

European
Ceramics

AMBIENTI RANGE

Product Name: **AMBIENTI - 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

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.

Suitability *	Residential	Light Commercial	Commercial	Industrial
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

technical characteristics*

caratteristiche tecniche · caractéristiques techniques · technische daten · características técnicas

technical characteristic caratteristica tecnica caractéristique technique Technische eigenschaft característica técnica	reference standard norma di riferimento norme de reference Besugsnorm norma de referencia	value required valore richiesto valeur requise Geforderter wert valor requerido
water absorption (E) assorbimento d'acqua (E) absorption d'eau (E) Wasseraufnahme (E) absorción de agua (E)	 ISO 10545-3	≤ 0,5%
breaking strength (S) forza di rottura (S) contrainte de rupture (S) Bruchfestigkeit (S) fuerza de rotura (S)	 ISO 10545-4	thickness ≥ 7,5mm ≥ 1300 N thickness < 7,5mm ≥ 700 N
bending strength (R) resistenza alla flessione (R) résistance a la flexion (R) Biegefestigkeit (R) resistencia a la flexión (R)	 ISO 10545-4	≥ 35 N/mm ²
deep abrasion resistance resistenza all'abrasione profonda resistance a l'usure en profondeur Tiefenabrieb resistencia a la abrasión profunda	 ISO 10545-6	≤ 175 mm ³
resistance to abrasion PEI resistenza all'abrasione superficiale PEI résistance à l'abrasion PEI Widerständigkeit gegen Oberflächenabnutzung PEI resistencia a la abrasión superficial PEI	 ISO 10545-7	according to producer's secondo i dati del costruttore selon les éléments du constructeur laut Herstellerangaben según los datos del fabricante
thermal shock resistance resistenza agli sbalzi termici résistance aux écarts de température Temperaturwechselbeständigkeit resistencia al choque térmico	 ISO 10545-9	no sample must show visible defects nessun campione deve presentare difetti visibili aucun échantillon ne doit présenter des défauts visibles Kein Exemplar soll sichtbare Schäden aufweisen ninguna muestra debe presentar defectos visibles
frost resistance resistenza al gelo résistance au gel Frostbeständigkeit resistencia al hielo	 ISO 10545-12	resistant résistants widerstandsfähig resistentes
anti-slip resistance grade fattore di resistenza alla scivolosità gré de résistance à la glissance Rutschfestigkeit factor de resistencia al deslizamiento	 DIN EN 16165 - ANNEX B	according to producer's secondo i dati del costruttore selon les éléments du constructeur laut Herstellerangaben según los datos del fabricante
slip resistance factor in the presence of water and bare feet fattore di resistenza alla scivolosità in presenza di acqua a piedi nudi facteur de résistance à la glissance pieds nus en présence d'eau Rutschfestigkeit im Barfußbereich factor de resistencia al deslizamiento en presencia de agua con pies descalzos	 DIN EN 16165 - ANNEX A	according to producer's secondo i dati del costruttore selon les éléments du constructeur laut Angaben des Herstellers según los datos del fabricante
size characteristics caratteristiche dimensionali caractéristiques dimensionelle Måhhaltigkeit características dimensionales	 ISO 10545-2	length and width lunghezza/larghezza / longueur/longeur / Länge und Breite / longitud y anchura ± 0,6%(max±2mm) thickness spessore / épaisseur / Stärke / espesor ± 5,0%(max±0,5mm) wedging ortogonalità / orthogonalité / Rechtwinkligkeit / ortogonalidad ± 0,5%(max±2mm) flatness planarità / planéité / Ebenfächigkeit / planaridad ± 0,5%(max±2mm)
linear thermal expansion coefficient coefficiente di dilatazione termica lineare coefficient de expansion térmica linear Wärmeausdehnungskoeffizient coeficiente de dilatación térmica lineal	 ISO 10545-8	test method available metodo di prova disponibile méthode d'essai disponible Verfügbare Prüfmethode método de ensayo disponible
resistance to chemicals resistenza ai prodotti chimici résistance aux produits chimiques Beständigkeit gegen Chemikalien resistencia química	 ISO 10545-13	min. B
stain resistance resistenza alle macchie résistance aux taches Fleckenbeständigkeit resistencia a las manchas	 ISO 10545-14	classe ≥ 3
crazing resistance resistenza al cavillo résistance aux craquelures haarriss-Beständigkeit resistencia al cuarteado	 ISO 10545-11	

* Following the EN 14411 (ISO 13006) norms and test cases UNI ISO 10545 appendix G for ceramic tiles dry pressed with low water absorption ESO,5% group Bla.

