

# NATURALIA RANGE

Product Name: **NATURALIA - 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** 

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
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	*	*	*

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

## **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.

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

#### 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.

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

## **Technical Information**

## Naturalia

- Gres Porcellanato • Porcelain Stoneware • Grès Cérame Émaillé • Feinsteinzeug • Gres Porcelánico • Керамогранит



	Í			Ē			
Imbelli Packing Emballages Verpackungen Embalajes Улаковки	Pezzi Pieces Stck Pièces Piezas Штуки	Mq Sq. Mt Qm Mq Mq Kв.м	Kg Kr	Scatole Box Karton Boite Caja Коробки	Mq Sq. Mt Qm Mq Mq Kв.м	Kg Kr	Spessore Thickness Stärke Epaisseur Espesor Толщин
100x100 Rettificato	2	2	40,20	24	48,00	964,82	8,50
100x100 Strutturato Rettificato	2	2	40,20	24	48,00	964,82	8,50
60x120 Rettificato	2	1,44	28,21	36	51,84	1.015,48	8,50
60x120 Strutturato Rettificato	2	1,44	28,21	36	51,84	1.015,48	8,50
60x60 Rettificato	3	1,08	20,21	40	43,20	808,23	8,50
30,3x30,3 Mosaico	4	0,37	10,00	60	22,03	600,00	8,50
7x60 Battiscopa	10	6,0 ml	8,70	-	-	-	8,50
7x100 Battiscopa	10	10,0 ml	14,30	-	-	-	8,50

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

- Technical Features • Caracteristiques Techniques • Technische Eigenschaften • Caracteristicas Tecnicas • Технические Характеристики

		Metodo di prove = Testing method = Méthode d'essai = Prüfmethode = Método de presba = Merog eccnenzess	Unità di misura + Messurement unit • Unità de mesure + Mallaintait + Unidad de medida + Egreseus etamperare	Valora Tipici Medi - Average Typical Valora - Valeura Moyennes Typiques - Typicche Durchschnittewerts - Valoras Tipicca Medica - Opegnes Tentennes Seavenes	Valori limita previsti + Established limita • Valeurs limitas Prévues + Vorgesahene Grenzwerta • Valores limite previsto • Предусмотранные предельные значение	Norma di riferiment Reference atandard Norme de référence • Bezugenorm • Norma de referencia • Стандарт для
	Assorbimento d'acque in % • Water absorption in % • Absorption d'asu en % • Wasseraufnahme in % • Absorción de agus en % • Bogonomouseses %	ISO 10545-3	x	×0,5	≥ 0,5 Valore massimo singolo 0,6% Masimum single value 0,6% Valor unique masimale 0,6% Höchayer Einzelvert 0,6% Valor único máximo 0,6% Macmenanesco organesco seavenee 0,6%	
ł	Dimensioni + Dimensions • Dimensions + Abmessungen • Dimensiones + Размеры				N a 15 cm	
	Lunghezza e Larghezza (a) + Length and width + Longueur et largeur + Länge und Breite + Longitud y anchura + Длена и шерена				(max 5 mm)	10
	Lunghezza e Larghezza (b) e Langth and width e Longueur et largeur e Länge und Breite e Longitud y anchura e Длина е ширина				z 0,6% z 2 mm	5.U
	Spensore + Thickness + Epsisseur + Stärke + Espesor + Torausea			Conforme alla norms Conforme • Complies with the standards	z 5% z 0,5 mm	UNI EN 14411-G
	Rettilneitä degli spigoli • Edge straightness • Rectitude des antes • Geradlinigkeit der Kanten • Rectitud de los cantos • Прямолинейность промок	ISO 10545-2	mm S	Conforme sus normes. Anforderungen erfüllt. Conforme con las normas. Coorsercrayer норме.	= 0,5% = 1,5 mm	e ()
	Ortogonalitá • Orthogonality • Orthogonalitá • Rechtwinkligkeit • Ortogonalidad • Optorowanewocte				z 0,5% z 2 mm	22
	Planarità (c) + Fistness + Planéité + Ebanflächigkeit + Planeidad + Плоскостность	4			: 0,5% : 2 mm	
	Aspetto • Appearance • Aspekt • Aspect • Aspecto • Внешний вид				= 95%	<b>*</b> (* 1900)
]	Resistenza alla flessione + Bending strength + Résistance à la flesion • Biogefestigkeit + Resistencia a la flesión + Comportanzese caratóy	150 10545-4			<b>-</b>	

