

European
Ceramics

PIETRA DI MARAIS RANGE

Product Name: **PIETRA DI MARAIS - 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.

<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

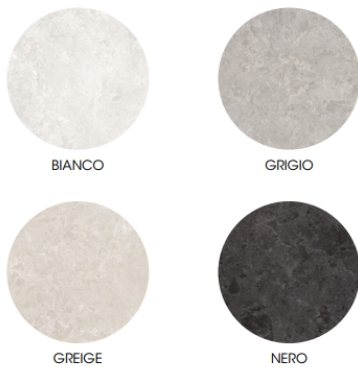


PIETRA DI MARAIS

Gres porcellanato colorato in massa · Colorbody fine porcelain stoneware



COLORI · COLOURS



FORMATI · SIZES



IMBALLI · PACKING











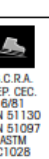
FORMATO	SPESORE	AUTOCOLO	Pcs/BOX	M ² /BOX	Kg/BOX	BOX/PALLET	M ² /PALLET	Kg/PALLET
60x120	9.5 mm	Bianco, Grigio, Greige, Nero	2	1,44 m ²	28,50	30	43,20 m ²	855
60x60	9.5 mm	Bianco, Grigio, Greige, Nero	4	1,08 m ²	21,40	40	43,20 m ²	856
60x60 R11	20 mm	Bianco, Grigio, Greige	2	0,72 m ²	31,50	32	23,04 m ²	1008
30x60	9.5 mm	Bianco, Grigio, Greige, Nero	6	1,08 m ²	21,40	40	43,20 m ²	856
Mosaiico 3x3 (30x30)	9.5 mm	Bianco, Grigio, Greige, Nero	6	0,54 m ²	-	-	-	-
Battiscopa 7x60	9.5 mm	Bianco, Grigio, Greige, Nero	15	9 ml	-	-	-	-

SVILUPPO GRAFICO · GRAPHICS DEVELOPMENT



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Caratteristiche Tecniche - ISO 13006 Technical characteristics - ISO 13006 Caractéristiques techniques - ISO 13006 Technische Daten - ISO 13006	Valore prescritto Standard requirement Valeur prescrite Geforderte Werte	Valore Standard Valeur Werte
 Lunghezza e larghezza Length and width Longueur et largeur Länge und Breite	Deviazione valore medio % rispetto a dimensione di fabbricazione Deviation of the average size for each tile from the work size (%) Écart dimensionnel moyen en % par rapport aux dimensions de fabrication Abweichung des Durchschnittswertes in % hinsichtlich der ProduktionsgröÙ	Conforme Complies Conforme Gleichmässig
	Deviazione valore medio singola piastrella rispetto al valore medio 10 campioni misurali Deviation of the average size for each tile from the average size to the 10 test specimens (%) Écart de valeur moyenne unitaire % en rapport à la valeur moyenne de 10 échantillons mesurés Abweichung des Durchschnittswertes der einzelnen Fliesen in % hinsichtlich des Durchschnitts von 10 getesteten Mustern	Conforme Complies Conforme Gleichmässig
Piastrelle esenti da difetti nel lotto % Surface quality. Tiles without defects % Carreaux sans défaut % Prozentsatz von Fliesen ohne Fehler in der Partei %	95%	Conforme Complies Conforme Gleichmässig
Rettilinearità degli spigoli Straightness of sides Rectitude des avètes Kantengeradheit	+/- 0,5%	Conforme Complies Conforme Gleichmässig
Spessore Thickness Épaisseur Stärke	+/- 5%	Conforme Complies Conforme Gleichmässig
Ortogonalità Rectangularity Orthogonalité Rechtwinkligkeit	+/- 0,5%	Conforme Complies Conforme Gleichmässig
 Assorbimento d'acqua Water absorption Absorption d'eau Wasseraufnahme	≤ 0,5% GRUPPO BIa annexe G	0,1%
 Resistenza a flessione e forza di rottura Modulus of rupture and breaking strength résistance à la flexion et force de rupture Biegefestigkeit und Bruchlast	S ≥ 1300 N	S ≥ 1300 N
	R ≥ 35 N/mm2	R ≥ 35 N/mm2
 Resistenza alla abrasione della superficie di piastrelle smaltate Resistance to surface abrasion of glazed tiles Résistance à l'abrasion de la surface des carreaux émaillés Widerstand gegen Abrieb der Oberfläche der glasierten Fliesen	-----	Metodo Disponibile Available Method Méthode Disponible Verfügbare Methode
 Coefficiente di dilatazione termica lineare Linear thermal expansion coefficient Dilatation thermique linéaire Lineare Wärmeausdehnung	-----	Metodo Disponibile Available Method Méthode Disponible Verfügbare Methode
 Resistenza allo shock termico Thermal shock resistance Résistance au choc thermique Temperaturwechselbeständigkeit	Nessun campione deve presentare alterazioni No sample must show visible alteration Aucun carreau ne doit présenter d'altération Kein Muster darf sichtbare Veränderungen zeigen	Resistente Resistant Résiste Widerstandsfähig
 Resistenza al gelo Frost resistance Résistance au gel Frostbeständigkeit	Non devono presentare difetti visibili No sample must show visible defect Aucun carreau ne doit présenter de défaut Muster dürfen keine sichtbaren Schäden zeigen	Resistente Resistant Résiste Widerstandsfähig
 Resistenza all'attacco chimico (tranne acido fluoridrico) Resistance to chemical attack (except hydrofluoric acid) Résistance à l'attaque chimique (sauf acide fluoridrique) Säure- und Laugenbeständigkeit (außer Flußsäure)	Nessun campione deve presentare alterazioni No sample must show visible alteration Aucun carreau ne doit présenter d'altération Kein Muster darf sichtbare Veränderungen zeigen	Resistente Resistant Résiste Widerstandsfähig GLA / GHA / GA
 Resistenza alle macchie di piastrelle smaltate Resistance to stains of glazed tiles Résistance aux taches des carreaux émaillés Widerstand gegen Fleckenbildner der glasierten Fliesen	Nessun campione deve presentare alterazioni No sample must show visible alteration Aucun carreau ne doit présenter d'altération Kein Muster darf sichtbare Veränderungen zeigen	Resistente Resistant Résiste Widerstandsfähig 5 / 5 / 5
 Resistenza dei colori alla luce Color resistance to light Résistance des couleurs à la lumière Lichtbeständigkeit	Non devono presentare apprezzabili variazioni di colore No notable color change Ne doivent pas présenter variations importantes des couleurs Muster dürfen keine sichtbaren Farbveränderungen zeigen	Campioni inalterati in brillantezza e colore No change in brightness or color Échantillons inchangés en brillance et couleurs Glanz und Farbe der Muster sind unverändert
 Resistenza alla scivolosità. Coefficiente di attrito medio Skid resistance. Average coefficient of friction Résistance au glissement. Coefficient de frottement moyen Rutschfestigkeit. Mittlerer Reibungswert	B.C.R.A. REP. CEC. 6/81 ≥ 0,40	Metodo disponibile Test method available Méthode disponible Verfügbares Verfahren
	DIN 51130 ≥ R 9 DIN 51097 ≥ A ASTM C1028 DCOF ≥ 0,42	

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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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