



European
Ceramics

ONYX & MORE RANGE

Product Name: ONYX & MORE - **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

ONYX&MORE

GRES FINE PORCELLANATO/FINE PORCELAIN STONEWARE/GRES CERAME FIN/FEINSTEINZEUG-KOLLEKTIONEN/GRES PORCELANICO FINO
SQUADRATO - SQUARED - EQUARRI - REKTIHIZIERT - ESQUADRADO

9 mm 3/8"

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES - TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS							
	Lastre in gres fine porcellanato non smaltato. Piastrelle di ceramica pressate a secco. Caratteristiche di qualità secondo i test di controllo previsti dalla norma EN 14411-ISO 13006 Appendice G gruppo Bia UGL / Unglazed porcelain stoneware slabs. Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 14411-ISO 13006 Appendice G gruppo Bia UGL. / Dalles en gres cérame fin non émaillé. Carreaux céramiques pressés à sec. Caractéristiques de qualité d'après les essais de contrôle norme EN 14411-ISO 13006 Appendice G groupe Bia UGL. Nicht glasierte und vollständig gepresste Feinsteinzeugplatten. Trocken gepresste Keramikfliesen. Qualitätsanforderungen nach Normen EN 14411-ISO 13006 Anhang G Gruppe Bia UGL. Planchas de gres porcelánico fino no esmaltado. Baldosas de cerámica resadas en seco. Características de calidad según las Normas EN 14411-ISO 13006 Apéndice G grupo Bia UGL.	PRESCRIZIONE STANDARD REQUIREMENTS PRESCRIPTIONS ANFORDERUNGEN PRESCRIPCION	RISULTATI TESTS TEST RESULTS RESULTATS DES ESSAIS PRÜFERGEBNIS RESULTADOS TESTS			RIFERIMENTO NORMA REFERENCE STANDARD RÉFÉRENCE NORME STANDARTWERT REFERENCIA NORMA	
		N ≥ 15 cm					
		(%)	(mm)	satin	matte priv		glossy
	LUNGHEZZA E LARGHEZZA: DEVIAZIONE AMMESSIBILE, IN %, DELLA DIMENSIONE MEDIA DI OGNI PIASTRELLA DALLA DIM. DI FABBRICAZIONE / LENGTH AND WIDTH ADMITTED DEVIATION, IN %, OF THE AVERAGE SIZE OF EACH TILE FROM THE PRODUCTION / DIMENSIONS / LONGUEUR ET LARGEUR / MARGE DE TOLÉRANCE, EN %, ENTRE LA DIMENSION MOYENNE DE CHAQUE CARREAU ET LA DIM. DE FABRICATION / LANGE UND BREITE: ZULASSIGE ABWEICHUNG DES DURCHSCHNITTMAßES (BIS FÜR JEDE HERSTELLBAR IN PROZENTEN) / 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 AMMESSIBILE, IN PERCENTO, DELLO SPESORE MEDIO DI OGNI PIASTRELLA DALLA DIMENSIONE DI FABBRICAZIONE / ADMITTED DEVIATION, IN %, OF THE AVERAGE THICKNESS OF EACH TILE FROM THE PRODUCTION / DIMENSIONS / MARGE DE TOLÉRANCE, EN POURCENTAGE, ENTRE L'ÉPAISSEUR MOYENNE DE CHAQUE CARREAU ET LA DIMENSION DE FABRICATION / ZULASSIGE ABWEICHUNG DER DÜCKENSTÄRKE (IM VERHÄLTNIß ZU DEN ENTSPRECHENDEN HERSTELLMAßEN IN PROZENTEN) / DESVIACIÓN MÁXIMA DE RECTITUD, EN TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±5 %	±0,5 mm		±5 %	
	DEVIAZIONE MASSIMA DI RETTILINEITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE / CORRESPONDENTI MAXIMUM STRAIGHTNESS DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE DE RECTITUDE, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / HOCHSTABWEICHUNG DER RECHTWINKEIGKEIT (IM VERHÄLTNIß ZU DEN ENTSPRECHENDEN HERSTELLMAßEN IN PROZENTEN) / DESVIACIÓN MÁXIMA DE RECTITUD, EN TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±0,8 mm		±0,10 %	
	DEVIAZIONE MASSIMA DI ORTOGONALITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE / CORRESPONDENTI MAXIMUM RIGHT-ANGLE DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE D'ANGULARITÉ, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / HOCHSTABWEICHUNG DER RECHTWINKEIGKEIT (IM VERHÄLTNIß ZU DEN ENTSPRECHENDEN HERSTELLMAßEN IN PROZENTEN) / DESVIACIÓN MÁXIMA DE LA ORTOGONALIDAD, EN TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±1,5 mm		±0,2 %	