Manufacturer Details: European Ceramics Approved **BPIR COMPLIANT** 

(a) Differenza ammissibile tra dimensione di fabbricazione e dimensione nominale • Permissible difference between work size and nominal size • Difference admissible entre la dimension de fabricación nominale. • Zulässige Differenz zwischen Werksmaß und Nennmaß • Differencia admisible entre medida de fabricación y medida nominal. • Допустимая разница между фактическим размером изделия и номинальным

(b) Deviazione ammissibile in % oppure mm della dimensione media di una singola piastrella (2 o 4 lati) dalla dimensione di fabbricazione • Permissible % or mm variation in the average size of a single tile (2 or 4 sides) from the work size • Déviation admissible en % ou en mm de la dimension moyenne d'un seul carreau (2 ou 4 côtés) per rapport à la dimension de fabrication Zulfassige Abweichung, in % oder mm, der mitterne • Größe einer Einzellfisse (2 der 4 siellen) vom Warksmaß / En porcensite, desviación admissible del tamaño medio de un solo azulejo (2 o 4 lados) con respecto a la medida de fabricación • Допустимое отклонение в % или в мм среднего размера каждой плитки (2 или 4 стороны) от фактических размеров.

		Metodo di prova • Testing method • Méthode d'essai • Prüfmethode • Método de prueba • Метод испытания	Unità di misura + Messurement unit • Unità de mesure + Maŝeinhei: Unitàd de medida + Единица измерения	Valori Tipici Medi • Average Typical Values • Valeurs Moyennes Typiques • Typiache Durchschrittwerts • Valores Tipicos Medios • Средние Типичные Значения	Valori limite previsti • Established limita • Valeurs limites Prévues • Vorgeschane Granzwerte • Valores limite previstos • Предусмотренные предельные значения	Norma di riferimento Reference standard • Norme de référence • Bezugsnorm • Norma de referencia • Crawgapt для
	Module di rottura • Modulus of rupture • Module de rupture • Biegefestigkeit • Módulo de rotura • Прочность на изгиб		N/mm <sup>a</sup>	z 35	Rr35 Valore singolo minimo 32 • Minimum single value 32 • Valeur unique minimale 32 • Geringer: Einzelwert 33 • Valer único mínimo 32 • Минимальное отдельное значение 32	
	Sforzo di rottura + Breaking strenght • Force de rupture + Bruchkraft • Esfuerzo de rotura + Предел прочности		N	× 1300	× 1300	
	Resistenza all'abrasione superficiale • Resistance to surface abrasion • Résistance à l'abrasion superficielle • Abriebfastigkeit • Resistencia a la abrasión superficial • Стойкость к поверхностному астиранию	Metodo interno • Internal method • Interna Methode • Méthode interno • Méthodo interno • Bisyspessesi метод	Classe interna + Internal class + Interne Klassifizierung + Classe interne + Clase interna + Вкутрежний класс	G		
•	Resistenza all'abrasione profonda • Resistance deep abrasion • Résistance à l'abrasion profonde • Tisfenabriséhéssigkait • Resistencia a la abrasión profunda • Устойчиво сть к глубокому истиранию	ISO 10545-6	-m²	s 175	s 175	
*	Resistenza al gelo + Frost resistance + Résistance au gel + Frostbeständigkeit + Resistencia a la helada + Moposocroikcoct	ISO 10545-12		Conforme • According to • Conforme • Gemäß • Conforme • Соответствует	Prova superata secondo la norma EN ISO 10545-1. • Test passed in accordance with the EN ISO 10545-1 standard. • Essai réussi conformément à la norme EN ISO 10545-1. Prúfung gemäise EN ISO 10545-1 bestanden. • Prueba superada de conformidad con la norma EN ISO 10545-1. • Προλφικό испытаник на contrestretare crasgapry EN ISO 10545-1.	UNI EN 14411-G
*	Resistenza sgli sbalzi termici + Thermal shock resistance + Résistance aux écerts de température + Temperaturve chestlesettindişkeit • Resistencia al choque térmico + Croixeccrs x tennomum nepenagau	ISO 10545-9		Conforme • According to • Conforme • Gemäß • Conforme • Coorsetcrayet	Prova superata secondo la norma EN ISO 10545-1. • Test passed in accordance with the EN ISO 10345-1 standard. • Essai réussi conformément à la norme EN ISO 10545-1. • Prueba superada de conformidad con la norma EN ISO 10545-1. • Προλgeno испытание на contractorase стандарту EN ISO 10545-1.	
<b></b>	Coefficiente di dilatazione termica lineare « Linear thermal expansion coefficient « coefficient linéaire de dilatation thermique « Linearer Wirmeausdehnungskoefficient « Coeficiente de dilatación térmica lineal « Kosoфørupeer ланейного теплового расшарения	ISO 10545-8	×10 <sup>4</sup> /*C	s 9	Valore dichiarato • Value declared • Valeur déclarée • Erklärter wert • Valor declarado • Заявленное зжачение	