Secondo la norma EN 14411 (ISO 13006) metodi di prova UNI EN ISO 10545 Appendice G per piastrelle ceramiche pressate a secco a basso assorbimento d'acqua ESO,5% Gruppo Bla.

Selon les normes EN 14411 (ISO 13006) méthodes d'essais UNI EN ISO 10545 Appendice G pour carreaux céramiques pressés à sec, à basse absorption d'eau ESO,5% groupe Bla.

Nach der Norm EN 14411 (ISO 13006) Prüfmethode UNI EN ISO 10545 Zulage G für trockenengepresste Fliesen mit niedriger Wasseraufnahme ESO,5% Gruppo Bla.

Según la norma EN 14411 (ISO 13006) métodos de ensayo UNI EN ISO 10545 Apéndice G para baldosas cerámicas presadas en seco con baja absorción de agua ESO,5% Grupo Bla.

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80,2x80,2 ret 31 ^{1/2} x31 ^{1/2}	30x30 12"x12"	30x60,4 12"x24"	7,5x60,4 3"x24"	30x60,4 12"x24"						
80x80 ret 31 ^{1/2} x31 ^{1/2} 20mm	mosaico T36	wall	battiscopa	step*						
greige nat										
nat	A54	A21	A33	A16	A28	A89	B06	B06	P07	P18
twenty										
perla nat	A54	A21	A33	A16	A28		B06	B06	P07	P18
mm	9	9	9	8,2	8,2	20	8,2	8,2	8,2	8,2
pz/box	2	4	4	8	8	1	11	4	16	8
m ² /box	1,29	1,46	1,44	1,45	1,44	0,64	1,00	0,72		
kg/m ²	17,00	17,00	17,00	16,20	16,20	49,00	16,20	16,20		
box/plt	42	32	32	40	40	40	30	20		
m ² /plt	54,18	46,72	46,08	58,00	57,60	25,60	30,00	14,40		
kg/plt	946	819	808	965	958	1279	511	258		

* Minimum lot per order 48pcs
 Lotto minimo per ordine 48pz
 Lot minimum par commande 48pcs
 Minimumbestellmenge 48 St.
 Lota mínimo por pedido 48 pzs

Mosaic on net to be used for wall or tiling too.
 Mosaico su rete utilizzabile anche per rivestimento.
 Netzwerklebets Mosak, welches sich auch als Wandverkleidung eignet.
 Mosaïque sur support utilisable également pour le revêtement.
 Mosaico en red utilizable también como revestimiento.

For the complete range and special pieces of 20 mm products, consult the TWENTY catalogue.
 Per la gamma completa e i pezzi speciali dei prodotti a spessore 20mm consultare il catalogo TWENTY.
 Veuillez consulter le catalogue TWENTY pour voir la gamme complète ainsi que les pièces spéciales des produits de 20 mm d'épaisseur.
 Das komplette Sortiment und die Sonderteile der 20 mm dicken Produkte finden Sie im TWENTY Katalog.
 Para la gama completa y las piezas especiales de los productos de 20 mm de espesor consultar el catálogo TWENTY.

80,2x80,2 ret 31 ^{1/2} x31 ^{1/2}	30x30 12"x12"	30x60,4 12"x24"	7,5x60,4 3"x24"	30x60,4 12"x24"						
80x80 ret 31 ^{1/2} x31 ^{1/2} 20mm	mosaico T36	wall	battiscopa	step*						
grigio nat										
nat	A54	A21	A33	A16	A28	A89	B06	B06	P07	P18
twenty										
antracite nat	A54	A21	A33	A16	A28		B06	B06	P07	P18
twenty										
mm	9	9	9	8,2	8,2	20	8,2	8,2	8,2	8,2
pz/box	2	4	4	8	8	1	11	4	16	8
m ² /box	1,29	1,46	1,44	1,45	1,44	0,64	1,00	0,72		
kg/m ²	17,00	17,00	17,00	16,20	16,20	49,00	16,20	16,20		
box/plt	42	32	32	40	40	40	30	20		
m ² /plt	54,18	46,72	46,08	58,00	57,60	25,60	30,00	14,40		
kg/plt	946	819	808	965	958	1279	511	258		

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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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