	PLANARITÀ (CURVATURA DEL CENTRO, DELLO SPIGOLO E SVERGOLAMENTO) / FLATNESS (CURVING IN THE MIDDLE, CORNER AND WARPIING) / PLANÉTE (COUREURE CENTRALE, DE L'ARÊTE ET GAUCHESSEMENT) / EBENFLÄCHIGKEIT (AUFWÄRTUNG DER MITTE, DER KANTE UND VERKÜMMUNG) / PLANITUD (CURVATURA DEL CENTRO, DE LA ARISTA Y ABAÑQUELLAMIENTO)	Squadrato ISO 13006	±0,4 %	±1,8 mm		±0,35 %	
	QUALITÀ DELLA SUPERFICIE - SURFACE QUALITY / QUALITÉ DE LA SURFACE - QUALITÄT DER OBERFLÄCHE / CALIDAD DE LA SUPERFICIE					CONFORME/CONFORMING CONFORME/CONFORM CONFORME	
	MASSA D'ACQUA ASSORBITA IN % / WATER ABSORPTION - MASSE D'EAU ABSORBÉE EN % / WASSERAUFNAHME IN % MASSA DE AGUA ABSORBIDA EN %		Es0,5%			valore medio 0,08%	ISO 10545-3
	FORZA DI ROTTURA IN N (p.p. > 7,5 mm) - BREAKING STRENGTH IN N (thickness > 7,5 mm) / FORCE DE RUPTURE EN N (p.p. > 7,5 mm) / BRUCHLAST IN N (Dicke > 7,5 mm) / FUERZA DE ROTURA EN N (p.p. > 7,5 mm)		≥ 1300 min			valore medio 2200 N	ISO 10545-4
	RESISTENZA ALLA FLESSIONE IN N/mm² / FLEXURAL STRENGTH TEST / RÉSISTANCE À LA FLEXION EN N/mm² / BEUGESTÄRKE IN N/mm² / RESISTENCIA A LA FLEXIÓN EN N/mm²		> 35 min			valore medio 50 N/mm²	ISO 10545-4
	RESISTENZA ALL'ABRAZIONE PROFONDA DELLE PIASTRELLE NON SMALTATE / RESISTANCE TO DEEP ABRASION OF UNGLAZED TILES / RESISTANCE À L'ABRASION PROFONDE DES CARREAUX NON ÉMAILLÉS / TIEFENABRIERSTÄRKE UNGLASSIRTER FLESEN / RESISTENCIA A LA ABRASIÓN PROFUNDA DE LAS BALDOSAS SIN ESMAILAR		<175 mm³			valore medio 140 mm³	ISO 10545-6
	RESISTENZA AGLI SBALZI TERMICI / THERMAL SHOCKS RESISTANT / RÉSISTANCE AUX VARIATIONS THERMIQUES TEMPERATURWECHSELBESTÄNDIGKEIT / RESISTENCIA AL CHOQUE TÉRMICO		Metodo di prova disponibile Available testing method Méthode d'essai disponible Verfügbare Prüfmethode Método de ensayo disponible			RESISTE - RÉSISTANT RÉSISTE - ERFÜLLT RESISTE	ISO 10545-9
	RESISTENZA ALLE MACCHIE / RESISTANCE TO STAINING / RÉSISTANCE AUX TACHES / FLECKENABWEISUNG RESISTENCIA A LAS MANCHAS		Metodo di prova disponibile Available testing method Méthode d'essai disponible Verfügbare Prüfmethode Método de ensayo disponible	Classe 4-5	Classe 5	Classe 4-5	ISO 10545-14
	RESISTENZA A BASSE CONCENTRAZIONI DI ACIDI E ALCALI / RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS / RÉSISTANCE À BASSES CONCENTRATIONS D'ACIDES ET D'ALCAÏS / WIDERSTAND GEGEN NIEDRIGE KONZENTRATIONEN VON SÄUREN UND LAUGEN / RESISTENCIA A BAJAS CONCENTRACIONES DE ÁCIDOS Y ALCALIS		COME DICHIARATO DAL PRODUTTORE SEE MANUFACTURER'S DECLARATION SELON DÉCLARATION DU PRODUCTEUR ENTSPRECHEND DER HERSTELLERANGABEN AL COMO DECLARAR EL FABRICANTE	LB	LA	LB	ISO 10545-13
	RESISTENZA AI PRODOTTI CHIMICI DI USO DOMESTICO E AGLI ADDITIVI PER PISCINE / RESISTANCE TO DOMESTIC CHEMICAL PRODUCTS AND ADDITIVES FOR SWIMMING POOLS / RÉSISTANT AUX PRODUITS CHIMIQUES À USAGE DOMESTIQUE ET AUX ADDITIFS POUR PISCINE / WIDERSTAND GEGEN HAUSHALTSCHIMIKALIEN UND SCHWIMMBADZUSATZSTOFFEN / RESISTENCIA A PRODUCTOS PARA LIMPIEZA DOMÉSTICA Y ADITIVOS PARA PISCINAS		B min			A	ISO 10545-13
	RESISTENZA AL GELO / FROST RESISTANCE - RÉSISTANCE AU GEL / FROSTSICHERHEIT - RESISTENCIA A LA HELADA		RICHIESTA / REQUIRED REQUISIT / GEFORDERT REQUERIDA			RESISTE - RÉSISTANT RÉSISTE - ERFÜLLT RESISTE	ISO 10545-12
	COEFFICIENTE D'ATTRITO (SCIVOLosità) / FRICTION COEFFICIENT (SLIPPERINESS) / COEFFICIENT DE FRICTION (GLISSEMENT) / REIBUNGSKOEFFIZIENT (SCHLEIFERIGKEIT) - COEFICIENTE DE ANTI DESLIZAMIENTO		-	> 0,42 wet	-	-	ANSI A 326.3
			-	18° ≤ α < 24° classe B	-	-	DIN EN 16165 ANNEX A
			-	10° ≤ α ≤ 19° RTD	-	-	DIN EN 16165 ANNEX B

