

IRON STONE



5 CORES
COLOURS

1 FORMATO REVESTIMENTO
WALL TILE SIZE

2 ESTRUTURAS
STRUCTURES

4 CORES
COLOURS

2 FORMATOS PAVIMENTO
FLOOR TILES SIZES

3 MOSAICOS
MOSAICS

Tendência "industrial chic"
com personalidade
vincadamente urbana.

Industrial-chic trend
with an urban personality.



IRON STONE | PRATA SILVER | 30x90 cm RTF 12"x35" RTF | 16046
IRON STONE | PRATA SILVER | 60x60 cm 24"x24" | 9246



IRON STONE | ÓXIDO OXIDE | 30x90 cm RTF 12"x35" RTF | 16048
IRON STONE | ÓXIDO OXIDE | 30x60 cm 12"x24" | 9248

IRON STONE

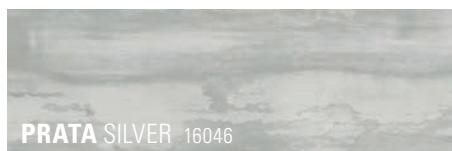
**METAL
EFFECT****30×90 cm RTF 12"×35" RTF**

10 mm 0.39 in 109

ALUMÍNIO	ALUMINUM	16044
ZINCO	ZINC	16045
PRATA	SILVER	16046
FERRUGEM	RUST	16047
ÓXIDO	OXIDE	16048

12 VARIAÇÕES GRÁFICAS
12 GRAPHIC VARIATIONS**MISTRAL****30×90 cm RTF 12"×35" RTF** 112**ALUMÍNIO** ALUMINIUM 16044

16044/450

**PRATA** SILVER 16046

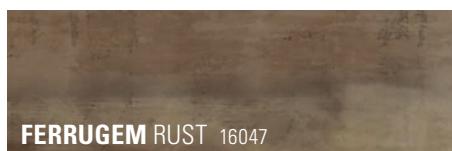
16046/450

**ÓXIDO** OXIDE 16048

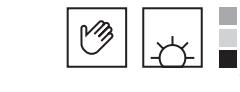
16048/450

**ZINCO** ZINC 16045

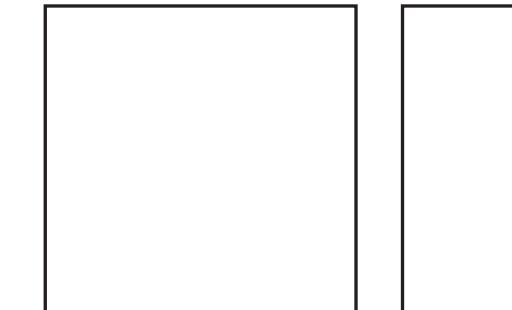
16045/450

**FERRUGEM** RUST 16047

16047/450



V4

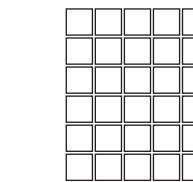
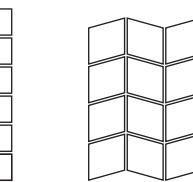
**60×60 cm 24"×24"**

8 mm 0.32 in 83

30×60 cm 12"×24"

8 mm 0.32 in 75

ZINCO ZINC	4	9245	9245
PRATA SILVER	4	9246	9246
FERRUGEM RUST	3	9247	9247
ÓXIDO OXIDE	3	9248	9248

12 VARIAÇÕES GRÁFICAS
12 GRAPHIC VARIATIONS**MOSAIKO 36**
MOSAICO 36**MOSAIKO INCLINADO 16**
MOSAIC INCLINED 16**MOSAIKO MURETO 16**
MOSAIC MURETO 1633×33 cm 13"×13"
8 mm 0.32 in 4929×29 cm 11"×11"
8 mm 0.32 in 5724×49 cm 9"×19"
8 mm 0.32 in 72

ZINCO ZINC	9245/640	9245/260	9245/016
PRATA SILVER	9246/640	9246/260	9246/016
FERRUGEM RUST	9247/640	9247/260	9247/016
ÓXIDO OXIDE	9248/640	9248/260	9248/016

Formato Size	Caixa Box			Palete Pallet			
	Pcs. Stk.	m ² / m	kg	Caixa / Paleta Box / Pallet	m ²	Net. kg	Brut. kg
REVESTIMENTO WALL TILES							
30×90×1 cm RTF 298×898 mm	4	1,0800 m ²	19,25	48	51,8400	924	949
Mistral · Leaf	30×90×1 cm RTF 298×898 mm	4	1,0800 m ²	19,25			120×100×85
PAVIMENTO FLOOR TILES							
60×60×0,8 cm	4	1,4400 m ²	24,94	32	46,0800	798	823
30×60×0,8 cm	7	1,2600 m ²	21,79	40	50,4000	872	897
Mosaiko 36 Mosaic 36	33×33×0,8 cm	9	0,9801 m ²	16,60			
Mosaiko Inc. 16 Mosaic Inc. 16	29×29×0,8 cm	9	0,7569 m ²	13,95			
Mosaiko Mur. 16 Mosaic Mur. 16	24×49×0,8 cm	7	0,8232 m ²	13,90			
Rodapé Bullnose	8×60×0,8 cm ROD	22	13,20 m	19,61			
	8×30×0,8 cm ROD	36	10,80 m	16,20			

IRON STONE

RODAPÉ
BULLNOSE**8×60 cm ROD** 3.15"×24" ROD
8 mm 0.32 in 27**8×30 cm ROD** 3.15"×12" ROD
8 mm 0.32 in 13**PRATA** SILVER 9246**ÓXIDO** OXIDE 9248**ZINCO** ZINC 9245**FERRUGEM** RUST 9247

