



European
Ceramics

REVES RANGE

Product Name: REVES - **VARIOUS COLOUR/FINISHES/SIZE/THICKNESS**

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.

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Technical Information

RÊVES

GRES PORCELLANATO COLORATO IN MASSA

COLOURED BODY PORCELAIN STONEWARE - GRÉS CÉRAME COLORE DANS LA MASSE - DURCHGEFÄRBTE FEINSTEINZEUG/REKTIFIZIERT - GRES PORCELÁNICO COLOREADO EN MASA
SQUADRATO - SQUARED - ECUARRI - REKTIFIZIERT - ESQUADRADO

9 mm 3/8"

[illegible]

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SQUADRATO - SQUARED - EQUARRI - REKTIFIZIERT - ESQUADRADO

6 mm 1/4" 

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES - TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS							
Plastrelle di ceramica pressate a secco. Caratteristiche di qualità secondo i test di controllo previsti dalla norma EN 14411-ISO 13006 Appendice G gruppo IIIa GL / Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 14411-ISO 13006 Appendix G group IIIa GL / Carreaux céramiques pressés à sec. Caractéristiques de qualité d'après les essais de contrôle prévus par la norme EN 14411-ISO 13006 Appendice G groupe IIIa GL / Trocken gepresste Keramikfliesen. / Qualitätsanforderungen nach Normen EN 14411-ISO 13006 Anlage G Gruppe IIIa GL / Baldosas de cerámica prensadas en seco. Características de calidad según las Normas EN 14411-ISO 13006 Apéndice G grupo IIIa GL.		PRESCRIZIONE STANDARD REQUIREMENTS PRÉSCRIPTIONS ANFORDERUNGEN PRESCRIPCIÓN		RESULTATI TESTS TEST RESULTS RÉSULTATS DES ESSAIS PRÜFERGEBNISSE RESULTADOS TESTS		RIFERIMENTO NORMA REFERENCE STANDARD RÉFÉRENCE NORME STANDARDEWERT REFERENCIA NORMA	
		N ≥ 15 cm		N ≥ 15 cm			
		(%)	(mm)	matte	glossy		
	LUNGHEZZA E LARGHEZZA: DEVIAZIONE AMMISSIBILE, IN %, DELLA DIMENSIONE MEDIA DI OGNI PIASTRELLA DALLA DIM. DI FABBRICAZIONE / LENGTH AND WIDTH: ADMITTIBLE DEVIATION OF EACH TILE FROM ITS PRODUCTION DIMENSIONS / LONGUEUR ET LARGEUR: ÉCART ADMISSIBLE, EN %, ENTRE LA DIMENSION MOYENNE DE CHAQUE CÉRAMIQUE ET LA DIM. DE FABRICATION / LÄNGE UND BREITE: ZULASSIGE ABWEICHUNG DER DIMENSION MITTELWERT DER FLÄCHEN VON FABRIKATIONSDIMENSIONEN / LARGO Y ANCHO: DESVIACIÓN ADMISIBLE, EN %, DEL TAMAÑO MEDIO DE CADA BALDOSA A PARTIR DEL TAMAÑO DE FABRICACIÓN	Squadrato ISO 13006	±0,3 %	±1,0 mm	±0,15 %	ISO 10545-2	
	DEVIAZIONE AMMISSIBILE, IN PERCENTO, DELLO SPESORE MEDIO DI OGNI PIASTRELLA DALLA DIMENSIONE DI FABBRICAZIONE / PERCENTAGE OF THE AVERAGE THICKNESS OF EACH TILE FROM ITS PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE EN POURCENT DE L'ÉPAISSEUR MOYENNE DE CHAQUE CÉRAMIQUE À L'ÉGAUD DE LA DIMENSION DE FABRICATION / ZULASSIGE ABWEICHUNG DER DICKE MITTELWERT DER FLÄCHEN VON FABRIKATIONSDIMENSIONEN / DESVIACIÓN ADMISIBLE, EN PORCIENTO, DEL GROSOR MEDIO DE CADA BALDOSA A PARTIR DEL TAMAÑO DE FABRICACIÓN	Squadrato ISO 13006	±5 %	±0,5 mm	±5 %	ISO 10545-2	
