



European  
Ceramics

## ALTEREGO RANGE

Product Name: **ALTEREGO - VARIOUS COLOURS/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](http://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.

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# Technical Information

## CARATTERISTICHE TECNICHE TECHNICAL FEATURES

### GRES PORCELLANATO A MASSA COLORATA - FULL BODY COLORED PORCELAIN

SUPERFICIE NATURALE CLASSIFICAZIONE SECONDO NORME UNI EN 14411 (ISO 13006) ALLEGATO G-Gruppo B1a UGL  
NATURAL SURFACE CLASSIFICATION IN ACCORDANCE WITH UNI EN 14411 (ISO 13006) ANNEX G-Group B1a UGL

PROPRIETÀ FISICO-CHIMICHE PHYSICAL-CHEMICAL PROPERTIES	NORMA NORM	VALORE PRESCRITTO DALLE NORME VALUE PRESCRIBED FROM THE NORMS	VALORE * VALUE ALTEREGO NAT.	VALORE * VALUE ALTEREGO R11
LUNGHEZZA E LARGHEZZA DIMENSIONE MEDIA DI OGNI PIASTRELLA LENGTH AND WIDTH OF THE AVERAGE-SIZES TILE	UNI EN ISO 10545/2	± 0,6%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
SPESSORE THICKNESS	UNI EN ISO 10545/2	± 5%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
RETTILINEARITÀ SPIGOLI WARRAGES OF EDGES	UNI EN ISO 10545/2	± 0,5%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
ORTOGONALITÀ WEDGING	UNI EN ISO 10545/2	± 0,6%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
PLANARITÀ FLATNESS	UNI EN ISO 10545/2	± 0,5%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
ASSORBIMENTO D'ACQUA WATER ABSORPTION	UNI EN ISO 10545/3	E < 0,5%	CONFORME ACCORDING TO	CONFORME ACCORDING TO
RESISTENZA ALLA FLESSIONE BENDING STRENGTH	UNI EN ISO 10545/4	≥ 35 N/mm²	CONFORME ACCORDING TO	CONFORME ACCORDING TO
FORZA DI ROTTURA BREAKING STRENGTH	UNI EN ISO 10545/4	< 7,5 mm : ≥ 700 N > 7,5 mm : ≥ 1300 N	CONFORME ACCORDING TO	CONFORME ACCORDING TO
RESISTENZA ALL'ABRAZIONE PROFONDA DELLE PIASTRELLE NON SMALTATE RESISTANCE TO DEEP ABRASION OF UNGLAZED TILES	ISO 10545/6	< 175 mm³	CONFORME ACCORDING TO	CONFORME ACCORDING TO
RESISTENZA ALL'ABRAZIONE SUPERFICIALE PER PIASTRELLE SMALTATE ABRASION RESISTANCE FOR GLAZED TILES	ISO 10545/7	IN FUNZIONE DELLA DESTINAZIONE D'USO ACCORDING TO THE DESTINATION OF FINAL USE	-	-
RESISTENZA AGLI SBALZI TERMICI THERMAL SHOCK RESISTANCE	UNI EN ISO 10545/9	RICHIESTA REQUIRED	RESISTE RESISTS	RESISTE RESISTS
RESISTENZA AL GELO FROST RESISTANCE	UNI EN ISO 10545/12	RICHIESTA REQUIRED	INGELIVO FROST PROOF	INGELIVO FROST PROOF
RESISTENZA ALL'ATTACCO CHIMICO CHEMICAL RESISTANCE	UNI EN ISO 10545/13	MIN UB	CONFORME ACCORDING TO	CONFORME ACCORDING TO
		MIN GB	-	-
RESISTENZA ALLE MACCHIE RESISTANCE TO STAINING	UNI EN ISO 10545/14	UGL VALORE DA DICHIARARE - VALUE TO DECLARE	CONFORME ACCORDING TO	CONFORME ACCORDING TO
		CL CLASSE 3 MIN	-	-
RESISTENZA ALLO SCIVOLAMENTO SLIP RESISTANCE	B.C.R.A. C.A.	μ 0,19 SCIVOLOSITÀ PERICOLOSA - DANGEROUSLY SLIPPERY 0,20 < μ < 0,39 SCIVOLOSITÀ ECCESSIVA - EXCESSIVELY SLIPPERY 0,40 < μ < 0,74 ATTRITO SODDISFACENTE - SATISFACTORY GRIP μ 0,75 ATTRITO ECCELLENTE - EXCELLENT GRIP	> 0,40	> 0,40
	B.C.R.A. G.B.		> 0,40	> 0,40
	ASTM C 1028 (S.C.O.F.)	SUP RESISTANT (> 0,60)	> 0,60 DRY > 0,60 WET	> 0,60 DRY > 0,60 WET
	DIN 51130	IN FUNZIONE DELL'AMBIENTE O DELLA ZONA DI LAVORO BASING ON THE ENVIRONMENT OR THE WORKING AREA	R10	R11
	DIN 51097	-	A+B	A+B+C
	ANSI A 137-1:2012 (D.C.O.F.)	> 0,42	> 0,42	> 0,42
	AS/NZS 4580:2013	SRV : 35 - 44 SRV : 45 - 54	- -	- P4 WET
	BS 7976 - 2:2002	> 30	-	+30 WET