INFORMAÇÃO TÉCNICA

TECHNICAL DATA

REVISÃO: Março 2022 **REVISÃO:** Março 2022

INFOGRAFIA \ INFOGRAPHICS INFOGRAPHIE \ SYMBOLE



Pavimento
Floor Tiles



Revestimento
Wall Tiles



Mate
Matt

ACABAMENTO DA ARESTA EDGE FINISHING



Retificado
Rectified



Não Retificado
Non Rectified

ACABAMENTO DA SUPERFÍCIE SURFACE FINISHING



NAT
Natural

ANTIDERRAPÂNCIA SLIP RESISTANCE



DIN 51130
Calcado
With Footwear



DIN 51097
Pé Descalço
Barefoot



Pendulum Test Value
PTV Slider 96



Pendulum Test Value
PTV Slider 55



ANSI A326.3
Dinamic Coefficient of Friction

OUTROS OTHER



Ingelivo
Frost Resistant



Resistência
à abrasão superficial
Resistance to surface abrasion

Menos resistente 1 2 3 4 5 Mais resistente

VARIAÇÃO NA TONALIZAÇÃO DA COR \ COLOUR SHADE VARIATION DIFFÉRENCE DE TONALITÉ \ FARBNSTIMMGKEIT

ANSI AI37.1–2012



Muito Uniforme
Very Uniform
V0



Fraca Variação
Low Variation
V1



Variação Ligeira
Slight Variation
V2



Variação Moderada
Moderate Variation
V3



Forte Destonalização
Substantial Variation
V4

O símbolo classifica a variação da tonalização da cor das peças cerâmicas de uma série.

RECOMENDAÇÕES PARA ASSENTAMENTO

Para obter melhores resultados das características do produto, a CINCA recomenda antes do assentamento a mistura das peças de várias caixas.

This symbol classifies the chromatic shade variation among pieces of tile in one range.

LAYING RECOMMENDATIONS

CINCA recommends blending different pieces from different cartons before installation, in order to maximize the aesthetic beauty of the product line.

Parmi les symboles nous indiquons le degré de variation chromatique entre les carreaux contenus dans chaque série.

RECOMMANDATION POUR LA POSE

Afin de tirer profit au mieux des caractéristiques techniques du produit, CINCA recommande de mélanger des pièces de différentes boîtes.

Mit den Abkürzungen will man den Farbabweichungsgrad jeder Fliese einer Serie Klassifizieren.

HINWEISE ZUR VERLEGUNG

Um die besten Resultate mit unserem Produkt erzielen zu können, schlägt CINCA vor, Fliesen von verschiedenen Kartons vor der Verlegung zu mischen.

Os pavimentos cerâmicos que estão dotados de características antiderrapantes contribuem dum forma eficaz e ativa para a segurança dos utilizadores. Estes produtos apresentam especificações particulares, das quais se destaca a resistência ao escorregamento. Com ampla divulgação na indústria cerâmica, as normas alemãs que permitem determinar o coeficiente de escorregamento subdividem os testes em dois grupos distintos: o escorregamento calçado, aplicável em zonas em que os utilizadores circulam normalmente calçados, e o escorregamento "pé descalço", aplicável a zonas em que os utilizadores circulam descalços, como piscinas, balneários, etc.

Os testes são conduzidos com recurso a equipamento especial e a uma pessoa que simula a circulação sobre o pavimento (ora calçado ora descalço, consoante o teste que se pretende levar a cabo), num plano inclinado que gradualmente vai aumentando o seu ângulo de inclinação. O ângulo máximo atingido antes do desequilíbrio determina o grupo de antiderrapância que permite classificar os produtos.

CLASSE CLASS (DIN 51130) – Calçado With Footwear		Ângulo de Inclinação Slope Angle
	Baixo atrito Low friction	de 6° a 10° from 6° to 10°
	Atrito normal Normal friction	acima de 10° até 19° more than 10° to 19°
	Atrito Melhorado Improved friction	acima de 19° até 27° more than 19° to 27°
	Alto atrito High friction	acima de 27° até 35° more than 27° to 35°
	Muito alto atrito Very high friction	acima de 35° more than 35°

CLASSE CLASS (DIN 51097) – Pé Descalço Barefoot		Ângulo de Inclinação Slope Angle
	Atrito normal Normal friction	≥ 12°
	Atrito Melhorado Improved friction	≥ 18°
	Alto atrito High friction	≥ 24°

PENDULUM TEST VALUE (PTV)	
BS 7976-2:2002+A1:2013	
ENV 12633:2003	
	PTV Slider 96
	PTV Slider 55
PTV – High Risk – 0-24	
PTV – Moderate Risk – 24-35	
PTV – Low Risk – 36+	

Ceramic floor tiles developed with slip resistant characteristics contribute actively to the safety of the users. Amongst the many particular specifications of these products, the slip resistance are notable. Well known in the Ceramic Industry, the German standards, which help determine the slip resistance coefficient, divide the tests into two groups. In the first group, the tests are executed simulating the use of footwear. In the second group, the tests are run simulating barefoot traffic in areas such as swimming pools, shower areas etc.

Special equipment is used to perform the tests and a person will simulate walking (with or without footwear, dependant on the test) on a sloping tiled surface. The slope angle is subject to a gradual increase. The highest slope angle achieved before slipping determines the slipresistance classification.