	DEVIAZIONE MASSIMA DI RETTILINEITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE CORRESPONDENTI / MAXIMUM STRAIGHTNESS DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / ÉCART MAXIMUM DE RECTITUDE, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION CORRESPONDANTES / ZULASSIGE HOCHSTRECKUNGSEBENHEIT, IN VERHÄLTNIS ZU DEN FABRIKATIONSDIMENSIONEN / DESVIACIÓN MÁXIMA DE RECTITUDIN, EN PORCIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±0,8 mm	±0,10 %	ISO 10545-2	
	DEVIAZIONE MASSIMA DI ORTOGONALITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE CORRESPONDENTI / MAXIMUM ANGULAR DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE EN POURCENT DE L'ORTOGONALITÉ, PAR RAPPORT AUX DIMENSIONS DE FABRICATION CORRESPONDANTES / ZULASSIGE HOCHSTRECKUNGSEBENHEIT, IN VERHÄLTNIS ZU DEN FABRIKATIONSDIMENSIONEN / DESVIACIÓN MÁXIMA DE LA ORTOGONALIDAD, EN PORCIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±1,5 mm	±0,30 %	ISO 10545-2	
	PIANITÀ / PLANÉTE, DEL CENTRO DELLO SGREGO E SVERGOLAMENTO / PLATNESS / PLANÉTE, IN THE MIDDLE CORNER AND VERTICES / PLANITÉ / PLANÉTE, AU CENTRE, DES ARÊTES ET VERTICES / PLANITÄT / PLANÉTE, IM MITTELWERT DER ECKEN UND VERBINDERUNGEN / PLANITUD / PLANÉTE, EN EL CENTRO DE LA ARISTA Y ANGULAMENTO	Squadrato ISO 13006	±0,4 %	±1,8 mm	±0,30 %	ISO 10545-2	
	QUALITÀ DELLA SUPERFICIE / SURFACE QUALITY / QUALITÉ DE LA SURFACE / QUALITÄT DER OBERFLÄCHE / CALIDAD DE LA SUPERFICIE	Il 90% non delle piastrelle deve essere marcato da difetti visibili / 90% max tiles must be free from visible flaws. 10% max tiles can have visible defects without affecting the surface quality. / 90% des carreaux ne doivent présenter aucun défaut visible. 10% max des carreaux peuvent présenter des défauts visibles sans que cela affecte la qualité de la surface.				CONFORME / CONFORME / CONFORME / CONFORME	ISO 10545-2
	INQUADRIAMENTO / INQUADRIAMENTO / INQUADRIAMENTO / INQUADRIAMENTO	≤ 0,5%		valore medio 0,08 %		ISO 10545-3	
	FORZA DI ROTTURA IN N/mm² / BREAKING STRENGTH IN N/mm² (chiusura < 75 mm) / FORCE DE ROTTURE EN N/mm² / BREAKSTRENGTH IN N/mm² (chiusura < 75 mm) / FUERZA DE ROTTURA EN N/mm² / BREAKSTRENGTH IN N/mm² (chiusura < 75 mm)	≥ 700		valore medio 1350 N		ISO 10545-4	
	RESISTENZA ALLA FLESSIONE IN N/mm² / FLEXURAL STRENGTH TEST / RESISTANCE TO FLEXION IN N/mm² / BIEGESTÄRKE IN N/mm² / RESISTENCIA A LA FLEXIÓN EN N/mm²	> 35 N/mm²		valore medio 52 N/mm²		ISO 10545-4	
	RESISTENZA ALL'ABRASIONE DELLE SUPERFICI SANITATE / RESISTANCE TO ABRASION OF GLAZED TILES / RESISTANCE TO ABRASION OF THE SANITIZED SURFACES / RESISTENCIA A LA ABRASIÓN DE LAS SUPERFICIES SANITIZADAS	CONFORME / CONFORME / CONFORME / CONFORME		Réve perle classe 4 Réve bleu classe 4 Réve rosé classe 4 Réve choco classe 3 Réve jade classe 3 Réve rose classe 3	Réve perle classe 4 Réve bleu classe 4 Réve rosé classe 4 Réve choco classe 2 Réve jade classe 3 Réve rose classe 3	ISO 10545-7	
