±0.5			-0.05～+0.06		Pass
		mm	Maximum ±1.5			-0.31～+0.35		
3	Rectangularity	%	±0.5			-0.04～+0.04		Pass
		mm	Maximum ±2.0			-0.25～+0.26		
4	Surface flatness	%	Edge curvature		±0.5	-0.04～+0.06		Pass
		mm			Maximum ±2.0	-0.25～+0.33		
		%	Warpage		±0.5	-0.04～+.05		
		mm			Maximum ±2.0	-0.35～+0.43		
		%	Center curvature		±0.5	-0.03～+0.05		
		mm			Maximum ±2.0	-0.28～+0.41		
5	Surface quality	-----	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles.			Conformed		Pass
6	Water absorption	%	Average maximum 0.5 Individual maximum 0.6			0.06 0.04～0.07		Pass
7	Breaking strength	N	When the thickness≥7.5mm, the mean value shall not be less than 1300			1810		Pass
8	Modulus of rupture	MPa	Average minimum 35 Individual minimum 32			41 40～44		Pass
9	Crazing resistance	-----	No crazing or peeling on the glazed surface after the crazing test.			Conformed		Pass
10	Frost resistance	------	No crack or peeling after the frost test			Conformed		Pass
11	Resistance to staining	-----	Minimum class 3			Class 5		Pass
12	Resistance to household chemicals & swimming pool salts	-----	Minimum GB			Class GA		Pass
13	Static coefficient of friction	-----	≥0.50			Dry	0.62～0.63	Pass
14	Surface abrasion	------	Report abrasion class and cycles passed			1500 cycles	Class 3	-----
15	Internal exposure index I_{Ra}	-----	Decorative materials Type A: I_{Ra}≤1.0			0.5		Type A
			Decorative materials Type B: I_{Ra}≤1.3					
	External exposure index I_r	-----	Decorative materials Type A: I_r≤1.3			0.8		
			Decorative materials Type B: I_r≤1.9					
			Decorative materials Type C: I_r≤2.8					

（The end）

Declaration

1．Report without signature of inspector, verifier and approver and “specific seal for test report” is invalid.
2．Report is invalid in case it is altered, incomplete pages, without across-page seal, duplicate without “specific seal for test report”. Report can not be partial copied without written approval.
3. Commission test report applies only for the samples received. Test results can not be improper propagated without written approval.
4. In case of any disagreement, applicant shall make a request in written form within 15 days on receiving the report; otherwise test result shall be accepted.
5. The test report is composed of cover, conclusion page, data page, declaration page.
6. Test report that issued by our lab can be verified by scanning the QR code. For any enquiry about full report content, please contact 0757-88735333, 88735222.

Add A: No.2, Keji West Road, Shishan, Nanhai District, Foshan, Guangdong, China 528225
业务电话(Tel):0757-88735333 88735222 传真(Fax)：0757-88735555

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投诉电话(Tel):0757-88735110 监察举报电话(Tel)：0757-88735122

CERAMIC TEST LAB

Slip Test Report S230015

Issue Date: 09/08/2023

Requested by:	GNS Ceramics
Address:	3 Cox Place, Glendenning
Sample number:	23965812
Sample name:	Falkirk
Sample description:	FK6001P4 FALKIRK OFF-WHITE EXTERNAL 600X600
Slider Used:	96

Test Date	09/08/2023	**Temperature (Laboratory)**	21.4°C
Pendulum Friction Tester:	Munro Stanley Portable Skid Resistance Tester S/N: 2081 Calibration Date: 3 November 2022		

Test Specimen (Unfixed)	**Pendulum Swing Results (BPN)**					**Mean (BPN) (**last 3 swings)	**Classification According to AS4586-2013**	
	1	**2**	**3**	**4**	**5**			
Tile 1	45	45	45	45	44	45	**P4**	
Tile 2	43	42	43	43	42	43		
Tile 3	47	46	47	46	46	46		
Tile 4	46	46	46	46	45	46	**SRV (BPN)**	45
Tile 5	45	45	45	45	44	45		

All samples were tested unfixed on a flat and level surface, no slope correction required.
Each tile cleaned with water and light scrubbing prior to testing. SRV= Slip Resistance Value

Testing performed in Accordance with AS4586-2013 Amd 1:2017, Appendix A Wet Pendulum Test Method with a 96 Rubber slider, conditioned with P400C paper dry, followed by 3 µm wet lapping film.
Results relate only to the items tested.

Approximate test location				
Tile 1:	**Tile 2:**	**Tile 3**:	**Tile 4:**	**Tile 5:**
X	X	X	X	X

Note: Top location based off tile directional arrow or as marked on tile.

Test Location:	Ceramic Test Lab, 175 Racecourse Rd, Rutherford, NSW, 2320 Australia		
Test Officer	Luke Crisp	**Authorised by:**	Hong Lu