AMERICAN NATIONAL STANDARD TEST METHOD FOR MEASURING DYNAMIC COEFICIENT OF FRICTION OF HARD SURFACE FLOORING MATERIALS

ANSI A326.3

American National Standard A326.3 describes the test method for measuring dynamic coefficient of friction (DCOF) of hard surface flooring materials in the laboratory and in the field. The standard also includes specifications for DCOF and guidance on specifying hard surface flooring material.

DCOF Dynamic Coefficient of Friction

Dynamic Coefficient of Friction (DCOF): Sometimes called kinetic coefficient of friction. This is the ratio of the force necessary to keep a surface already in motion sliding over another divided by the weight (or normal force) of an object. This ratio is a materials property of the two surfaces.* DCOF is usually less than SCOF for the same materials. Contaminants such as dirt, water, soap, oil, or grease can change this value.

* The laboratory values determined by this test method reflect the dynamic friction between the test foot using SBR rubber and the hard surface flooring being tested under specific controlled conditions. No claim of correlation to actual footwear or human ambulation is made.

Unless otherwise specified, hard surface flooring materials suitable for level interior spaces expected to be walked upon when wet with water shall have a wet DCOF of 0.42 or greater when tested using SBR sensor material and SLS solution as per this standard. However, hard surface flooring materials with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine materials appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations.

When tested using SBR sensor material and SLS solution as per the procedure in this standard, hard surface flooring materials with a wet DCOF of less than 0.42 (including by way of example, but not in limitation, polished surfaces), shall only be installed when the surface will be kept dry when walked upon and proper safety procedures will be followed when cleaning the hard surface flooring materials. Surfaces not intended to be walked upon when wet shall have a dry DCOF of 0.42 or greater when tested per Section 9.0 of this standard.

INFORMATIVE NOTE: Hard surface flooring materials with a wet DCOF less than 0.42 are often used in areas such as shopping malls (outside the food court), hotel lobbies, office buildings, etc. where appearance and ease of cleaning are highly desired and measures are in place to keep the floor dry when walked upon.

INFORMATIVE NOTE: Hard surface flooring materials which have a coating applied shall only be used in areas that can be kept dry, unless otherwise specified by the coating's manufacturer. If testing data is required after a coating is applied, use the test method specified by the manufacturer, or the dry testing procedure in this standard if no test method is suggested by the manufacturer of the coating.

INFORMATIVE NOTE: Wet DCOF limit values are not provided in this standard for exterior applications, interior ramps and inclines, or flooring that is contaminated with material other than water.

EQUIVALÊNCIAS ENTRE CERÂMICA E ADESIVOS \ EQUIVALENCE BETWEEN CERAMIC AND GLUES

ÉQUIVALENCE ENTRE CÉRAMIQUE ET ADHÉSIFS \ ÄQUIVALENZTABELLE ZWISCHEN KERAMIKKLASSEN UND FLIESENKLEBER

Para garantir a durabilidade e a segurança do sistema "cerâmica-adesivo" em uso, a escolha correta do adesivo para um ladrilho específico é fundamental. A tabela seguinte foi elaborada tendo em conta o grau de compatibilidade do sistema "cerâmica-adesivo", numa condição tradicional, sobre um suporte cimentício absorvente. Estes são os requisitos mínimos de acordo com a característica "absorção de água" da cerâmica, respeitando as normas EN14411 e EN 12004.

Existem condições adicionais a ter em conta, que podem levar a alterar a seleção do sistema, tais como:

- // Dimensões (CxLxA), geometria e natureza das peças de cerâmica;
- // Natureza, absorção e deformabilidade do suporte (betão, cerâmica existente, gesso cartonado, madeira, metal, etc.) onde o sistema será aplicado;
- // Ambiente de utilização (residencial, comercial ou industrial);
- // Usos específicos (ambientes húmidos, exposição solar, rapidez de intervenção, etc.);

Nestes casos devem ser consultados os prescritores.

The correct choice of glue is of extreme importance to ensure the durability and safety of the "ceramic-adhesive" system in use. The following table has been prepared taking into consideration the degree of compatibility of the "ceramic adhesive" system, under a normal condition, on an absorbent cementitious support. These are the minimum requirements according to the "water absorption" characteristic of ceramic, complying with the norms EN14411 and EN 12004.

There are additional conditions to keep in mind that may lead to changes such as:

- // Dimensions (LxWxH), shape and nature of ceramic pieces;
- // Nature, absorption and deformability of the substrate (concrete, existing tiles, plasterboard, wood, metal, etc.) where the system will be applied;
- // Area of use (residential, commercial or industrial);
- // Specific applications (wet environments, sun exposure, speed of intervention, etc.).

In these cases you should contact the specifiers.

Pour assurer la durabilité et la sécurité du système "adhésif céramique" utilisé, il est essentiel de choisir le bon adhésif pour un carreau spécifique. Le tableau suivant a été préparé en tenant compte du degré de compatibilité du système "céramique-adhésif", dans des conditions traditionnelles, sur un support absorbant à base de ciment. Ce sont les exigences minimales selon la caractéristique "absorption d'eau" de la céramique, répondant aux normes EN14411 et EN 12004.

Il convient de garder à l'esprit les conditions supplémentaires susceptibles de modifier le choix du système, telles que:

- // Dimensions (LxWxH), géométrie et nature des pièces en céramique;
- // Nature, absorption et déformabilité du support (béton, céramique existante, plaques de plâtre, bois, métal, etc.) où le système sera appliqué;
- // Environnement d'utilisation (résidentiel, commercial ou industriel);
- // Utilisations spécifiques (environnements humides, exposition au soleil, rapidité d'intervention, etc.).

Dans ce cas, les prescripteurs doivent être consultés.