Per un effetto ottimale della posa, Forim suggerisce di mantenere 2 mm di fuga per pose monofornate e 3 mm per combinare formati misti. / For optimal installation results, Forim recommends maintaining a joint of 2 mm 1/16" for single format installations and 3 mm 1/8" to combine mixed formats. / Pour réaliser une pose parfaite, Forim suggère de maintenir 2 mm de joint pour la pose des monofornats, et 3 mm pour les combinaisons de formats mixtes. / Um einen optimalen Effekt beim Verlegen zu erzielen, empfehlen wir einen 2 mm Fuge bei monoformatigen Verlegungen und 3 mm Fuge bei Formatkombinationen. / Para lograr los máximos resultados en la posa del producto, Forim aconseja 2 mm de junta en aplicaciones monofornato y 3 mm en combinaciones de formatos mixtos.

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SQUADRATO - SQUARED - EQLARRI - REKTIFIZIERT - ESQUADRADO

6 mm 1/4"

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES - TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS									
Lastre in gres fine porcellanato non smaltato. Piastrine di ceramica pressate a secco. Caratteristiche di qualità secondo i test di controllo previsti dalla norma EN 14411-ISO 13006 Appendice G gruppo Bia UGL. / Unglazed porcelain non-glazed slabs. Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 14411-ISO 13006 Appendix G group Bia UGL. / Dalles en gres cérame fin non émaillé. Carreaux céramiques pressés à sec. Caractéristiques de qualité d'après les essais de contrôle norme EN 14411-ISO 13006 Appendice G groupe Bia UGL. / Nicht glasierte und vollständig gerante Feinsandstein-platten. Trocken gepresste Keramikfliesen. Qualitätsangaben nach Normen EN 14411-ISO 13006 Anhang G Gruppe Bia UGL. / Planchas de gres porcelánico fino no esmaltado. Baldosas de cerámica prensadas en seco. Características de calidad según las Normas EN 14411-ISO 13006 Apéndice G grupo Bia UGL.				PRESCRIZIONE STANDARD REQUIREMENTS ANFORDERUNGEN PRESCRIPTION		RISULTATI TESTS TEST RESULTS RESULTATS DES ESSAIS PRÜFERGEBNIS RESULTADOS TESTS			REFERIMENTO NORMA REFERENCE STANDARD RÉFÉRENCE NORME STANDARDEERT REFERENCIA NORMA
				N ≥ 15 cm					
				(%)	(mm)	satin	matte	glossy	
	LUNGHEZZA E LARGHEZZA: DEVIAZIONE AMMISSIBILE, IN %, DELLA DIMENSIONE MEDIA DI OGNI PIASTRELLA DALLA DIM. DI FABBRICAZIONE / LENGTH AND WIDTH- ADMITTED DEVIATION, IN %, OF THE AVERAGE SIZE OF EACH TILE FROM THE PRODUCTION DIMENSIONS / LONGUEUR ET LARGEUR : MARGE DE TOLÉRANCE, EN %, ENTRE LA DIMENSION MOYENNE DE CHAQUE CARREAU ET LA DIM. DE FABRICATION / LANGE UND BREITE: ZULASSIGE ABWEICHUNG DES DURCHSCHNITTMAßES, GEGEN FÜR DEN HERSTELLMAß IN PROZENTEN / 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
	DEVAZIONE AMMISSIBILE, IN PERCENTO, DELLO SPESORE MEDIO DI OGNI PIASTRELLA DALLA DIMENSIONE DI FABBRICAZIONE / ADMITTED DEVIATION, IN %, OF THE AVERAGE THICKNESS OF EACH TILE FROM THE PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE, EN POURCENTAGE, ENTRE L'ÉPAISSEUR MOYENNE DE CHAQUE CARREAU ET LA DIMENSION DE FABRICATION / ZULASSIGE ABWEICHUNG DER DURCHSCHNITTSDICKES (GEGEN FÜR DEN HERSTELLMAß IN PROZENTEN / COCINAÇÃO ADMISÍVEL, EM TANTO POR CIENTO, DEL GROSOR MEDIO DE CADA BALDOSA A PARTIR DEL TAMAÑO DE FABRICACIÓN	Squadrato ISO 13006	±5 %	±0,5 mm		±5 %			ISO 10545-2