\* Valori medi di produzione / Average production values

VARIAZIONE CROMATICA SHADE VARIATION	V2	 aspetto uniforme uniform appearance V1	 lieve variazione slight variation V2	 moderata variazione moderate variation V3	 forte variazione substantial variation V4
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## IMBALLI - PACKAGING

F.to nominale Nominal size	Finitura Finish	Spessore Thickness	F.to reale (mm) Work size (mm)	Imballo Packing	Pz/Scat. Pcs/Box	Mq/Scat. Sqm/Box	Kg/Scat. Kg/Box	Scat./Imb. Box/Packing	Pz Totale Pcs Total	Mq totale Sqm total	Kg Imb. Kg Packing	Kg Totale Kg Total
120x280 48"x112"	rett.	6	1194x2800	Cassa Crate	-	-	-	-	20	67,20	95	1.103
				Cavalletto T-Frame T-Frame rack pallet	-	-	-	-	36	120,96	120	1.935
				Cavalletto A-Frame A-Frame rack pallet	-	-	-	-	36	120,96	140	1.955
				Cavalletto container Container Rack pallet	-	-	-	-	36	120,96	165	1.980
120x120 48"x48"	rett.	8,5	1194x1194	Pallet con sponde Pallet with sides	2	2,88	56,10	18	36	51,84	40	1.050
60x120 24"x48"	rett.	8,5	596x1194	pallet	2	1,44	28,00	30	60	43,20	20	860
20x120 8"x24"	rett.	8,5	197,3x1194	pallet	6	1,44	28,00	36	216	51,84	20	1.028
5x120 2"x48"	rett.	8,5	48x1194	pallet	6	0,36	7,00	63	378	22,68	20	461
60x60 24"x24"	rett.	8,5	596x596	pallet	3	1,08	21,00	40	120	43,20	20	860
10x60 4"x24"	rett.	8,5	97,6x596	pallet	12	0,72	14,00	50	600	36,00	20	720
30x30 12"x12"	rett.	8,5	297x297	pallet	13	1,17	22,80	40	520	46,80	20	932

L'unità minima di vendita per tutti gli articoli (fondi, decori e pezzi speciali) è la scatola completa.  
The minimum sales quantity for all items (plain tiles, decorations and special trims) is one full box.

I dati relativi agli imballi sono aggiornati al momento della stampa del catalogo e pertanto possono subire variazioni nel corso del tempo.  
Data referring to packaging have been update at time of printing; the actual data may be slightly different.

Pezzi speciali e decori per effetto delle lavorazioni, possono presentare variazioni di tonalità.  
Due to working process special trims and decors, may show variation in tonality.

## 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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