Um die Haltbarkeit und Sicherheit der Einheit "Keramik-Kleber" zu gewährleisten, ist die Auswahl des richtigen Klebers für eine bestimmte Fliese von entscheidender Bedeutung. Die folgende Tabelle wurde unter Berücksichtigung der Kompatibilität der Einheit "Keramik-Kleber" unter herkömmlichen Bedingungen auf einem absorbierenden zementartigen Träger erstellt. Dies sind die Mindestanforderungen gemäß der Eigenschaft "Wasseraufnahme" von Keramik gemäß EN14411 und EN 12004.

Zusätzlich sind einige Bedingungen zu beachten, die zu einer Änderung der Einheit führen können, wie z. B.:

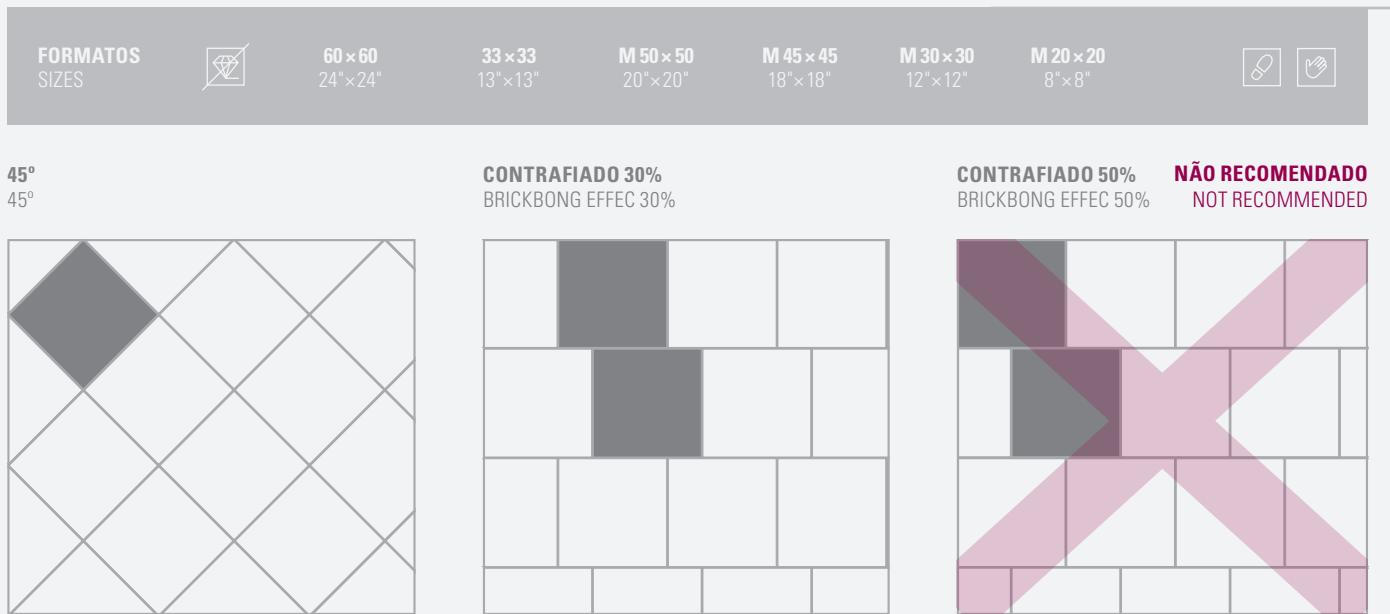
- // Abmessungen (LxWxH), Geometrie und Art der Keramikfliese;
- // Art, Absorptionsvermögen und Verformbarkeit des Untergrunds (Beton, vorhandene Keramik, Gipsplatten, Holz, Metall usw.), auf den die Einheit verlegt werden soll;
- // Nutzungsumgebung (Haushalt, Gewerbe oder Industrie);
- // Spezifische Anwendungen (feuchte Umgebungen, Sonneneinstrahlung, Verlegegeschwindigkeit usw.).

In solchen Fällen sollte die ausschreibende Instanz konsultiert werden.

Recomendação mínima de classes de adesivos, segundo classes de cerâmica: \ Minimum recommendation of adhesive classes by ceramic classes:
Recommandation minimale des classes d'adhésif par classe de céramique: \ Mindestempfehlung der Kleberklassen, nach Keramikklassen:

Classe de Cerâmica (segundo EN14411) Ceramic Classes (according to EN14411) Classe de Céramique (selon EN14411) Keramikklassen (nach EN14411)	Absorção de Água (%) Water absorption (%) Absorption d'eau (%) Wasserabsaumre (%)	Adesivo (segundo EN12004) \ Adhesives (according to EN12004) \ Adhésif (selon EN12004) \ Fliesenkleber (nach EN12004)			
		Pavimento \ Floor \ Sol \ Boden		Parede \ Wall \ Mur \ Wand	
Interior \ Interior \ Intérieur \ Innen	Exterior \ Exterior \ Extérieur \ Außen	Interior \ Interior \ Intérieur \ Innen	Exterior \ Exterior \ Extérieur \ Außen	Interior \ Interior \ Intérieur \ Innen	Exterior \ Exterior \ Extérieur \ Außen
A1a + B1a	≤ 0,5	C2	C2	C2	C2
Alb + Blb	> 0,5 e \ and \ et \ und ≤ 3,0	C1	C2	C1	C2
Alla-1 + Alla-2 + B1la	> 3,0 e \ and \ et \ und ≤ 6,0	C1	C2	C1	C2
Allb-1 + Allb-2 + B1lb	> 6,0 e \ and \ et \ und ≤ 10,0	C*	C2	C*	C2
Alli + B1li	> 10,0	Não aplicável Not applicable Non applicable Nicht zutreffend	Não aplicável Not applicable Non applicable Nicht zutreffend	C* ou D C* or D C* ou D C* or D	Não recomendável Not recommended Non Recommandé Nicht empfohlenwert

C* = Cimento cola para ladrilhos absorventes em interior. \ Glue for absorbent tiles for interiors. \ Colle pour carrelage absorbant d'intérieur en ciment. \ Zementkleber für wasseraufnehmende Fliesen im Innenbereich.



