



European  
Ceramics

## TERRAE RANGE

Product Name: **TERRAE - 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: Italy

### *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

<b>Scope</b>	<b>Use</b>
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.

<b><i>Suitability *</i></b>	<b><i>Residential</i></b>	<b><i>Light Commercial</i></b>	<b><i>Commercial</i></b>
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

### INFORMAZIONI TECNICHE - TECHNICAL INFORMATION

#### GRES PORCELLANATO SMALTATO COLORATO IN MASSA COLORED BODY PORCELAIN TILE

#### CLASS EN 14411 - ISO 13006 Bia UGL

Caratteristiche Features	Unità di misura Unit of measurement	Valore medio Average value	Valore prescritto Required standard	Metodo di prova Test method
Dimensione lati Dimensions - Length and Width	%	conforme according	± 0,6 (max ± 2 mm)	EN ISO 10545-2
Rettilinearità dei lati Sides' straightness	%	conforme according	± 0,5 (max ± 1,5 mm)	EN ISO 10545-2
Ortogonalità dei lati Sides' orthogonality	%	conforme according	± 0,5 (max ± 2 mm)	EN ISO 10545-2
Planarità Flatness	%	conforme according	± 0,5 (max ± 2 mm)	EN ISO 10545-2
Spessore Thickness	%	conforme according	± 5 (max ± 0,5 mm)	EN ISO 10545-2
Assorbimento d' acqua Water absorption	%	conforme according	≤ 0,5	EN ISO 10545-3
Sforzo di Rottura Breaking strength	N	conforme according	≥ 1300 se spess. ≥ 7,5 mm ≥ 700 se spess. < 7,5 mm	EN ISO 10545-4
Modulo di rottura Modulus of rupture	N/mm <sup>2</sup>	conforme according	≥ 35	EN ISO 10545-4
Resistenza all' abrasione Resistance to abrasion	mm <sup>3</sup>	conforme according	≤ 175	EN ISO 10545-7
Coefficiente di dilatazione termica lineare Coefficient of linear thermal - expansion	10 <sup>-6</sup> /°C	δ = 7,0	metodo disponibile method available	EN ISO 10545-8
Resistenza agli sbalzi termici Resistance to thermal shock		resiste resists	metodo disponibile method available	EN ISO 10545-9
Resistenza alle macchie Stain resistance		4-5	min 3	EN ISO 10545-14
Resistenza all'attacco chimico Chemical resistance		A	min B	EN ISO 10545-13
Resistenza agli acidi e alle basi a bassa concentrazione Resistant to acid and low concentration bases		LA	metodo disponibile method available	EN ISO 10545-13
Resistenza al gelo Frost resistance		resiste resists	richiesta required	EN ISO 10545-12
Stabilità dei colori Color stability		stabile stable	metodo disponibile method available	DIN 51094
Resistenza allo scivolamento Slip resistance			R10 R11	DIN 51130
		DCOF wet condition	≥ 0,42	ANSI A 137.1

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**PESI, MISURE E CONTENUTO DEI COLLI**

WEIGHT, SIZE AND CONTENTS OF THE PACKING POIDS, DIMENSIONS

prodotto product		spessore thickness	pezzi/scatola pieces/box	mq/scatola sq.mt./box	kg/scatola weight/box	scatole/pallet box/pallet	mq/pallet sq.mt./pallet	kg/pallet weight/pallet
90x90 - 35,4"x35,4"		10	2	1,62	33,40	20	32,40	683
90x90 - 35,4"x35,4"	R11	10	2	1,62	33,40	20	32,40	683
60x120 - 23,6"x47,2"		10	2	1,44	31,00	36	51,84	1131
60x60 - 23,6"x23,6"		10	4	1,44	31,00	30	43,20	945
7,5x30 - 2,9"x11,8"		10	26	0,58	11,65	60	35,10	714
60x120 - 23,6"x47,2"	decoro giada	10	2	1,44	31,00	36	51,84	1131
90x90 - 35,4"x35,4"	decoro bacchette legno	10	2	-	-	-	-	-
60x60 - 23,6"x23,6"	decoro bacchette rame	10	2	-	-	-	-	-
60x60 - 23,6"x23,6"	decoro arco rame	10	2	-	-	-	-	-
60x60 - 23,6"x23,6"	decoro linea rame	10	2	-	-	-	-	-
modulo A	decoro geo	10	4	0,64	-	30	19,11	-
modulo B	decoro geo	10	4	0,39	-	45	17,54	-
30x30 - 11,8"x11,8"	mosaico intreccio	10	4	-	-	-	-	-
22x19 - 8,6"x7,5"	esagona	10	21	-	-	45	-	-
9x60 - 3,5"x23,6"	battiscopa	10	12	-	-	-	-	-
7x90 - 2,8"x35,4"	battiscopa	10	6	-	-	-	-	-

## 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](http://euroceramics.co.nz)**

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