

# EGO GRIGIO MATT 600x600



## Class 1 Building Product Information Requirements Self-Assessment

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Product Name: EGO GRIGIO MATT 600x600

Product Identifier: EGOGRM60

Product Description: A glazed porcelain tile with an R10 matt finish and a water absorption rate of less than 0.05%.

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## Building Code Obligations

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Code Clauses:

B2 – Durability

B2.3.1

C3 – Fire affecting areas beyond the source

D1 – Access routes

D1.3.3

E3 – Internal moisture

E3.3.2, 3.3.3, 3.3.4

G3 – Food preparation and prevention of contamination

G3.3.2

G6 – Airborne and Impact sound

G6.3.1



BPIR COMPLIANT



Scope	Use
B2 Durability	See below Suitability table.
C3 Fire	The Building Code relating to fire ratings regulation and standards become mandatory from April 2013, establishing the list of products belonging to Classes A 'No Contribution to Fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.
D1 Access Routes	Acceptable for use under D1/AS1
E3 Internal Moisture	E3 Internal Moisture (AS1 and AS2) is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed. Prevention of the creation of mould is a combination of temperature, insulation, and ventilation. Prevention of water damaging other building elements is about a complete system and installation details (i.e. Compliant and approved Waterproofing and sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information on compliant systems that meet the durability requirements of B2 that requires 15 years performance and a Producer Statement (PS3) for waterproofing.
G3 Food Preparation and Prevention from Contamination	As an Impervious and easy to clean Surface this range complies
G6 Airborne and Impact Sound	If required Tiles can form part of an acoustic system to comply with IIC and STC in conjunction with an approved third-party system.

Suitability	Residential	Light Commercial	Commercial	Industrial
Indoor Floor	✓	✓	✓	-
Indoor Walls	✓	✓	✓	✓
Outdoor Floor	✓	✓	✓	✓
Outdoor Cladding	✓	✓	✓	✓
Frost Resistant	✓	✓	✓	✓
Swimming Pool Submerged	✓	✓	✓	✓
Swimming Pool Surround	✓	✓	✓	✓
Paving	-	-	-	-
Over Underfloor Heating	✓	✓	✓	✓
Commercial Kitchen Wall	✓	✓	✓	✓
Within 1.5m of a Plumbing Fixture or Fitting	✓	✓	✓	✓

Specifications	
CODE	EGOGRM60
TILE SIZE (mm)	600x600
THICKNESS (mm)	9.5
SUITABILITY	Floor/Wall
FINISH	Matt
CLASS	PEI Class 4: Moderate to heavy traffic, All residential as well as medium commercial and light industrial.
RECTIFIED	Yes
WEIGHT (kg)	7.73
COEFFICIENT OF FRICTION	0.49
SLIP RATING	R10
TILES PER BOX	4
M2 PER BOX	1.44
PATTERNS/FACES	20
COUNTRY OF ORIGIN	China

## Building Code Clause and Contribution

### **B2 - Durability**

Compliance with B2 Durability is about providing evidence that the product will meet the relevant durability life in the context of the environment in which it will be located.

The building code sets out the framework for establishing the relevant durability life of building elements based on a number of criteria. B2/AS1 provides a decision tree to establish the relevant durability for common building materials in different circumstances.

Having determined the durability life of the product, the next step is to determine if the product, when exposed to the environment, will continue to perform for the relevant period. A key tool which a product supplier can consider in claiming compliance is limiting the environment in which the product will be exposed to (e.g. a ferrous material used in an indoor environment will last longer than it would when exposed to salt spray — in this example it would be appropriate for the supplier to condition the compliance information to use only in indoor environments).

### **C3 – Fire affecting areas beyond the source.**

C3 Fire affecting areas beyond the fire source is primarily about ensuring that fire does not spread from a fire in the building (in both vertically and horizontally) and from an adjacent building.

The prime product attribute used is the fire resistance rating (FRR) methodology. In most cases a product is combined with other products to achieve a FRR (e.g. an external wall fire rating may be formed by the combination of the external cladding, thermal insulation and the internal lining).

C/AS1 and C/AS2 set out performance criteria for buildings and in particular the FRR requirements for various types of buildings and parts of buildings. Appendix C of C/AS2 sets out test methods for the building elements involved in spread of fire. Appendix B of C/AS2 sets out performance criteria for sprinkler systems while Appendix A sets out criteria for fire safety systems such as alarms and hydrants.