Formato Size		Dimensão Nominal (N) Nominal Size (N)						Dimensão de Fábrica (W) Work Size (W)					
		Formatos Não Modulares Non-Modular Sizes			Formatos Modulares Modular Sizes			mm			in		
		cm	in	cm	in	cm	in		Espessura Thickness		Espessura Thickness		
EN 14411:2012 Anexo G Grupo Bla GL Porcelanato Vidrado \ Glazed Porcelain Stoneware Grès Cérame Émaillé \ Feinsteinzeug Glasiert													
60x60x0,8		24"×24"	0.32 in	60×60×0,8	24"×24"	0.32 in	-	-		Obs.1		Obs.1	
30x60x0,8		12"×24"	0.32 in	30×60×0,8	12"×24"	0.32 in	-	-		Obs.1		Obs.1	
EN 14411: 2012 Anexo L Grupo BIII GL Azulejos de Pasta Branca Bicozedura \ Double Fired White Body Wall Tiles Faïences en Pâte Blanche Bi-Cuisson \ Weiss-Scherbige Zweibrand Steingutfliesen													
 30x90x1 RTF		12"×35"	0.39 in	30×90×1	12"×35"	0.39 in	-	-	298×898	10	11.73×35.35	0.39 in	

Obs.1

EN 14411: 2012 Anexo G Grupo Bla UGL**Porcelânico Pasta Corada Decorado** \ Colored body Porcelain Stoneware
Grès cérame décoré coloré dans la masse \ Durchgefärbiertes dekoriertes Feinsteinzeug**EN 14411: 2012 Anexo G Grupo Bla GL****Porcelanato Vidrado** \ Glazed Porcelain Stoneware
Grès Cérame Émaillé \ Feinsteinzeug Glasiert

Dada a grande retracção (7 a 8%) que sofre o material durante o processo de cozedura, a dimensão de fabrico (igual a calibre) é determinada no processo, durante a fase de escolha, e impressa em cada embalagem (p.e.: o M 20×20 cm pode ter calibres 196, 197 ou 198 mm).

Due to the high contraction (7 to 8%) of the material during the firing process, the production size (also designated as the caliber) is determined within the process, when the final selection is made. The size (caliber) is printed onto each box (e.g.: M 20×20 cm may have calibers of 196, 197 or 198 mm).