	DEVAZIONE MASSIMA DI RETTILINEARITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE CORRESPONDENTI / MAXIMUM STRAIGHTNESS DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE DE RECTITUDE, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / HÖCHSTABWEICHUNG DER KANTENGERADIGKEIT IM VERHÄLTNIß ZU DEN ENTSPRECHENDEN LÄNGEN IN PROZENTEN / DESVIACIÓN MÁXIMA DE RECTITUD, EN TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±0,8 mm		±0,10 %			ISO 10545-2
	DEVAZIONE MASSIMA DI ORTOGONALITÀ, IN PERCENTO, IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE CORRESPONDENTI / MAXIMUM RIGHT-ANGLE DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE D'ANGULARITÉ, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / HÖCHSTABWEICHUNG DER RECHTWINKELIGKEIT IM VERHÄLTNIß ZU DEN ENTSPRECHENDEN HERSTELLMAßEN IN PROZENTEN / COCINAÇÃO ADMISÍVEL, EM TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±1,5 mm		±0,20 %			ISO 10545-2
	PLANARITÀ (CURVATURA DEL CENTRO, DELLO SPIGOLO E SVERGOLAMENTO) / FLATNESS (CURVING IN THE MIDDLE, CORNER AND WARPING) / PLANÉITÉ (COURBURE CENTRALE, DE L'ANGLE ET GAUCHISSEMENT) / SEITENGERADIGKEIT (WÜRMUNG DER MITTE, DER KANTE UND VERWÖGUNG) / PLANITUD (CURVATURA DEL CENTRO, DE LA ARISTA Y ABARRIGUAMIENTO)	Squadrato ISO 13006	±0,4 %	±1,8 mm		±0,20 %			ISO 10545-2
	QUALITÀ DELLA SUPERFICIE / SURFACE QUALITY / QUALITÉ DE LA SURFACE / QUALITÄT DER OBERFLÄCHE / CALIDAD DE LA SUPERFICIE	Il 95% min. delle piastrelle deve essere esente da difetti visibili. / At least 95% of the tiles must be free from visible flaws. 95% min. des carreaux ne doivent présenter aucun défaut visible. Mindestens 95% der Fliesen müssen frei von sichtbaren Mängeln sein. / el 95% de las baldosas tiene que estar exento de defectos visibles				CONFORME/CONFORMING CONFORME/CONFORM CONFORME			ISO 10545-2
	MASSA D'ACQUA ASSORBITA IN % / WATER ABSORPTION - MASSE D'EAU ABSORBÉE EN % / WASSERAUFNAHME IN % / MASA DE AGUA ABSORBIDA EN %		< 0,5%				valore medio 0,08%		ISO 10545-3
	FORZA DI ROTTURA IN N (sp. < 7,5 mm) / BREAKING STRENGTH IN N (thickness < 7,5 mm) / FORCE DE RUPTURE EN N (ép. < 7,5 mm) / BRUCHLAST IN N (Dicke < 7,5 mm) / FUERZA DE ROTTURA EN N (gr. < 7,5 mm)		≥ 700				valore medio 1350 N		ISO 10545-4
	RESISTENZA ALLA FLESSIONE DIN/EN IN N/mm² / FLEXURAL STRENGTH TEST / RÉSISTANCE À LA FLEXION EN N/mm² / BEUGEFESTIGKEIT IN N/mm² / RESISTENCIA A LA FLEXIÓN EN N/mm²		35 MIN.				valore medio 52 N/mm²		ISO 10545-4
	RESISTENZA ALL'ABRAZIONE PROFONDA DELLE PIASTRELLE NON SMALTATE / RESISTANCE TO DEEP ABRASION OF UNGLAZED TILES / RESISTANCE À L'ABRASION PROFONDE DES CARREAUX NON ÉMAILLÉS / TIEFENABRIEFESTIGKEIT UNGLASIRTER FLESEN / RESISTENCIA A LA ABRASIÓN PROFUNDA DE LAS BALDOSES SIN ESMALTAR		< 175 mm³				valore medio 140 mm³		ISO 10545-6