Note – this building product is not subject to a warning or ban under section 26 of the Building Act 2004

**D1 – Access routes**

For D1 access routes, in most cases product-related compliance for access routes are slip resistance for floors and the shapes/locations etc of handrails. The Acceptable Solution for access D1/AS1 and NZS 4121:2001 provide good information on compliance for products on access routes.

**E3 – Internal Moisture**

E3 Internal Moisture is about ensuring that moisture created within the building does not lead to mould or create damage to adjacent buildings or structural elements in the building in which it is installed. Prevention of the creation of mould is a combination of temperature, insulation and ventilation. Prevention of water damaging other building elements is mainly about installation details (i.e. sealing joints) as well as impervious products. E3/AS1 provides some useful design details, albeit without much product material information.

**G3 – Food preparation and prevention of contamination**

G3 Food preparation and prevention from contamination for a product (such as a kitchen bench) is mainly associated with being easily cleaned and impervious.

G3/AS1 provides some general design details for food preparation areas but has no referenced product standards, although the document does state some acceptable materials used for surfaces. Compliance with G3/AS1 is not mandatory but provides a good benchmark for compliance.

**G6 – Airborne and Impact Sound**

For a product, G6 Airborne and impact sound is generally about systems which are designed to work together to achieve the necessary sound attenuation.

The code itself at G6.3.2 sets a quantifiable performance level: “The Sound Transmission Class of walls, floors and ceilings, shall be no less than 55” and G6.3.2 sets the impact insulation class of floors shall be no less than 55. The Acceptable Solution G6/AS1 sets out the transmission and impact insulation class of common wall systems. G6/VM1 sets out test methodologies where the details do not match those of G6/AS1.

Manufacturer Details:

Tile Warehouse Approved



Importer Details:

Tile Warehouse Limited

Address: 286 Church Street, Onehunga, AKL 1061

NZBN: 9429041069448

Website: [www.tilewarehouse.co.nz](http://www.tilewarehouse.co.nz)

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检测  
TESTING  
CNAS L1978 190000122473



# 检测报告

## TEST REPORT

报告编号:  
REPORT NO.: 25202000591

样品名称:  
NAME OF SAMPLE: 仿古砖 (GTI, YNVI, YGI)  
RUSTIC TILES

委托单位:  
APPLICANT: 广东欧文莱陶瓷有限公司  
GUANGDONG OVERLAND CERAMICS CO. LTD

检验日期:  
DATE OF TEST: 19/03/2020 - 31/03/2020 (dd/mm/yy)

国家建筑卫生陶瓷检测重点实验室  
STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE  
佛山海关综合技术中心  
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

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样品名称 Name of sample	仿古砖 RUSTIC TILES	名义尺寸 Nominal size (N)	600mm×600mm×9.5mm
表面特性 Nature of the surface	有釉砖 Glazed (GL)	工作尺寸 Work size (Sw)	600mm×600mm×9.5mm
类别 Group	B I a 类, 磨边砖 Group B I a, rectified tiles	样品描述 Description of Samples	样品完好, 适合测试 The samples are sound, intact and fit for test.
样品标记 Mark of samples	—	样品数量 Quantity of samples	4 箱 4 Boxes
委托单位 Applicant	广东欧文莱陶瓷有限公司 GUANGDONG OVERLAND CERAMICS CO. LTD	委托单位地址 Address of applicant	佛山 三水 左田 ZUOTIAN SANSHUI FOSHAN GUANGDONG
委托单位电话 Telephone of applicant	86-18928568825	委托单位传真 Fax of Applicant	—
样品来源 Source of Samples	委托单位自送样品 Samples selected by applicant	接样日期 Received on	18/03/2020
检验依据 Test Standard	1. ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking Annex G Dry-pressed ceramic tiles with low water absorption $E_w \leq 0.5\%$ Group B I a 2. GB 6566-2010 《建筑材料放射性核素限量》 3. DIN 51130:2014 Testing of floor coverings – Determination of the anti-slip property – Workrooms and fields of activities with slip danger, walking method – Ramp test 4. ANSI A326.3-2017 American National Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials		
检验结论 Conclusion of Test	1. 样品经检验, 所检验项目的检验结果符合 ISO 13006:2018 标准中附录 G 的规定。 The results conform to the requirement of Annex G of standard ISO 13006:2018 with respect to the test items. 2. 样品经检验, 检验结果符合 GB 6566-2010 标准中 A 类装饰装修材料要求。 The results conform to the requirement of Class A decorative materials of standard GB 6566-2010 3. 防滑性能的检验结果见报告第 8 页。 The test result of slip resistance and Dynamic coefficient of friction see Page 8.		
检验单位盖章 Stamp of Test Unit	 日期: 03/04/2020 Date:	检验单位联系方式 Address of Test Unit	地址: 广东省佛山市禅城区魁奇一路澜石(国际)金属交易中心十八座二楼 Address: 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqi Road, Chancheng District, Foshan, Guangdong, China (528000) 电话 (Tel): 86-757-83960558 86-757-83827991 传真 (Fax): 86-757-83827971 邮箱 (E-mail): fsiqtc@163.com 网址 (url): http://www.fsiqtc.com/
声明 Notes	1. 我们已尽所知所能实施上述检验, 不能因签发本报告而免除有关各方根据合同和法律所承担的责任和义务。 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. 未经本实验室书面许可, 不得部分复制本报告。 This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3. 本报告仅是样品的检测结果。 The results in this report apply to the samples only. 4. 本报告所述的样品信息为委托单位自行声明, 实验室不负责其真实性。 The sample information are declared by applicant, and laboratory is not responsible for the authenticity.		