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

- Technical Features • Carácteristiques Techniques • Technische Eigenschaften • Carácterísticas Técnicas • Технические Характеристики

	Testing method • Méthode d'essai • Prüfmethode • Método de prueba • Metog schwraews	Unità di misura + Masurement unit • Unità de mesura + Maßeinheit + Unidad de medida • Единица комерения	Valors Tipici Medi - Average Typical Valors - Valeurs Moyennas Typiques - Typiche Durchschnittwarts - Valores Tipicos Medica - Cpagiwe Tenervisie Skavesee	Valori limite previati Established limita • Valori limite préviat: Vorgasehane Granzwarte • Valoria limite previatos • Предусмотранные предельные значения	Norma di riferimente Reference standard • Norma de reférence • Bezuganorm • Norma de referencia • Стандарт для
Resistenza alle macchie + Stain resistance + Résistance aux taches + Fleckerbattindigkeit + Resistencia a las manchas + Стойкость к лятноо бразоевнию	ISO 10545-14		Classe 5 • Class 5 • Classe 5 • Klasse 5 • Categoria 5 • Knacc 5	Classe 3 minimo • Class 3 minimum • Classe 3 minimum • Mind. Klasse 3 • Categoria 3 minimo • Maxeevya Kriscc 3	
Resistenza si prodotti chimici di uso domestico e sali per piscina • Resistance to chemicala for household use and swimming pol salta • Resistance aux produita chimiques d'usage domestique et sali pour piscine • Bestindigheit gegen Haushaltachemikalien und Zusätze für Schwimmbider • Resistancia a los productos quimicos para uso doméstico y sales para piscina • Croikoorta к бытовым ялимическим средствам и солям для быссейнов			*	8 Minimo + 8 Minimum + 8 Minimum + 8 Minimum + 8 Minimo + 8 менемальный	UNI EN 14471-G
Resistenza sgli scidi ed alle basi • Resistance to acida and bases • Résistance aux acides et aux bases • Săure - und Laugenbestindigkeit • Resistencia a los ácidos y a las bases • Стойкость к кислотам и щелочам	ISO 10545-13		LA-LB HA-HB	Valore dichiarato • Value declared • Valeur déclarée • Erklärter wert • Valor declarado • 3asanes-ное эначение	•
Resistenza dei colori alla luce • Colour resistance to light exposure • Résistance des couleurs à la lumière • Lichtechtheit der Farben • Resistencia de los colores a la exposición de la luz • Ceerocroikcocrь цевтов	DIN 51094	-	Conforme • According to • Conforme Gemäß • Conforme • Coorsercrayer	Non devono presentare apprezzabili alterazioni di colore. « No sample must show noticeable colour modifications. « Aucun échantilon ne doit présenter d'altérations appréciables de couleur. « Kein Muster darf sichtbare Farbvarinderungen sufweisen. « Ninguna muestra ha de presentar alteraciones apreciables de color. « He должне обнаруживать существенние изменения циета.	
Resistenza allo scivolamento • Silp resistance • Résistance au glissement • Rutschhemmung • Resistencia al deslizamiento • Сопротивление проскальзыванию	-				
Naturalia Nat.	RAMP METHOD		Ro	da R9 a R13 + from R9 to R13 + de R9 à R13 + von R9 bis R13 + de R9 a R13 + or R9 go R13	DIN EN 16165 Appendix B*
Naturalia Nat. C2			R10		
Naturalia Strutt.			Rm		