	RESISTENZA AGLI SBALZI TERMICI / THERMAL SHOCKS RESISTANT / RÉSISTANCE AUX VARIATIONS THERMIQUES / TEMPERATURWECHELBESTÄNDIGKEIT / RESISTENCIA AL CHOQUE TÉRMICO	Metodo di prova disponibile / Available testing method Méthode d'essai disponible / Verfügbare Prüfmethode Método de ensayo disponible			RESISTE - RESISTANT RÉSISTE - DÉPLAIT RÉSISTE				ISO 10545-9
	RESISTENZA AL GELO / FROST RESISTANCE / RÉSISTANCE AU GEL / FROSTFESTIGKEIT / RESISTENCIA ALA HELADA	RECHESTE - REQUIRED REQUIS - GEFORDERT REQUERIDA			RESISTE - RESISTANT RÉSISTE - DÉPLAIT RÉSISTE				ISO 10545-12
	RESISTENZA ALLE MACCHIE / RESISTANCE TO STAINING / RÉSISTANCE AUX TACHES / FLECKENABWISSEND / RESISTENCIA A LAS MANCHAS	Metodo di prova disponibile / Available testing method Méthode d'essai disponible / Verfügbare Prüfmethode Método de ensayo disponible			Classe 4-5	Classe 5	Classe 4-5		ISO 10545-14
	RELEASE DI SOSTANZE PERICOLOSE / RELEASE OF HAZARDOUS SUBSTANCES / REJET DE SUBSTANCES DANGEREUSES / FREISETZUNG GEFAHRLICHER STOFFE / LIBERACIÓN DE SUSTANCIAS PELIGROSAS / CADIMO (in mg/dm²) - PIONIMO (in mg/dm²)	No sono ammesse le emissioni di sostanze nocive per l'ambiente e per la salute umana. / No hazardous substances shall be emitted into the environment or to human health. / No substances harmful to the environment or to human health shall be emitted.				CONFORME/CONFORMING CONFORME/CONFORM CONFORME			DM-1-2-2007-Reg-CE-1935-2004
	RESISTENZA A BASSE CONCENTRAZIONE DI ACIDI E ALCALI / RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS / RESISTANCE À BASSES CONCENTRATIONS D'ACIDES ET D'ALCALIS / WIDERSTAND GEGEN NIEDRIGE KONZENTRATIONEN VON SAUREN UND LAUGEN / RESISTENCIA A BAJAS CONCENTRACIONES DE ÁCIDOS Y ALCALIS	COME DICHIARATO DAL PRODUTTORE SEE MANUFACTURER'S DECLARATION SEGUN DECLARACIÓN DEL PRODUCTOR ENTSPRECHENDS DER HERSTELLERERKLÄRUNG DECLARA EL FABRICANTE				LB	LA	LB	ISO 10545-13
	RESISTENZA AI PRODOTTI CHIMICI DI USO DOMESTICO E AGLI ADDITIVI PER PISCINE / RESISTANCE TO DOMESTIC CHEMICAL PRODUCTS AND ADDITIVES FOR SWIMMING POOLS / RÉSISTANT AUX PRODUITS CHIMIQUES À USAGE DOMESTIQUE ET AUX ADDITIFS POUR PISCINE / WIDERSTAND GEGEN HAUSHALTS-GEWÄSSEN UND / SCHWIMMBADZUSATZSTOFFEN / RESISTENCIA A PRODUCTOS PARA LIMPEZA DOMÉSTICA Y ADITIVOS PARA PISCINAS	MIN B				A			
	COEFFICIENTE D'ATTRITO (SCHELEGITÄT) / FRICTION COEFFICIENT (SLIP-RESISTANCE) / COEFFICIENT DE FROTTEMENT (COÛSSEMENT) / REIBUNGSKOEFFIZIENT (SCHLEIFRIGKEIT) / COEFFICIENTE DE ANTI DESLIZAMIENTO					10° < α ≤ 19° R10			DIN EN 16165 ANNEX B
						18° ≤ α < 24° classe B			DIN EN 16165 ANNEX A
						> 0,42 wet			ANSI A 326.3
Per un effetto ottimale della posa, l'opera suggerisce di mantenere 2 mm di fuga per pose monoformato e 3 mm per combinato formato misto. / For optimal installation results, forum recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats. / Pour obtenir un effet béton, il est conseillé de maintenir une joint de 2 mm 1/12" pour les combinaisons de formats mixtes. / Um einen optimalen Effekt betrie zu erzielen, empfiehlt die forum eine 2 mm fugen bei einfarbigen verlegungen und 3 mm fugen bei formatmischigen verlegungen und 3 mm fugen bei formatmischigen verlegungen. en la posa de combinados, en la posa de combinados, monoformato y 3 mm en combinados de formatos mixtos.									

