

LOIRE

EN 14411:2012 Annex G Group Bla GL

TECHNICAL FEATURE	TEST METHOD	REQUIRED STANDARDS	LOIRE
SIZES AND LOOK OF THE TILE	ISO 10545-2	Length and width $\pm 0,6\%/\pm 2.0\text{mm}$ Thickness $\pm 5\%/\pm 0.5\text{mm}$ Straightness of sides $0,5\%/\pm 1.5\text{mm}$ Rectangularity $\pm 0,5\%/\pm 2.0\text{mm}$ Surface flatness $\pm 0,5\%/\pm 2.0\text{mm}$ Surface quality: 95% of tiles with no defaults	Compliant Compliant Compliant Compliant Compliant
WATER ABSORPTION	ISO 10545-3	$\leq 0.5 \%$	0,1 % (average values referred to the last production)
AVERAGE BENDING STRENGTH	ISO 10545-4	35 N/mm ² min.	45,5 N/mm ² (average values referred to the last production)
BREAKING STRENGTH	ISO 10545-4	Thickness $\geq 7,5 \text{ mm}$: 1300 N min.	Compliant
RESISTANCE TO SURFACE ABRASION	ISO 10545-7	State the PEI rate and covered cycles.	Avorio/Grigio/Taupe: Classe 4 (6000 rotations) Moka: Classe 4 (2100 rotations)
CRAZING RESISTANCE	ISO 10545-11	Required	Compliant
FROST RESISTANCE	ISO 10545-12	Required	Compliant
CHEMICAL RESISTANCE (DOMESTIC USE AND SWIMMING POOL CHEMICALS)	ISO 10545-13	min. UB	Compliant
STAIN RESISTANCE	ISO 10545-14	Min. class 3	Compliant

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COEFFICIENT OF FRICTION	B.C.R.A. METHOD (D.M. no. 236 of 14/06/1989 of Italian Republic)		DRY: > 0,40 WET: > 0,40
ANTISLIP PROPERTIES	DIN 51130 Metodo DIN EN 16165:2021 Annex B		Unpolished: R10 Esterno R11: R11
ANTISLIP PROPERTIES ON WET SURFACES	DIN 51097 Metodo DIN EN 16165:2021 Annex A		Unpolished: A+B Esterno R11: A+B+C
DYNAMIC COEFFICIENT OF FRICTION	DCOF ANSI A137-1:2012 ANSI A326.3		Unpolished: WET: $\geq$ 0.42

Valid only for items in 1st. choice.

On request we can certify conformity with standards that are not mentioned hereby

The special trims for the series, apart from those used for stair coverings, do not comply with the ISO EN 14411 standard.

Average values refer to tests which have been made on the unpolished surface if not otherwise specifically indicated.



(V3):
Tiles with moderate shade and aspect variation

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GRES PORCELLANATO EN 14411:2012 ALLEGATO G GRUPPO BIa UGL

Tutti i materiali Coem appartenenti a questa categoria sono conformi ai requisiti di norma.

All Coem materials in this category comply with statutory requirements.

Alle Materialien von Coem, die zu dieser Kategorie gehören, erfüllen die gesetzlichen Voraussetzungen.

Tous les matériaux Coem qui appartiennent à cette catégorie sont conformes aux critères normatifs.