ANSI A137.1:2021 Pressed Porcelain Floor Tile Class P1 - Impervious · w.a. ≤ 0.5%										
ANSI A137.1:2021 Glazed Wall Tile Class P4 - Non-Vitreous · 7.0% < w.a. ≤ 20.0%										
Characteristics	Test Method	Minimum	Maximum	Obs.	CINCA Results	Minimum	Maximum	Obs.	CINCA Results	
RECTIFIED TILES (Nominal Size < 6 in [15 cm])										
Nominal Size	ASTM C499	-2.00%	+2.00%	-	±2.00% (Max. ±3 mm)	-3.00%	+2.00%	-	±2.00% (Max. ±3 mm)	
Caliber Range	ASTM C499	-0.015 in (-0.4 mm)	+0.015 in (+0.4 mm)	-	Max. ±0.4 mm	-0.015 in (-0.4 mm)	+0.015 in (+0.4 mm)	-	Max. ±0.4 mm	
Warpage Edge	ASTM C485	-0.018 in (-0.5 mm)	+0.024 in (+0.6 mm)	-	Max. -0.4/+0.6 mm	-0.024 in (-0.6 mm)	+0.024 in (+0.6 mm)	-	Max. ±0.6 mm	
Warpage Diagonal	ASTM C485	-0.018 in (-0.5 mm)	+0.024 in (+0.6 mm)	-	Max. -0.4/+0.6 mm	-0.024 in (-0.6 mm)	+0.024 in (+0.6 mm)	-	Max. ±0.6 mm	
Wedging	ASTM C502	-0.015 in (-0.4 mm)	+0.015 in (+0.4 mm)	-	Max. -0.4/+0.6 mm	-0.015 in (-0.4 mm)	+0.015 in (+0.4 mm)	-	Max. ±0.4 mm	
RECTIFIED TILES (Nominal Size ≥ 6 in [15 cm])										
Nominal Size	ASTM C499	-2.00%	+2.00%	-	±2.00% (Max. ±5 mm)	-3.00%	+2.00%	-	±2.00% (Max. ±5 mm)	
Caliber Range	ASTM C499	-0.25% or -0.03 in (-0.8 mm)	+0.25% or +0.03 in (+0.8 mm)	1	±0.25%	-0.25% or -0.03 in (-0.8 mm)	+0.25% or +0.03 in (+0.8 mm)	1	±0.25% (Max. ±0.8 mm)	
Warpage Edge	ASTM C485	-0.30% or -0.04 in (-1.0 mm)	+0.40% or +0.05 in (+1.3 mm)	1	-0.20%/+0.40%	*-0.40% or -0.05 in (-1.3 mm*) or (-1.8 mm**)	*+0.40% or +0.05 in (+1.3 mm*) or (+1.8 mm**)		±0.40% (Max. ±1.3 mm)	
Warpage Diagonal	ASTM C485	-0.30% or -0.05 in (-1.3 mm)	+0.40% or +0.07 in (+1.8 mm)	1	-0.20%/+0.40%	-0.40% or -0.07 in (-1.8 mm)	+0.40% or +0.07 in (+1.8 mm)	1	±0.40% (Max. ±1.3 mm)	
Wedging	ASTM C502	-0.25% or -0.03 in (-0.8 mm)	+0.25% or +0.03 in (+0.8 mm)	1	±0.40%	-0.25% or -0.03 in (-0.8 mm)	+0.25% or +0.03 in (+0.8 mm)	1	±0.25% (Max. ±0.8 mm)	
CALIBRATED TILES (Nominal Size < 6 in [15 cm])										
Nominal Size	ASTM C499	-2.00%	2.00%	-	±2.00% (Max. ±3 mm)	-3.00%	+3.00%	-	±2.00% (Max. ±3 mm)	
Caliber Range	ASTM C499	-0.018 in (-0.5 mm)	+0.018 in (+0.5 mm)	-	Max. ±0.5 mm	-0.03 in (-0.8 mm)	+0.03 in (+0.8 mm)	-	Max. ±0.7 mm	
Warpage Edge	ASTM C485	-0.018 in (-0.5 mm)	+0.024 in (+0.6 mm)	-	Max. -0.4/+0.6 mm	-0.03 in (-0.8 mm)	+0.03 in (+0.8 mm)	-	Max. ±0.6 mm	
Warpage Diagonal	ASTM C485	-0.018 in (-0.5 mm)	+0.024 in (+0.6 mm)	-	Max. -0.4/+0.6 mm	-0.03 in (-0.8 mm)	+0.03 in (+0.8 mm)	-	Max. ±0.6 mm	
Wedging	ASTM C502	-0.024 in (-0.6 mm)	+0.024 in (+0.6 mm)	-	Max. -0.4/+0.6 mm	-0.03 in (-0.8 mm)	+0.03 in (+0.8 mm)	-	Max. ±0.6 mm	
CALIBRATED TILES (Nominal Size ≥ 6 in [15 cm])										
Nominal Size	ASTM C499	-2.00%	+2.00%	-	±2.00% (Max. ±5 mm)	-3.00%	+3.00%	-	±2.00% (Max. ±5 mm)	
Caliber Range	ASTM C499	-0.30% or -0.04 in (-1.0 mm)	+0.30% or +0.04 in (+1.0 mm)	1	±0.30%	-0.50% or -0.08 in (-2.0 mm)	+0.50% or +0.08 in (+2.0 mm)	1	±0.50% (Max. ±1.5 mm)	
Warpage Edge	ASTM C485	-0.30% or -0.04 in (-1.0 mm)	+0.40% or +0.05 in (+1.3 mm)	1	-0.20%/+0.40%	-0.50% or -0.07 in (-1.8 mm)	+0.50% or +0.07 in (+1.8 mm)	1	±0.40% (Max. ±1.5 mm)	
Warpage Diagonal	ASTM C485	-0.30% or -0.05 in (-1.3 mm)	+0.40% or +0.07 in (+1.8 mm)	1	-0.20%/+0.40%	-0.50% or -0.07 in (-1.8 mm)	+0.50% or +0.07 in (+1.8 mm)	1	±0.40% (Max. ±1.5 mm)	
Wedging	ASTM C502	-0.40% or -0.05 in (-1.3 mm)	+0.40% or +0.05 in (+1.3 mm)	1	±0.40%	-0.50% or -0.08 in (-2.0 mm)	+0.50% or +0.08 in (+2.0 mm)	1	±0.40% (Max. ±1.5 mm)	

ANSI A137.1:2021 Pressed Porcelain Floor Tile Class P1 - Impervious · w.a. ≤ 0.5%										
ANSI A137.1:2021 Glazed Wall Tile Class P4 - Non-Vitreous · 7.0% < w.a. ≤ 20.0%										
Characteristics	Test Method	Minimum	Maximum	Obs.	CINCA Results	Minimum	Maximum	Obs.	CINCA Results	
ALL TILES										
 Thickness	ASTM C499	N/A	Range: 0.031 in (0.79 mm)	3	± 5%	N/A	Range: 0.040 in (1.02 mm)	4	± 5% (Max. ±0.5 mm)	
 Visible Abrasion Resistance (Only GL Tiles)	ASTM C1027	-	-	-	-	As Reported	As Reported	2	See Catalog	
 Bond Strength	ASTM C482	≥ 50 psi (0.34 Mpa)	-	-	Conforms	≥ 50 psi (0.34 Mpa)	-	-	Conforms	
 Water Absorption	ASTM C373	P4	P4	-	18.0% < w.a. ≤ 20.0%	0.00%	0.50%	-	P1 (up to 0.5%)	
 Color Uniformity	ASTM C609	n.a.	V0 - 3 Judds	2	V0	n.a.	V0 - 3 Judds	3	n.a.	
 Crazing Resistance	ASTM C424	Pass	-	-	Resists	Pass	-	2	Resists	
 Thermal Shock	ASTM C484	Pass	-	-	Resists	Pass	-	2	Resists	
 Chemical Resistance	ASTM C650	As Reported	As Reported	-	GA, GLA	As Reported	As Reported	-	UGL: UA, ULA GL: GA, GLA	
 DCOF	Section 9.6	-	-	-	-	0.42	-	6	Conforms	
 Stain Resistance	ASTM C1378	As Reported	As Reported	-	Class 5	As Reported	As Reported	-	Class 5	
 Breaking Strength	ASTM C648	Average ≥ 125 lbf (0.56 kN)	Indiv. ≥ 100 lbf (0.44 kN)	-	≥ 0.50 kN	Average ≥ 250 lbf (1.11 kN)	Indiv. ≥ 225 lbf (1.00 kN)	-	≥ 1.40 kN	
 Resistance to Freeze/Thaw Cycling	ASTM C1026	As Reported	As Reported	4	Non Resistant	As Reported	As Reported	5	Resists	

n.a. Not Applicable.

n.p.d. No Performance Declared.