检验 Tested by 杨明 审核 Inspected by 李其 批准 Approved by 肖恩

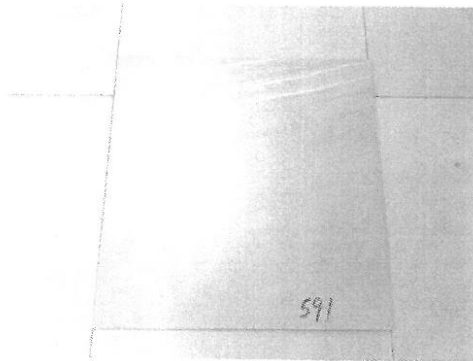
佛山海关综合技术中心  
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS

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样品照片  
Photo of Samples



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ISO 13006:2018 Ceramic tiles -- Definitions, classification, characteristics and marking					
条款 Clause	性能 Properties	检验方法 Test Method	要求 Requirements	检验结果 Results	判定 Verdicts
附录 G Annex G Table (G)	<b>尺寸和表面质量</b> Dimensions and surface quality				
	<b>长度和宽度</b> Length and Width				
	每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation of the average size for each tile (4 sides) from the work size	ISO10545-2:2018	+0.6%	-0.07%~-0.04%	P
			±2.0mm	-0.4mm~-0.2mm	P
	<b>厚度</b> Thickness				
	每块砖厚度的平均值相对于工作尺寸的最大允许偏差 The deviation of the average thickness of each tile from the work size thickness	ISO10545-2:2018	±5%	-1.6%~-0.5%	P
			±0.5mm	-0.2mm~0	P
	<b>边直度</b> Straightness of sides				
	相对于工作尺寸的最大允许偏差 The maximum deviation from straightness related to the corresponding work sizes	ISO10545-2:2018	±0.5%	-0.01%~+0.01%	P
			±1.5mm	-0.1mm~+0.1mm	P
	<b>直角度</b> Rectangularity				
	相对于工作尺寸的最大允许偏差 The maximum deviation from Rectangularity related to the corresponding work sizes	ISO10545-2:2018	±0.5%	+0.14%~+0.18%	P
		±2.0mm	+0.8mm~+1.1mm	P	
<b>表面平整度: 最大允许偏差</b> Surface flatness: The maximum deviation from flatness					
a) 对于由工作尺寸计算的对角线的中心弯曲度 a) centre curvature, related to diagonal calculated from the work size:					
	ISO10545-2:2018	±0.5%	-0.04%~-0.03%	P	
		±2.0mm	-0.4mm~-0.2mm	P	
b) 对于由工作尺寸计算的边弯曲度 b) edge curvature, related to the corresponding work sizes:					
	ISO10545-2:2018	±0.5%	-0.10%~-0.07%	P	
		±2.0mm	-0.6mm~-0.4mm	P	
c) 对于由于工作尺寸计算的对角线的翘曲度 c) warpage, related to diagonal calculated from the work size.					
	ISO10545-2:2018	±0.5%	+0.04%~+0.07%	P	
		±2.0mm	+0.3mm~+0.6mm	P	
<b>表面质量</b> Surface quality					
	ISO10545-2:2018	至少有 95% 的砖其主要区域无明显缺陷 A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P