Per un effetto ottimale della posa, florin suggerisce di mantenere 2 mm di fuga per posa monofornata e 3 mm per combinare formati misti / For optimal installation results, florin recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats / Pour réaliser une pose parfaite, florin suggère de maintenir 2 mm de joint pour la pose des monofornats, et 3 mm pour les combinaisons de formats mixtes / Um ein optimalen Effekt beim Verlegen zu erzielen, empfiehlt florin eine 2 mm-Fuge bei einfarbigen Verlegungen und 3 mm-Fuge bei Formalkombinationen / Para lograr los mejores resultados en la posa del producto, florin aconseja 2 mm de junta en aplicaciones monofornato y 3 mm en combinaciones de formatos mixtos.

Manufacturer Details:

European Ceramics Approved

BPIR COMPLIANT

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Website: euroceramics.co.nz

ONYX&MORE

GRES FINE PORCELLANATO/FINE PORCELAIN STONEWARE/GRES CERAME FIN/FEINSTEINZEUG-KOLLEKTIONEN/GRES PORCELÁNICO FINO
SQUADRATO - SQUARED - EQUARRI - REKTIFIZIERT - ECUADRADO

20 mm 3/4" 

CARATTERISTICHE TECNICHE - TECHNICAL CHARACTERISTICS - CARACTERISTIQUES TECHNIQUES - TECHNISCHE EIGENSCHAFTEN - CARACTERÍSTICAS TÉCNICAS						
Leatre in gres fine porcellanato non smaltato. Pastiglie di ceramica pressate a secco. Caratteristiche di qualità secondo i test di controllo previsti dalla norma EN 1441-ISO 13006. Appendice G gruppo B1a UGL/ Unglazed porcelain stoneware slabs. Dry-pressed ceramic tiles. Quality specifications, according to control tests of EN 1441-ISO 13006. Appendix G group B1a UGL/ D'elles en gres cérame fin non émaillé. Carreaux céramiques pressés à sec. Caractéristiques de qualité d'après les essais de contrôle norme EN 1441-ISO 13006. Appendice G groupe B1a UGL/ Nicht glasierte und vollständig gepresste Porzellansteingelassen. Trocken gepresste Keramikfliesen. Qualitätseigenschaften nach Normen EN 1441-ISO 13006. Anhang G Gruppe B1a UGL/ Panchas de gres porcelánico fino no esmaltado. Baldosas de cerámica prensadas a seco. Características de calidad según las Normas EN 1441-ISO 13006. Apéndice G grupo B1a UGL.		PRESCRIZIONE STANDARD REQUIREMENTS PRÉSCRIPTIONS ANFORDERUNGEN PRESCRIPCIÓN		RISULTATI TESTS TEST RESULTS RÉSULTATS DES ESSAIS PRÜFERGEBNISSE RESULTADOS TESTS		RIFERIMENTO NORMA REFERENCE STANDARD RÉFÉRENCE NORME STANDARTWERT REFERENCIA NORMA
		N ≥ 15 cm		grip		
		(%)	(mm)			
	LUNGHEZZA E LARGHEZZA: DEVIAZIONE AMMESSIBILE, IN %, DELLA DIMENSIONE MEDIA DI OGNI PASTIGLIA DALLA DIM. DI FABBRICAZIONE / LENGTH AND WIDTH ADMITTED DEVIATION, IN %, OF THE AVERAGE SIZE OF EACH TILE FROM THE PRODUCTION DIMENSIONS / LONGUEUR ET LARGEUR : MARGE DE TOLÉRANCE, EN %, ENTRE LA DIMENSION MOYENNE DE CHAQUE CARREAU ET LA DIMENSION DE FABRICATION / LÄNGE UND BREITE: ZULASSE ABWEICHUNG DES DURCHSCHNITTMAßES JEDER FLIESE VOM HERSTELLUNGSMAß (PROZENTEN) / 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 %	
	DEVIAZIONE AMMESSIBILE, IN PERCENTO, DELLO SPESORE MEDIO DI OGNI PASTIGLIA DALLA DIMENSIONE DI FABBRICAZIONE / ADMITTED DEVIATION, IN %, OF THE AVERAGE THICKNESS OF EACH TILE FROM THE PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE, EN POURCENTAGE, ENTRE L'ÉPAISSEUR MOYENNE DE CHAQUE CARREAU ET LA DIMENSION DE FABRICATION / ZULASSE ABWEICHUNG DER DURCHSCHNITTSTÄRKE JEDER FLIESE VOM HERSTELLUNGSMAß (PROZENTEN) / DESVIACIÓN ADMISIBLE, EN TANTO POR CIENTO, DEL GROSOR MEDIO DE CADA BALDOSA A PARTIR DEL TAMAÑO DE FABRICACIÓN	Squadrato ISO 13006	±5 %	±0,5 mm	±5 %	