GL Glazed Tiles.

UGL Unglazed Tiles.

(1) Whichever is less.

(2) Glazed Tile Only.

(3) Class V0 Tile Only.

(4) May not apply to textured surfaces or tiles with uneven back patterns.

(5) When installation subject to freeze / thaw conditions.

(6) For level interior spaces expected to be walked upon when wet.

* Whichever is less for tiles up to 24" x 24" (610 mm x 610 mm)

** Applies to tiles larger than 24" x 24" (610 mm x 610 mm)

DISCLAIMER: Specifications subject to change without further notice. This information is issued as is and without any further warranty of fitness for a particular purpose, so in no event shall cincia be liable for any direct, indirect, or consequential damage whatsoever arising out of or in any way related to the use of their product.

Formato Size	Caixa Box			Palete Pallet					
	Peças Tiles Tiles	m ² / m ft ² / ft	kg lb	Caixa / Palete Box / Pallet Box / Pallet	m ² ft ²	Net. kg Net. lb	Brut. kg Brut. lb	cm in	
Pavimento Floor Tiles mm in									
60x60	8 mm	4	1,4400 m ²	24,94	32	46,0800	798	823	120×80×74
24"×24"	0.32 in	4	15.50 ft ²	54.98	32	496	1,759.29	1,814.40	47"×31"×29"
30x60	8 mm	7	1,2600 m ²	21,79	40	50,4000	872	897	120×80×75
12"×24"	0.32 in	7	13.56 ft ²	48.04	40	542.50	1,992.43	1,977.55	47"×31"×30"
33×33 (Mosaico Mosaic - 36)	8 mm	9	0,9801 m ²	16,60					
13"×13" (Mosaic 36)	0.32 in	9	10.55 ft ²	36.60					
29×29 (Mosaico Inclinado Inclined Mosaic - 16)	8 mm	9	0,7569 m ²	13,95					
11"×11" (Inclined Mosaic 16)	0.32 in	9	8.15 ft ²	30.75					
32,5x60 (Mosaico Mosaic - Mureto)	8 mm	6	1,338 m ²	24,10					
13"×24" (Mosaic Mureto)	0.32 in	6	14.40 ft ²	53.13					

Formato Size	Caixa Box			Palete Pallet					
	Peças Tiles Tiles	m ² / m ft ² / ft	kg lb	Caixa / Palete Box / Pallet Box / Pallet	m ² ft ²	Net. kg Net. lb	Brut. kg Brut. lb	cm in	
Revestimento Wall Tiles mm in									
30x90 RTF	10 mm	4	1,0800 m ²	19,25	48	51,8400	924	949	120×100×85
12"×35" RTF	0.39 in	4	11.63 ft ²	42.44	48	558.00	2,037	2,092	47"×39"×33"
30x90 RTF STR (Estruturado / Structure)	10 mm	4	1,0800 m ²	19,25					
12"×35" RTF STR (Structure)	0.39 in	4	11.63 ft ²	42.44					

CERTIFICADOS DE SISTEMAS MANAGEMENT SYSTEM CERTIFICATES



Certificação ISO 9001 do Sistema de Gestão da Qualidade
Implementado na Conceção, Desenvolvimento, Produção e
Comercialização de Pavimentos e Revestimentos Cerâmicos

Quality Management System ISO 9001 Certification Implemented
in the Design, Development, Production and Trading of Ceramic
Floor and Wall Tiles

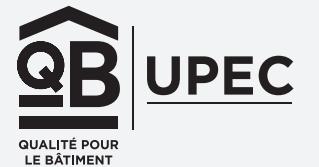
Certificação ISO 14001 do Sistema de Gestão do Ambiente
Implementado na Conceção, Desenvolvimento, Produção e
Comercialização de Pavimentos e Revestimentos Cerâmicos

Environment Management System ISO 14001 Certification
Implemented in the Design, Development, Production and
Trading of Ceramic Floor and Wall Tiles

CERTIFICADOS DE PRODUTOS PRODUCT CERTIFICATES



Certificação da Qualidade
de Revestimentos Cerâmicos
Wall Tiles Quality
Certification



OUTROS CERTIFICADOS OTHER CERTIFICATES



APICER - Associação Portuguesa da Indústria de Cerâmica (Portuguese Association of the Ceramics Industry)

O Selo 'Portugal Does It better' é atribuído pela APCER a empresas que ambicionam o patamar de excelência definido para

processos produtivos e gestão, na qualidade, na inovação, no design ou no respeito ambiental e social.

The Seal 'Portugal Does It better' is awarded by APCER to companies that aspire to the level of excellence set for production processes and management, quality, innovation, design or environmental and social respect.

