

European  
Ceramics

## CROATIA RANGE

Product Name: **CROATIA - 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











<b>CARATTERISTICHE TECNICHE CROATIA MATT / SAFE</b> Technical characteristics / Caractéristiques techniques Características técnicas / Technische Eigenschaften / Технические характеристики		<b>VALORI TIPICI</b> Typical values Valeurs typiques Typische Werte Характерные значения	<b>VALORI LIMITE PREVISTI</b> Expected limit values Valeurs limites prévues Erwartete Grenzwerte Предусмотренные предельные значения
Classificazione secondo <b>NORMA EN 14411 Bla annex G, UGL</b> Norm/Classment/norma/Standard  <b>SPESORE mm. 8,5 - 9 - thickness 0.3" - 0.35"</b> Epaisseur / Espesor / Stärke / Толщина			
 <b>DIMENSIONI</b> Sizes / dimensiones / dimensions / Abmessungen / Технические характеристики	<b>UNI EN ISO 10545-02</b>	<b>Conforme</b>	<b>REQUISITI INDICATI NELLA NORMA</b> Requirements of standard / Requisitos indicados en la norma / Exigences visées par la norme-Anforderungen in der Norm angegeben / Требования стандарта <b>UNI EN 14411 G</b>
 <b>ASSORBIMENTO D'ACQUA</b> Water Absorption / Absorción de agua / Absorption d'eau / Wasseraufnahme / Водопоглощение	<b>UNI EN ISO 10545-03</b>	Matt 8,5mm <=0.5% Safe 8,5mm <=0.5% Matt 9mm <=0.5% Safe 9mm <=0.5%	<= 0.5% <b>UNI EN 14411 G</b>
 <b>FORZA DI ROTTURA</b> Breaking strength / Carga de rotura / Résistance aux chocs / Bruchlast / Разрушающее усилие	<b>UNI EN ISO 10545-0</b>	Matt 8,5mm > 1300 N Safe 8,5mm > 1300 N Matt 9mm > 1300 N Safe 9mm > 1300 N	1300 N min <b>UNI EN 14411 G</b>
 <b>RESISTENZA ALLA FLESSIONE</b> Modulus of rupture / Resistencia a la flexión / Résistance à la flexion / Biegefestigkeit / Стойкость на изгиб	<b>UNI EN ISO 10545-04</b>	Matt 8,5mm > 35 N/mm <sup>2</sup> Safe 8,5mm > 35 N/mm <sup>2</sup> Matt 9mm > 35 N/mm <sup>2</sup> Safe 9mm > 35 N/mm <sup>2</sup>	35 N/mm <sup>2</sup> min <b>UNI EN 14411 G</b>
 <b>RESISTENZA ALL'URTO</b> Shock resistance / Resistencia al choque / Résistance aux chocs / Stoßfestigkeit / Сопротивление удару	<b>UNI EN ISO 10545-05</b>	<b>COEFFICIENTE DI RESTITUZIONE</b> Restitution coefficient / Coefficient de restitution / Restitutionskoeffizient / Коэффициент возврата Matt 8,5mm e > 0,86 Safe 8,5mm e > 0,86 Matt 9mm e > 0,86 Safe 9mm e > 0,86	<b>METODO DI PROVA DISPONIBILE</b> Available test method / Método de prueba disponible / Méthode d'essai disponible / Verfügbare Testmethode / Доступная методика испытаний <b>UNI EN 14411 G</b>
 <b>RESISTENZA ALL'ABRASIONE PROFONDA</b> Resistance to deep abrasion / Resistencia a la abrasión profunda / Résistance à l'abrasion profonde / Tiefenabriebfestigkeit / Стойкость к глубокому истиранию	<b>UNI EN ISO 10545-06</b>	Matt 8,5mm <= 175 mm <sup>3</sup> Safe 8,5mm <= 175 mm <sup>3</sup> Matt 9mm <= 175 mm <sup>3</sup> Safe 9mm <= 175 mm <sup>3</sup>	175 mm <sup>3</sup> max <b>UNI EN 14411 G</b>
 <b>DILATAZIONE TERMICA LINEARE</b> Linear thermal expansion / Dilatación térmica lineal Dilatation thermique linéaire / Thermische Dilatation Линейное тепловое расширение	<b>UNI EN ISO 10545-08</b>	Matt 8,5mm 6,8 Safe 8,5mm 6,8 Matt 9mm 6,8 Safe 9mm 6,8 <small>10-6°C-1</small>	<b>METODO DI PROVA DISPONIBILE</b> Available test method / Método de prueba disponible / Méthode d'essai disponible / Verfügbare Testmethode / Доступная методика испытаний <b>UNI EN 14411 G</b>
 <b>RESISTENZA AGLI SBALZI TERMICI</b> Thermal shock resistance / Resistencia al choque térmico Résistance aux chocs thermiques / Temperaturwechselbe-ständigkeit Стойкость к тепловым перепадам	<b>UNI EN ISO 10545-09</b>	Resistant / Resiste / Résistant / Beständig / Cтойкая Matt 8,5mm Resiste Safe 8,5mm Resiste Matt 9mm Resiste Safe 9mm Resiste	<b>METODO DI PROVA DISPONIBILE</b> Available test method / Método de prueba disponible / Méthode d'essai disponible / Verfügbare Testmethode / Доступная методика испытаний <b>UNI EN 14411 G</b>
 <b>DILATAZIONE DOVUTA ALL'UMIDITÀ</b> Determination of moisture expansion / Dilación causada por la humedad / Déterm- ination de la dilatation à l'humidité / Ausdehnung auf Grund von Feuchtigkeit / Расширение под воздействием влажности	<b>UNI EN ISO 10545-10</b>	Matt 8,5mm 0,1% Safe 8,5mm 0,1% Matt 9mm 0,1% Safe 9mm 0,1%	<b>METODO DI PROVA DISPONIBILE</b> Available test method / Método de prueba disponible / Méthode d'essai disponible / Verfügbare Testmethode / Доступная методика испытаний <b>UNI EN 14411 G</b>