	DEVIAZIONE MASSIMA DI RETTILINEITÀ IN PERCENTO IN RAPPORTO ALLE DIMENSIONI DI FABBRICAZIONE / CORRESPONDENTI MAXIMUM STRAIGHTNESS DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE DE RECTITUDE, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / CORRESPONDANTES / ZULASSE HOCH-RECHTWECHUNG DER KANTENGERADIGKEIT IM VERHÄLTNIS ZU DEN ENTSPRECHENDEN HERSTELLUNGSMAßEN (PROZENTEN) / DESVIACIÓN MÁXIMA DE RECTITUD, EN TANTO POR CIENTO, 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 RIGHT-ANGLE DEVIATION, IN %, IN RELATION TO THE CORRESPONDING PRODUCTION DIMENSIONS / MARGE DE TOLÉRANCE, EN POURCENTAGE, PAR RAPPORT AUX DIMENSIONS DE FABRICATION / HOCHSTABWEICHUNG DER RECHTWINKELIGKEIT IM VERHÄLTNIS ZU DEN ENTSPRECHENDEN HERSTELLUNGSMAßEN (PROZENTEN) / DESVIACIÓN MÁXIMA DE LA ORTOGONALIDAD, EN TANTO POR CIENTO, EN RELACIÓN CON EL TAMAÑO DE FABRICACIÓN CORRESPONDIENTE	Squadrato ISO 13006	±0,3 %	±1,5 mm	±0,2 %	
	PLANARITÀ CURVATURA DEL CENTRO DELLO SPIGOLO E SVERGOLAMENTO / FLATNESS CURVING IN THE MIDDLE CORNER AND BARRING / PLANÉTÉ COURBURE CENTRALE DE L'ARÊTE ET GAUCHÈSSEMENT / BEUGELÄCHIGKEIT KURVUNG DER MITTE DER KANTE UND VERWUNDUNG / PLANITUD CURVATURA DEL CENTRO DE LA ARISTA Y SARGOLLEAMIENTO	Squadrato ISO 13006	±0,4 %	±1,8 mm	±0,35 %	
QUALITÀ DELLA SUPERFICIE - SURFACE QUALITY / QUALITÉ DE LA SURFACE - QUALITÄT DER OBERFLÄCHE / CALIDAD DE LA SUPERFICIE		Il 95% min delle pastiglie deve essere esente da difetti visibili / At least 95% of the tiles must be free from visible flaws. 95% min des carreaux ne doivent présenter aucun défaut visible./Mindestens 95% der Fliesen müssen frei von sichtbaren m/h/b. 95% de las baldosas tiene que estar exento de defectos visibles.		CONFORME/CONFORMING CONFORME/KONFORM CONFORME		
	MASSA D'ACQUA ASSORBITA IN % / % WATER ABSORPTION - MASSE D'EAU ABSORBÉE EN % / WASSERAUFNAHME IN % / MASA DE AGUA ABSORBIDA EN %		Es0,5 %	valore medio 0,08 %		ISO 10545-3
	FORZA DI ROTTURA IN N (gr. ≥ 75 mm) / BREAKING STRENGTH IN N (thickness ≥ 75 mm) / FORCE DE RUPTURE EN N (pa ≥ 75 mm) / BRUCHLAST IN N (dicke ≥ 75 mm) / FUERZE DE ROTUR EN N (gr. ≥ 75 mm)		≥1300 N	CONFORME/CONFORMING CONFORME/KONFORM CONFORME		ISO 10545-4
	RESISTENZA ALLA FLESSIONE IN N/mm² / N/mm² FLEXURAL STRENGTH TEST / RESISTANCE A LA FLEXION EN N/mm² / BEUGESTÄRKE IN N/mm² / RESISTENCIA A LA FLEXIÓN EN N/mm²		≥35 N/mm²	valore medio 52 N/mm²		ISO 10545-4
	RESISTENZA ALL'ABRASIONE PROFONDA DELLE PASTIGLIE NON SMALTATE / RESISTANCE TO DEEP ABRASION OF UNGLAZED TILES / RESISTANCE À L'ABRASION PROFONDE DES CARREAUX NON ÉMAILLÉS / TIEFENABREIßFESTIGKEIT UNGLASERTER FLIESEN / RESISTENCIA A LA ABRASIÓN PROFUNDA DE LAS BALDOSAS SIN ESMALTAR		≥175 mm³	valore medio 140 mm³		ISO 10545-6
	RESISTENZA AGLI SHOCK TERMICI / THERMAL SHOCKS RESISTANT / RÉSISTANCE AUX VARIATIONS THERMIQUES TEMPERATURAUSCHWANKUNGEN / RESISTENZIALI SHOCK TERMICO	Método di prova disponibile Available testing method Méthode d'essai disponible Verfügbare Prüfmethode Método de ensayo disponible	RESISTE - RESISTANT RESISTE - ERFÜLLT RESISTE			ISO 10545-9