CARATTERISTICA TECNICA TECHNICAL FEATURE TECHNISCHE EIGENSCHAFT CARACTERISTIQUE TECHNIQUE		METODO DI PROVA TEST METHOD PRÜFUNGS-METHODE METHODE D'ESSAI	REQUISITO NORMA REQUIRED STANDARDS NORMVORGABE VALEUR PRESCRITE SELON LA NORME		gresX2
	Dimensioni e Aspetto Sizes and look of the tile Abmessungen und Aussehen der Fliese Dimensions et Aspect du carreau	ISO 10545-2	Lunghezza e larghezza / Length and width Länge und Breite / Longueur et largeur Spessore / Thickness / Stärke / Epaisseur Ritornellità spigoli / Straightness of sides / Kantengeradheit Rectitude des arêtes Ortogonalità / Rectangularity / Rechtwinkligkeit Angolarità Planità / Surface flatness / Ebenheit / Planité Qualità della superficie: il 95% delle piastrelle esenti da difetti Surface quality: 95% of tiles with no defaults Qualitätsanforderungen für die Oberfläche: 95% der Fliesen ohne Schaden Qualité de la surface: 95% des carreaux sans défauts	±0,6% / ±2.0 mm ±5% / ±0.5 mm ±0,5% / ±1.5 mm ±0,5% / ±2.0 mm ±0,5% / ±2.0 mm	Conforme Compliant Konform Conforme
	Assorbimento d'acqua Water absorption Wasseraufnahme Absorption d'eau	ISO 10545-3	≤ 0,5% (Massimo valore singolo - Maximum single value Maximaler Einzelwert - Valeur individuelle maximale 0,6%)		< 0,2%
	Resistenza alla flessione media Average bending strength Mittlere Biegefestigkeit Résistance à la flexion moyenne	ISO 10545-4	35 N/mm² min. (Valore singolo - Single value - Einzelwert Valeur individuelle 32 N/mm² min.)		Conforme Compliant Konform Conforme
		EN 1339	-		T11*
	Sforzo di rottura Breaking strength Bruchlast Force de rupture	ISO 10545-4	Spessore / Thickness / Stärke / Epaisseur ≥ 7,5 mm: 1300 N min. < 7,5 mm: 700 N min.		10.000 N
	Resistenza all'abrasione profonda Resistance to deep abrasion Tiefenabriebfestigkeit Résistance à l'abrasion profonde	ISO 10545-6	175 mm² max.		145 mm²
	Resistenza al gelo Frost resistance Frostbeständigkeit Résistance au gel	ISO 10545-12	Richiesta - Required Notwendig - Requisite		Resistente Resistant Widerstandsfähig Résistant
	Resistenza agli agenti chimici (Uso domestico e additivi per piscina) Chemical resistance (Domestic use and swimming pool chemicals) Beständigkeit gegen Chemikalien (Gebrauch im Wohnbereich und Chemikalien für Schwimmbad) Résistance à l'attaque chimique (Usage domestique et additifs pour piscine)	ISO 10545-13	UB min min. UB UB mind min UB		UA Resistente Resistant Widerstandsfähig Résistant

* Valido solo per i formati quadrati - Valid only for square formats - Gilt nur für die quadratischen Formate - Valable uniquement pour les formats carrés

VALIDO SOLO PER I PRODOTTI 1° SCELTA

VALID ONLY FOR ITEMS IN 1ST CHOICE - NUR FÜR PRODUKTEN IN 1. SORTE GÜLTIG.

VALABLE SEULEMENT POUR LES PRODUITS EN 1ER CHOIX.

La conformità ad altre norme qui non espressamente citate può essere fornita su richiesta.

On request we can certify conformity with standards that are not mentioned hereby.

Die Erfüllung der Anforderungen anderer Normen, die hier nicht erwähnt worden sind, können wir Ihnen auf Anfrage zur Verfügung stellen.

La conformité aux autres normes, non citées, ci-dessus peut être fournie sur demande.

Gli elementi di comodo alle serie, esclusi quelli usati per rivestimento di scale, non rispondono alla normativa ISO EN 14411.

The special trims for the series, apart from those used for stair coverings, do not comply with the ISO EN 14411 standard.

Die Formteile der Serie, ausgenommen diejenigen für die Verkleidung von Treppen, entsprechen der Norm ISO EN 14411 nicht.

Les pièces coordonnées aux séries ne sont pas conformes à la norme ISO EN 14411, à l'exception de celles qui sont utilisées pour le revêtement des marches.

Valori medi riferiti alla nostra produzione, secondo test effettuati su superficie naturale se non esplicitamente indicati.

Average values refer to tests which have been made on the unpolished surface if not otherwise specifically indicated.

Die Mittelwerte beziehen sich auf Prüfungen, die für das Ausführungen unpoliert, wenn nicht anders deutlich angegeben, durchgeführt worden sind.

Valeurs moyens référant à notre production, tests effectués sur base de surface naturel si non autrement spécifié.

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GRES PORCELLANATO EN 14411:2012 ALLEGATO G GRUPPO B1a UGL

SERIE COEM CHE RISPONDONO ALLA NORMATIVA EN 14411:2012 ALLEGATO G GRUPPO B1a UGL E LORO CARATTERISTICHE QUALIFICANTI
 COEM SERIES THAT COMPLY WITH THE EN 14411:2012 ANNEX G GROUP B1a UGL STANDARD AND THEIR QUALIFYING CHARACTERISTICS
 COEM-SERIEN, DIE DER NORM EN 14411:2012 ANLAGE G GRUPPE B1a UGL ENTSPRECHEN UND IHRE QUALIFIZIERENDEN EIGENSCHAFTEN
 SERIES COEM CONFORMES A LA NORME EN 14411:2012 ANNEXE G GROUPE B1a UGL ET LEURS CARACTERISTIQUES DETERMINANTES

