

European
Ceramics

GRACE O RANGE

Product Name: **GRACE O - VARIOUS COLOUR/FINISHES**

Product Identifier: Refer to tile name and product code on paperwork/packaging

Product Description: A glazed porcelain tile and a water absorption rate of less than 0.50%.

Country Of Origin: Spain

Building Code Obligations

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



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

Manufacturer Details:
European Ceramics Approved
BPIR COMPLIANT

Importer Details:
European Ceramic Tiles Ltd
Address: 7A Cowley Place, Rosedale, AKL 0632
NZBN: 9429037294571
Website: euroceramics.co.nz

Scope	Use
B2 Durability	See below suitability table
C3 Fire	The Building Code relating to fire ratings regulation & 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	Refer to slip resistance documentation for all Access routes classifications D1/AS1 for above range.
E3 Internal Moisture	Under E3 Tiles installed over a waterproof membrane using a nonporous grouting system, are an acceptable solution.
G3 Food Preparation & Prevention from Contamination	As an impervious and easy to clean surface, this range complies.
G6 Airborne & Impact Sound	If required, tiles can form part of an acoustic system to comply with IIC & STC in conjunction with an approved third-party system.

<i>Suitability *</i>	<i>Residential</i>	<i>Light Commercial</i>	<i>Commercial</i>
Indoor Floor			
Indoor Walls	*	*	*
Outdoor Cladding			
Frost Resistant	*	*	*
Swimming Pool Submerged			
Swimming Pool Surround			
Paving/External			
Over Underfloor Heating			
Kitchen wall	*	*	*
Within 1.5m of a Plumbing Fixture or Fitting			

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Building Code References

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.

D1 – Access routes

For D1 access routes, in most cases product-related compliance for access routes is 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.

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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.

Technical Information

Technical Features













TECHNICAL FEATURES FOR DRY-PRESSED CERAMIC TILES WITH WATER ABSORPTION BIII ($E_w > 10\%$) CARACTERÍSTICAS TÉCNICAS PARA LAS BALDOSAS CERÁMICAS PRENSADAS EN SECO CON ABSORCIÓN DE AGUA BIII ($E_w > 10\%$)		
FEATURES / CARACTERÍSTICAS	SPECIFICATION / ESPECIFICACIÓN	NORMA
 Dimensional Features	(W 74 mm +/- 0,75 mm x 300 mm +/- 0,5 %) GL	UNE-EN ISO 10545-2:1998
 Water absorption	>10%	UNE-EN ISO 10545-3:1997
 Modulus of rupture and breaking strength	Minimum 15 N/mm ² Individual Minimum 12 N/mm ²	UNE-EN ISO 10545-4:2012
 Crazing resistance	Pass	UNE-EN ISO 10545-11:1997
 Household products resistance	GA	UNE-EN ISO 10545-13:1998
 Chemical resistance	GHA	UNE-EN ISO 10545-13:1998
 Stain resistance	5	UNE-EN ISO 10545-14:1998

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GRACE | Packing

			KG 	M2 		M2 
Modelo	Formato (cm)	Piezas / Caja	Kg / Caja	m2 / Caja	Cajas / Palet	m2 / Palet
GRACE GLOSS	7,5x30	20	6,951	0,444	132	58,608
GRACE MATT	7,5x30	22	7,116	0,488	132	64,416
GRACE O GLOSS	7,5x30	20	6,697	0,444	132	58,608
GRACE O MATT	7,5x30	22	6,727	0,488	132	64,416
ROUDED EDGE	1,1x30	10	0,394	3,005 m	230	691,15 m

			LB 	FT2 		FT2 
Model	Format (in)	Pieces / Box	Lb/ box	sq ft / Box	Boxes / Pallet	sq ft / Pallet
GRACE GLOSS	3"x12"	20	15.324	4.779	132	630.828
GRACE MATT	3"x12"	22	15.688	5.253	132	693.396
GRACE O GLOSS	3"x12"	20	14.764	4.779	132	630.828
GRACE O MATT	3"x12"	22	14.831	5.253	132	693.396
ROUNDED EDGE	0.43"x12"	10	0.869	9.859 ft	230	2267.57 ft

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Fire Resistance

The building code relating to fire rating regulations and standards requires specifiers to provide documentation such as fire certificates for materials used in construction.

Ceramics are in itself a fire-resistant material, mostly being manufactured at over 1200 degrees Celsius. Testing and providing such certification are therefore not relevant to the Ceramics industry.

Ceramic and Porcelain tiles are an inert material, and therefore non-combustible. They do not release fumes or toxic gases in the event of a fire. Porcelain tiles contain no sealants, waxes or other chemicals that could release VOC's into the environment. Ceramics do not pose a risk of spreading or intensifying a fire therefore there is no testing required as they do not contribute to a fire.

EXTRAORDINARY EFFECTS DURING USE PHASE:

Fire: According to /EN 13501-1:2007+A1:2009/, ceramic tiles can be classified as A1 class of fire resistance rating, because they do not contribute to fire.

It has been demonstrated that the coating of the ceramic tiles, in case of fire, reduces heat on them and thus the risk of collapse.

Water: Ceramic tiles cannot react with water because they are an insoluble material.

For further information on the physio-characteristics of fire resistance for tiles please refer to the Technical Documents section on euroceramics.co.nz

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