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	<b>RESISTENZA AL GELO</b> Frost resistance / Resistencia al hielo / Résistance au gel / Frostbeständigkeit / Морозостойкость	UNI EN ISO 10545-12	Resistant / Resiste / Résistant / Beständig / Cтойкий Matt 8,5mm Resiste Safe 8,5mm Resiste Matt 9mm Resiste Safe 9mm Resiste	<b>RICHIESTA</b> Required / Solicitud / Requite / Gefordert / Требуется UNI EN 14411 G
	<b>RESISTENZA ALL'ATTACCO CHIMICO</b> Chemical resistance / Resistencia al ataque químico / Résistance chimique / Chemische Beständigkeit / Стойкость к химическому воздействию	UNI EN ISO 10545-13	Matt 8,5mm A Safe 8,5mm A Matt 9mm A Safe 9mm A Matt 8,5mm LA - HA Safe 8,5mm LA - HA Matt 9mm LA - HA Safe 9mm LA - HA	<b>B Min</b> UNI EN 14411 G  <b>REQUISITI INDICATI NELLA NORMA</b> Requirements of standard / Requisitos indicados en la norma / Exigences visées par la norme / Anforderungen in der Norm angeben / Требования стандарта
	<b>RESISTENZA ALLE MACCHIE</b> Stain resistance / Resistencia a las manchas / Résistance aux taches / Fleckenbeständigkeit / Стойкость к загрязнению	UNI EN ISO 10545-14	Class / Classe / Catégorie / Klasse / Knacc Matt 8,5mm Classe 4 Safe 8,5mm Classe 4 Matt 9mm Classe 4 Safe 9mm Classe 4	<b>Classe 3 min</b> Class 3 min / Classe 3 min / Catégorie 3 min / Klasse 3 min / Knacc 3 min UNI EN 14411 G
	<b>RESISTENZA ALLO SCIVOLAMENTO</b> Slip resistance / Resistencia al deslizamiento / Résistance au glissement / Rutschfestigkeit / Сопротивление скольжению	DIN EN 16165:2021 Annex B	Matt 8,5mm R10 Safe 8,5mm R11 Matt 9mm R10 Safe 9mm R11	<b>Da R9 a R13</b> From R9 to R13 / De R9 a R13 / De R9 à 13 / Von R9 auf R13 / От R9 до R13 BGR 181
	<b>RESISTENZA ALLO SCIVOLAMENTO A PIEDI NUDI</b> Slip resistance barefoot / Resistencia al deslizamiento con pies descalzos / Résistance au glissement pieds nus / Rutschfestigkeit fuer den Barfussbereich / Сопротивление скольжению при хождении босиком	DIN EN 16165:2021 Annex A	Matt 8,5mm A+B Safe 8,5mm A+B+C Matt 9mm A+B Safe 9mm A+B+C	<b>Da A a C</b> From A to C / De A a C / De A à C / Von A auf C / От A до C GUV 26.17
<b>COF</b>	<b>DETERMINAZIONE COEFFICIENTE ATTRITO STATICO</b> Static coefficient of friction C.O.F. / Determinación del coeficiente de fricción estática / Calcul du coefficient de frottement statique sec mouillé / Bestimmung des statischen Reibungskoeffizienten Trockenreibung Nassreibung / Определение коэффициента статического трения сухая поверхность мокрая поверхность	ASTM C 1028	Matt 8,5mm DRY 0,94 WET 0,66 Safe 8,5mm DRY 0,96 WET 0,76 Matt 9mm DRY 0,94 WET 0,66 Safe 9mm DRY 0,96 WET 0,76	
<b>D.COF</b>	<b>DETERMINAZIONE COEFFICIENTE ATTRITO DINAMICO</b> Dynamic coefficient of friction D.C.O.F. / Determinación del coeficiente de fricción dinámica / Calcul du coefficient de frottement dynamique sec mouillé / Bestimmung des statischen Reibungskoeffizienten Trockenreibung Nassreibung / Определение коэффициента динамического трения сухая поверхность мокрая поверхность	ANSI A326.3	Matt 8,5mm DRY - WET 0,50 Safe 8,5mm DRY - WET 0,70 Matt 9mm DRY - WET 0,50 Safe 9mm DRY - WET 0,70	
<b>V</b>	<b>STONALIZZAZIONE</b> Shade Variation / Dénuancement / Variedad de tonalidades / Farbspiel / Разнотонность		V2	<b>V1</b> Uniforme / Uniform / Uniforme / Uniforme / Gleichmäßig / Однородная <b>V2</b> Leggera / Low / Légère / Ligera / Leicht / Легкая <b>V3</b> Media / Medium / Moyenne / Media / Mittel / Средняя <b>V4</b> Alta / High / Haute / Alta / Hoch / Высокая