	RESISTENZA ALLE MACCHIE / RESISTANCE TO STAINING / RÉSISTANCE AUX TACHES / FLECKENABWEISEND RESISTENCIA A LAS MANCHAS	Método di prova disponibile Available testing method Méthode d'essai disponible Verfügbare Prüfmethode Método de ensayo disponible	Classe 4			ISO 10545-14
	RESISTENZA A BASSE CONCENTRAZIONI DI ACIDI E ALCALI / RESISTANCE TO LOW CONCENTRATIONS OF ACIDS AND ALKALIS / RESISTANCE À BASSES CONCENTRATIONS D'ACIDES ET D'ALCALS / WIDERSTAND GEGEN NIEDRIGE KONZENTRATIONEN VON SÄUREN UND LAUGEN / RESISTENCIA A BAJAS CONCENTRACIONES DE ÁCIDOS Y ALCALIS	CONFE DICHIAMATO DAL PRODUTTORE SEE MANUFACTURER'S DECLARATION SECON DECLARATION DU PRODUCTEUR ENTSPRECHEND DER HERSTELLERERKLÄRUNG EL CONFE DICHAU EL FABRICANTE		HA		ISO 10545-13
	RESISTENZA A ALTE CONCENTRAZIONI DI ACIDI E ALCALI / RESISTANCE TO HIGH CONCENTRATIONS OF ACIDS AND ALKALIS / RESISTANCE À HAUTES CONCENTRATIONS D'ACIDES ET D'ALCALS / BESTÄNDIGKEIT GEGEN STARK KONZENTRIERTE SÄUREN UND LAUGEN / RESISTENCIA A ALTAS CONCENTRACIONES DE ÁCIDOS Y ALCALIS	Método di prova disponibile Available testing method Méthode d'essai disponible Verfügbare Prüfmethode Método de ensayo disponible	LA			
	RESISTENZA AI PRODOTTI CHIMICI DI USO DOMESTICO E AGGIUNTIVI PER PISCINE / RESISTENCE TO DOMESTIC CHEMICAL PRODUCTS AND ADDITIVES FOR SWIMMING POOLS / RESISTENT AUX PRODUITS CHIMIQUES À USAGE DOMESTIQUE ET AUX ADJUTIFS POUR PISCINE / WIDERSTAND GEGEN HAUSHAUT-EMWALZEN UND SCHWIMMBADZUSATZSTOFFEN / RESISTENCIA A PRODUCTOS PARA LIMPIEZA DOMÉSTICA Y ADITIVOS PARA PISCINAS	B min	A			
	RESISTENZA AL GELÖ / FROST RESISTANCE - RESISTANCE AU GEL / FROSTGE-ERHEIT - RESISTENCIA A LA HELADA	RECHTIGT / REQUIRED REQUIRE / DEFORDIET REQUIRE	RESISTE - RESISTANT RESISTE - ERFÜLLT RESISTE			ISO 10545-12
	COEFFICIENTE D'ATTRITO (SCIVOLosità) / FRICTION COEFFICIENT (SLIPPERINESS) / COEFFICIENT DE FRICTION (GLISSANT) / REIBUNGSKOEFFIZIENT (SCHLÜPFRIEGKEIT) - COEFICIENTE DE ANTI-DESLLIZAMIENTO	-	= 0,40		METODO BCRA	
			> 0,42 wet		ANSI A 326.3	
			19° < α ≤ 27° R11		DIN EN 10605 ANNEX B	
		α ≥ 24° classe C		DIN EN 10605 ANNEX A		

Per un effetto ottimale della posa, l'inter-suggerisce di mantenere 2 mm di fuga per pose monofornate o 3 mm per combinare formati misti. / For optimal installation results, l'inter recommends maintaining a joint of 2 mm 3/16" for single format installations and 3 mm 1/8" for combine mixed formats. / Para lograr los máximos resultados en la posa del producto, l'inter aconseja 2 mm de junta en aplicaciones monofornate y 3 mm en combinaciones de formatos mixtos. / Um einen optimalen effct beim Verlegen zu erzielen empfiehlt l'inter eine 2 mm fugen bei formatmonotagen verlegungen und 3 mm fugen bei formatkombinationen. / Para lograr los máximos resultados en la posa del producto, l'inter aconseja 2 mm de junta en aplicaciones monofornate y 3 mm en combinaciones de formatos mixtos.

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Website: euroceramics.co.nz

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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