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ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking					
条款 Clause	性能 Properties	检验方法 Test Method	要求 Requirements	检验结果 Results	判定 Verdicts
物理性能 Physical properties					
附录 G 表 G.1 Annex G Table G.1	吸水率 质量分数 Water absorption Percent mass fraction	ISO 10545-3:2018	$E_k \leq 0.5\%$	0.05%	P
			单个值不大于 0.6% Individual maximum 0.6%	0.04%-0.06%	P
	破坏强度/N Breaking strength, in N	ISO 10545-4:2019	$\geq 1300$	2126	P
	断裂模数/(N/mm <sup>2</sup> ) Modulus of rupture, in N/mm <sup>2</sup> 不适用于破坏强度 $\geq 3000$ N 的陶瓷砖 Not applicable to tiles with breaking strength $\geq 3000$ N	ISO 10545-4:2019	平均值 $\geq 35$ Minimum 35	40.1	P
			单个值 $\geq 32$ Individual minimum 32	37.4-41.8	P
	抗冲击: 恢复系数 Impact resistance: Coefficient of restitution (COR)	ISO 10545-5:1996/Cor.1:1997	报告检验结果 Test method available	0.87	—
	耐磨性 Abrasion resistance 用于地面的有釉砖的表面耐磨性 Resistance to surface abrasion of glazed tiles intended for use on floors	ISO 10545-7:1996	报告耐磨级别 Report abrasion class	4 级 Class 4	—
			报告耐磨转数 Report cycles passed	2100	—
	线性热膨胀系数: 室温~100℃ Coefficient of linear thermal expansion: from ambient temperature to 100℃	ISO 10545-8:2014	报告检验结果 Test method available	$6.2 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	—
	抗热震性 Thermal shock resistance	ISO 10545-9:2013	报告检验结果 Test method available	样品经试验, 无炸裂或裂纹 Fully resistance	—
	湿膨胀/(mm/m) Moisture expansion, in mm/m	ISO 10545-10:1995	报告检验结果 Test method available	<0.06	—
	抗釉裂性: 有釉砖 Crazing resistance: glazed tiles	ISO 10545-11:1994	应通过此项测试 Required	样品经试验, 无裂纹或剥落 Fully resistance	P
	抗冻性 Frost resistance	ISO 10545-12:1995/Cor.1:1997	应通过此项测试 Required	所有样品无裂纹或破损 Fully resistance	P
	化学性能 Chemical properties				
耐污染性 Resistance to staining					
a) 轻油中的铬绿 a) Green staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
b) 轻油中的红色污染物 b) Red staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
c) 13g/L 碘酒液 c) Iodine, 13g/L solution in alcohol	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
d) 橄榄油 d) Olive oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	

# FIRE PERFORMANCE

## BE 100% CONFIDENT IN THE PRODUCTS YOU SPECIFY



*“ The Grenfell Tower tragedy in London highlights the importance to specifiers of ensuring the products they specify (from flooring to cladding materials) are fire-resistant in order to conform to the building code relating to fire rating regulations. ”*



## TILES DO NOT REQUIRE TESTING AS THEY DO NOT CONTRIBUTE TO FIRE

In New Zealand, fire ratings are required by the Building Code to ensure that if a building is on fire, its construction materials do not significantly increase the spread or intensity of a fire. Tiles, being non-combustible, do not require testing as they do not contribute to fire. Aside from this, tiles by nature do not contain any form of petroleum-based product or wood fibres and are in essence, fire-proof and non toxic!

**The building code relating to fire rating regulations and standards became mandatory from April 2013**, establishing the list of products belonging to Classes A 'No contribution to fire' provided for in Decision 94/611/EC implementing Article 20 of Council Directive 89/106/EEC.

### WHAT YOU NEED TO KNOW:

- Because most ceramics are manufactured at over 1000 degrees celsius, they become fire-resistant and therefore an obvious choice for both commercial and residential floor and wall surfaces. For example, if a lighted cigarette is dropped on the floor, it will not do any damage to the tile. Even hot kitchen pans or skillets will not scorch or melt the surface of tile, let alone set the tile on fire.
- Tiles are non-combustible so do not catch fire, nor do they give off toxic fumes in the form of VOC's (Volatile Organic Compounds) affecting breathing, when exposed to fire.
- During the manufacture of tiles, any VOC's that may have been present in clays or binders are completely burned away which ensures the final product is inert.



A safe and simple approach with regards to Fire performance in products is to utilise tile for both **Floor** and **Wall** areas. To view latest styles and designs to suit Commercial Projects, see our tile and stone range; <https://www.tilewarehouse.co.nz/tile-stone-range/>