## Decori / Decors

							
<b>Rondini *</b> 120x280 48"x111" 6 mm Rett_Rect	<b>Tellas</b> 120x280 48"x111" 6 mm Rett_Rect	<b>Rondini (Set 2 pz) *</b> 60x120 24"x48" 9 mm Rett_Rect	<b>Tellas</b> 60x120 24"x48" 9 mm Rett_Rect	<b>Mosaico 4,7x4,7</b> 30x30 12"x12" 9 mm	<b>Fascia Brick</b> 20x60 8"x24" 9 mm	<b>Esagona</b> 33x27,5 13"x10,8" 9 mm	<b>Losanga</b> 30x38 12"x15" 9 mm
	Matt	Matt	Matt	Matt	Matt	Matt	Matt
<b>Antracite</b>				95528	95532	97181	97186
	92786	94670	92788	P 17	P 35	P 33	P 40
<b>Avorio</b>				94133	94134	97182	97187
				P 17	P 35	P 33	P 40
<b>Beige</b>				95529	95533	97183	97188
				P 17	P 35	P 33	P 40
<b>Grigio</b>				95530	95534	97184	97189
	P 1855	P 500	S 460	M 78	P 17	P 35	P 33
<b>Tortora</b>				95531	95535	97185	97190
				P 17	P 35	P 33	P 40
	PZ x BOX	6	6	1 set	2	6	6
	MQ x BOX	7,20	7,20	1,44	1,44	0,54	0,54
	KG x BOX	7	7	31,50	30,5	10,20	15
	BOX x PL	60	60	-	32	60	72
	MQ x PL	21,30	21,30	-	46,8	32,40	32,40
	KG x PL	420	420	-	976	612	360

### Legenda / Legend

M metri quadrati/square meters - L metri lineari/linear meters - P pezzi/pieces - S set/set

Per motivi tecnici i pesi sopra indicati possono variare / For technical reasons the weights indicated above may vary.

\* Rivestimento - Utilizzare solo detersivi neutri  
Wall - Use neutral detergents only

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

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