gresX2
 OUTDOOR DESIGN

SERIE - SERIES SERIE - SERIE	REAZIONE AL FUOCO EN 13823	CARATTERISTICA ANTISDRUCCIOLO METODO DIN 51130 Metodo DIN EN 16165:2021 Annex B *	CARATTERISTICA ANTISDRUCCIOLO SU BAGNATO METODO DIN 51097 Metodo DIN EN 16165:2021 Annex A *	COEFFICIENTE DI ATTRITO METODO B.C.R.A. D.M. 14/06/89 n° 236 par. 8.2.2
LOIRE 60,4x90,6 - 75x75	A1B-A1 (nessuna reazione*)	Esterno R11: R11	Esterno R11: A + B	DRY: > 0,40 WET: > 0,40

* Le serie evidenziate in rosso sono state testate con i nuovi metodi DIN EN 16165:2021 e ANSI A326.3.
 The series highlighted in red have been tested using the new DIN EN 16165:2021 and ANSI A326.3 methods.
 Les séries mises en évidence en rouge ont été testées avec les nouvelles méthodes DIN EN 16165:2021 et ANSI A326.3.
 Die rot hervorgehobenen Serien wurden mit den neuen Methoden nach DIN EN 16165:2021 und ANSI A326.3 getestet.

* Nessuna reazione - No reaction - Keine reaktion - Aucune réaction

I valori di resistenza allo scivolamento, coefficiente di attrito statico o dinamico, riportati sul catalogo sono da ritenersi puramente indicativi e non vincolanti.
 Ogni eventuale specifica necessità dovrà essere da noi confermata al momento dell'ordine e comunque sempre prima della posa.

The slip resistance values, static or dynamic coefficient of friction indicated in the catalogue are purely indicative and are not binding.
 Any specific needs must be confirmed by us at the time of order and in any case before laying.
 Die Rutschhemmungswerte sowie der statische und dynamische Reibungskoeffizient, die im Katalog genannt sind, sind reine Richtwerte und nicht bindend.
 Für alle diesbezüglichen Anforderungen muss bei der Bestellung und in jedem Fall vor dem Verlegen um Bestätigung angefragt werden.
 Les valeurs de résistance au glissement, coefficient de frottement statique ou dynamique indiquées dans le catalogue doivent être considérées comme étant purement indicatives et non contraignantes. Nous devons confirmer chaque éventuelle nécessité spécifique au moment de la commande et, dans tous les cas, toujours avant la pose.

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Ceramiche Coem is a member of the U.S. Green Building Council (USGBC), the American association that takes care of implementing and regulating the construction of sustainable buildings through LEED® certification (Leadership in Energy and Environmental Design). As a result of their technical and structural characteristics, our products can help buildings obtain a score based on LEED® parameters, and have been duly certified by the external certification body CERTIQUALITY.

Our products are compliant with LEED® requisites thanks to their high recyclable material content.

Our products have obtained the EPD (Environmental Product Declaration) for the sector, which provides environmental details on the life cycle of products, in accordance with the international standard ISO 14025, compliant with LEED® requisites.

The light refractive index of the porcelain stoneware support guarantees maximum heat insulation and excellent energy performance.

Hygienic and easy to clean, our products help improve the quality and safety of building interiors.

The eco-sustainable requisites do not affect the appearance of the product, and our porcelain stoneware is always on the leading edge of design and technological innovation.

Sustainable sites – Reduction of the heat island effect

Depending on the type of colour and use, the high SRI (Solar Reflectance Index) of Ceramiche Coem products can help reduce the heat island effect (the difference in the thermal gradient between urban and extra-urban areas) and its effects on the microclimate, human habitat and wildlife.

REQUISITES	Credits
OUTDOOR PAVING SRI > 33	1 point
LOW SLOPE ROOFS SRI > 82	1 point
HIGH SLOPE ROOFS SRI > 39	1 point

Materials and resources – Declaration and optimisation of construction products

Ceramiche Coem products can help improve LEED® rating in terms of materials and resources.

REQUISITES	Credits
SECTOR EPD	1/2 points
ORIGIN OF RAW MATERIALS – RECYCLED CONTENT	1 point
COMPONENTS – END PRODUCTS AND MATERIALS THAT DO NOT CONTAIN SUBSTANCES CLASSIFIED AS OF VERY HIGH CONCERN ACCORDING TO REACH CRITERIA	1 point

Low-emission materials

Ceramiche Coem products do not emit VOC (Volatile Organic Compounds).

REQUISITES	Credits
PRODUCTS THAT DO NOT CONTAIN VOC	1 point

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