

## FLOW

### EN 14411:2012 Annex G Group Bla UGL

TECHNICAL FEATURE	TEST METHOD	REQUIRED STANDARDS	FLOW
SIZES AND LOOK OF THE TILE	ISO 10545-2	Length and width $\pm 0,6\%/\pm 2.0$ mm	Compliant
		Thickness $\pm 5\%/\pm 0.5$ mm	Compliant
		Straightness of sides $\pm 0,5\%/\pm 1.5$ mm	Compliant
		Rectangularity $\pm 0,5\%/\pm 2.0$ mm	Compliant
		Surface flatness $\pm 0,5\%/\pm 2.0$ mm Surface quality: 95% of tiles with no defaults	Compliant
WATER ABSORPTION	ISO 10545-3	$\leq 0.5$ %	0,06 % (average values referred to the last production)
AVERAGE BENDING STRENGTH	ISO 10545-4	35 N/mm <sup>2</sup> min.	49,9 N/mm <sup>2</sup> (average values referred to the last production)
BREAKING STRENGTH	ISO 10545-4	Thickness $\geq 7,5$ mm: 1300 N min.	Compliant
RESISTANCE TO DEEP ABRASION	ISO 10545-6	175 mm <sup>3</sup> max.	Compliant
FROST RESISTANCE	ISO 10545-12	Required	Compliant
CHEMICAL RESISTANCE (DOMESTIC USE AND SWIMMING POOL CHEMICALS)	ISO 10545-13	min. UB	Compliant

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Cap. Soc. € 12.000.000,00 i.v. - Reg. Impr. di Modena e C.F. 01927780369  
R.E.A. Modena n° 252818 - Partita IVA: IT 01927780369

SISTEMI DI  
GESTIONE CERTIFICATI

**CQY**  
CERTIQUALITY

UNI EN ISO 9001:2015  
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COEFFICIENT OF FRICTION	B.C.R.A. METHOD (D.M. no. 236 of 14/06/1989 of Italian Republic)		Unpolished/Outdoor: DRY: > 0.40 WET: > 0.40
ANTISLIP PROPERTIES	DIN 51130		Unpolished: R10 Outdoor: R11
ANTISLIP PROPERTIES ON WET SURFACES	DIN 51097		Outdoor: A+B
DYNAMIC COEFFICIENT OF FRICTION	DCOF * (ANSI 326.3)		Unpolished/Outdoor: WET: > 0.42

\* DCOF Test on Honed surface available on request.

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	gres <b>WIDE</b> ISO EN 14411:2012
 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	±0,6% / ±2.0 mm	±0,15%
		Spessore / Thickness / Stärke / Epaisseur	±5% / ±0.5 mm	±5%
		Rettilinearità spigoli / Straightness of sides Kantengeradheit / Rectitude des arêtes	±0,5% / ±1.5 mm	±0,1%
		Ortogonalità / Rectangularity Rechtwinkligkeit / Angularité	±0,5% / ±2.0 mm	±0,2%
		Planarità / Surface flatness / Ebenheit / Planéité	±0,5% / ±2.0 mm	±0,2%
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				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%)		< 0,1%
 Resistenza alla flessione media Average bending strength Mittlere Biegefestigkeit Résistance à la flexion moyenne	ISO 10545-4	35 N/mm <sup>2</sup> min. (Valore singolo - Single value - Einzelwert Valeur individuelle 32 N/mm <sup>2</sup> min.)		> 50 N/mm <sup>2</sup>
 Resistenza all'abrasione profonda Resistance to deep abrasion Tiefenabriebfestigkeit Résistance à l'abrasion profonde	ISO 10545-6	175 mm <sup>2</sup> max.		Conforme Compliant Konform Conforme
 Resistenza al gelo Frost resistance Frostbeständigkeit Résistance au gel	ISO 10545-12	Richiesta - Required Notwendig - Requisite		Conforme Compliant Konform Conforme
 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		Conforme Compliant Konform Conforme

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 corredo 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 derjenigen 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 Ausführen 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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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			
SERIE SERIES SERIE SERIE	COEFFICIENTE DI ATRITO COEFFICIENT OF FRICTION (B.C.R.A. METHOD D.M. 14/06/89 n° 236 par. 8.2.2)	CARATTERISTICA ANTISDRUCCIOLO ANTI-SLIP PROPERTIES (DIN 51130)	DCOF AcuTest™ ANSI A137.1
FLOW Unpolished	DRY: > 0,40 WET: > 0,40	R10	WET: > 0.42



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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 SR > 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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ATTESTAZIONE DELLA  
PERCENTUALE DI RICICLATO



DT 55



High content of recycled material

SERIES	COLORS	<b>LEED® additional points for recycled material content Credits:</b> Building Product Disclosure and Optimization – Sourcing of Raw Materials
FLOW	WHITE BEIGE LIGHT GREY GREIGE DARK GREY	> 20% pre_consumer 1 Point

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