	RESISTENZA AGLI ULCERI TERMICI / THERMAL SHOCK RESISTANCE / RESISTANCE AUX ULCÈRES THERMIQUES / TEMPERATURASCHOCKRESISTENZ / RESISTENCIA AL CHOCQUE TÉRMICO	Metodo di prove disponibili / Available test results / Minimum of tests available		RESISTE - RESISTANT RESISTE - RESISTANT RESISTE - RESISTANT		ISO 10545-9	
	RESISTENZA AL GEL / FROST RESISTANCE / RESISTANCE AU GEL / FROSTRESISTENZ / RESISTENCIA AL HELADA	NO TESTS - REQUIRED REQUIS - REQUIS REQUIS - REQUIS		RESISTE - RESISTANT RESISTE - RESISTANT RESISTE - RESISTANT		ISO 10545-12	
	RESISTENZA ALLE MACCHIE / RESISTANCE TO STAINING / RESISTANCE AUX TACHES / RESISTENCIA A LAS MANCHAS	min Classe 3		Classe 5	Classe 4	ISO 10545-14	
	RESISTENZA AGLI AGENTIS CHIMICI / RESISTANCE TO CHEMICAL AGENTS / RESISTANCE AUX AGENTS CHIMIQUES / RESISTENCIA A LOS AGENTES QUÍMICOS	CONFORME / CONFORME / CONFORME / CONFORME		CONFORME / CONFORME / CONFORME / CONFORME		EN 13007-2007 Reg. CE 1915/2004	
	RESISTENZA A BASSE CONCENTRAZIONE DI ACIDI E ALCAI / RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS / RESISTANCE AUX BASSES CONCENTRATIONS D'ACIDES ET D'ALCAI / RESISTENCIA A BAJAS CONCENTRACIONES DE ÁCIDOS Y ALCALES	CONFORME / CONFORME / CONFORME / CONFORME		LA	LB	ISO 10545-13	
	RESISTENZA AI PRODOTTI CHIMICI DI USO DOMESTICO E AGI AGENTIS PER PULIZIA / RESISTANCE TO DOMESTIC CHEMICAL PRODUCTS AND AGENTS FOR CLEANING / RESISTANCE AUX PRODUITS CHIMIQUES D'USAGE DOMESTIQUE ET AUX AGENTS POUR PROPRE / RESISTENCIA A LOS PRODUCTOS QUÍMICOS DE USO DOMESTICO Y A LOS AGENTES PARA LIMPIEZA	MNB		A		ISO 10545-13	
	COEFFICIENTE DI FRICTION / COEFFICIENT OF FRICTION / COEFFICIENT DE FRICTION / COEFFICIENT DE FRICTION	-		> 0,42 met		ANSI A 326.3	
	COEFFICIENTE DI FRICTION / COEFFICIENT OF FRICTION / COEFFICIENT DE FRICTION / COEFFICIENT DE FRICTION	-		> 0,40		METODO BORA	

Per un effetto a strisce della pasta, si consiglia di utilizzare 2 mm di grigio per ogni marcia di 10 mm per combinare il bianco e il grigio. / For a striped effect of the paste, it is recommended to use 2 mm of grey for every 10 mm of white to combine white and grey. / Pour obtenir un effet à bandes de la pâte, il est conseillé d'utiliser 2 mm de gris pour chaque 10 mm de blanc pour combiner le blanc et le gris. / Para lograr un efecto a rayas de la pasta, se recomienda utilizar 2 mm de gris por cada 10 mm de blanco para combinar el blanco y el gris. / Para lograr un efecto a rayas de la pasta, se recomienda utilizar 2 mm de gris por cada 10 mm de blanco para combinar el blanco y el gris.

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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 fire performance characteristics of ceramic/porcelain tiles or natural stone, please refer to the Technical Documents section on euroceramics.co.nz

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