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

		Metodo di prova • Testing method • Méthode d'essai • Prüfmethode • Método de prueba • Метод испытания	Unità di misura • Messurement unit • Unità de mesure • Maßeinheit • Unidad de medida • Единица измерение	Valori Tipici Medi - Average Typical Valora - Valeuru Moyanesa Typiqoea • Typiche Durchschnittawerte • Valoras Tipicos Medica • Средние Типичные Значения	Valeri limite previsti • Established limits • Valers limite prévuse • Vorgesshene Grenzwerte • Valores limite previstos • Предусмотренные предельные значение	Norma di riferiment Reference atandard Norme de référence • Bazuganorm • Norma de referencia • Стандарт для
Ł	Resistenza allo scivolamento • Sip resistance • Résistance au glassment • Ratachhemmung • Resistencia al deslizamiento « Conportanesee mpoconsusmeseo Naturalia Nat. C2	RAMP METHOD			da A a C from A to C de A à C von A bin C de A a C	DIN EN 16165 Appendix A**
	Naturalis Strutt.			c	or Ago C	
Ľ	Resistenza allo scivolamento + Sip resistance + Résistance au glissement - Rutschhermung + Resistencia al deslizarriento + Conportenzesse ckonsocesso					
	Naturalia Nat.	Pendulum		Classe 1 / Class 1 / Classe 1 Klasse 1 / Categoria 1 / Knacc 1		UNE 41901:2017 EX
	Naturalia Nat. C2			Classe 2 / Class 2 / Classe 2 Klasse 2 / Categoria 2 / Knacc 2		DB SUA (actual)
	Naturalia Strutt.			Classe 3 / Class 3 / Classe 3 Klasse 3 / Categoria 3 / Knacc 3	-	
Ľ	Coefficiente di attrito medio • Mean coefficient of friction • Coefficient de frottament moyan • Mittlerer Reibungskoefficient • Resistencia al desizamiento medio • Cpegaelà	BCR	*	u > 0,40	u>0,40	D.M. N*236 14/6/8

N Dimensione nominale (cm) + Nominal dimension (cm) + Dimension nominale (cm) + Nennmaß (cm) + Dimensión nominal (cm) + Номинальный размер (см)

\* Pavimentazioni di ambienti lavorativi e zone operative con superfici sdrucciolevoli. • Flooring of work environments and operating areas with slippery surfaces. • Sols de locaux industriels et de zones de travail à surfaces déraparties. • Fußböden in Arbeitsnäumen und Arbeitsbereichen mit Rutschgefahr. • Pavimentaciones de zones de trabajo y operativas con superficies resbaladizas. • Полы в рабочих помещениях и рабочих зонах со скользиями поверхностями.

\*\* Pavimentazioni per zone bagnate con calpestio a piedi scalzi. • Flooring for wet areas to be walked on barefoot. • Sols pour zones mouillées avec piétinement pieds nus. • Bodenbeläge in nassbalasteten Barfußbereichen. • Pavimentaciones para zonas mojedas donde se camina con pies descalzos. • Полы для влажных зон, предначенные для хождения по ним боснком.

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT

### 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

Manufacturer Details: European Ceramics Approved BPIR COMPLIANT