CERTIFICADOS AMBIENTAIS ENVIRONMENTAL CERTIFICATES



U.S. Green Building

Na sequência do seu comprometimento com o desenvolvimento sustentável, a CINCA é membro do U.S. Green Building Council® (USGBC®), uma das mais prestigiadas organizações dedicadas à construção sustentável. O USGBC agrupa mais de 13.000 organizações de todo o mundo e mais de 180.000 profissionais em torno da visão de que é possível desenvolver na próxima geração um padrão de construção ambientalmente sustentável, modificando a forma como os edifícios são concebidos, construídos e geridos. A USGBC gere o LEED® (Leadership in Energy and Environmental Design), o mais amplamente reconhecido sistema de certificação verde da construção em todo o mundo que abrange a conceção, construção, gestão e manutenção de edifícios, casas e comunidades. Mais de 148.000 m² de construção em mais de 130 países são certificados diariamente pelo sistema LEED.

Following its commitment towards sustainable development, CINCA is a member of U.S. Green Building Council® (USGBC®), one of the most prestigious organizations dedicated to sustainable construction. USGBC groups more than 13.000 organizations worldwide and more than 180.000 professionals around a vision that it is possible to develop in the upcoming generations construction standards that are environmentally sustainable, by changing the way buildings are conceived, built and managed. USGBC manages LEED® (Leadership in Energy and Environmental Design), the most broadly recognized green certification system for construction, covering all different stages from conception, to construction, management and maintenance of all buildings, houses and communities. More than 148.000 m² of construction are LEED certified on a daily basis all around the world.



Greenguard Gold

Certificação de Revestimentos e Pavimentos
Wall and Floor Tiles Certification

Os produtos que usamos para construir e mobiliar ambientes interiores podem ter um impacto significativo sobre os níveis de poluição do ar interior. A CINCA obteve a Certificação Ouro GREENGUARD para os seus Pavimentos e Revestimentos Cerâmicos. A GREENGUARD comprova cientificamente, que os produtos que certifica cumprem alguns dos padrões mundiais mais rigorosos, relativamente a emissões químicas de terceiros – ajudando a reduzir a poluição do ar interior e o risco de exposição a substâncias químicas, enquanto auxilia a criação de ambientes internos mais saudáveis. A Certificação GREENGUARD é reconhecida e referenciada em inúmeros programas de construção, normas e especificações em todo o mundo. Os produtos com certificação GREENGUARD ou certificação Gold GREENGUARD podem contribuir para o cumprimento de alguns pontos em sistemas de classificação ambientais estabelecidos para edifícios (como o sistema LEED® gerido por USGBC®), satisfazer critérios de código ou portaria e atingir requisitos específicos de RFP qualidade do ar interior.

The products that we use to build and furnish our indoor environments can have a significant impact on indoor air pollution levels. CINCA have obtained the GREENGUARD Gold Certification for its Ceramic Floor and Wall Tiles. Products that have achieved GREENGUARD Certification are scientifically proven to meet some of the world's most rigorous, third-party chemical emissions standards – helping reduce indoor air pollution and the risk of chemical exposure while aiding in the creation of healthier indoor environments. The GREENGUARD Certification is recognized and referenced in numerous building programs, standards and specifications around the world. Products with GREENGUARD Certification or GREENGUARD Gold Certification can contribute to the achievement of points in established green building rating systems (as the LEED® system managed by USGBC®), satisfy code or ordinance criteria and meet indoor air quality specific RFP requirements.



AVISO

ESPECIFICAÇÕES TÉCNICAS VÁLIDAS PARA PRODUÇÕES A PARTIR DE
1 DE JANEIRO DE 2022.



WARNING

TECHNICAL SPECIFICATIONS ARE VALID FOR PRODUCTION STARTING
JANUARY 1st 2022.



AVERTISSEMENT

INFORMATIONS TECHNIQUES VALABLES POUR LES PRODUCTIONS
À PARTIR DU 1er JANVIER 2022.



BITTE BEACHTEN

TECHNISCHE SPEZIFIKATIONEN GÜLTIG FÜR PRODUKTIONEN
AB 1.JANUAR 2022.

DESDE SINCE

1
9
6
4

GCR | GRUPPO
CERDISA
RICCHETTI



4 unidades de produção em Portugal
Presente em mais de 70 países

Há mais de 50 anos que trabalhamos para levar até a si cerâmica intemporal. Juntamos a matéria e a energia com a quinta-essência da nossa imaginação para fazer produtos que se projetam no futuro com arrojo e modernidade.

Conhecimento e experiência, passados entre as gerações dos pioneiros e uma equipa técnica jovem e dinâmica, permitem à CINCA um domínio inigualável das técnicas e soluções cerâmicas.

4 production plants in Portugal
Present in over 70 countries

We have been working for over 50 years to bring to you timeless Ceramics. We combine substance and energy together with the fifth element of our imagination to make products that project boldness and modernity into the future.

Knowledge and experience passed through generations, from the pioneers to a young and dynamic technical team allow CINCA an incomparable control of techniques and ceramic solutions.



Qualidade, Design e Serviço

OFERECENDO SEMPRE AS ÚLTIMAS TENDÊNCIAS

Nasceu na mágica década de 60, raiava o ano de 64 e nenhuma outra forma de descrever a CINCA seria tão nobre como dizer que se pauta, indubitavelmente, por itens que tatuam na sua atividade qualidade, rigor e profissionalismo.

Os produtos cerâmicos CINCA permitem criar um ambiente personalizado e elegante, qualquer que seja o espaço em que são aplicados – casas de banho, cozinhas, centros comerciais, fachadas etc, ao que acresce a imensa vantagem de exigirem muito pouca manutenção e de serem um produto natural, resistente ao fogo e não alergénico.

O Serviço ao Cliente é uma das prioridades da CINCA. Como tal, foram efetuados investimentos consideráveis num sistema integrado de informação e comunicação, de forma a permitir aos clientes uma ligação direta aos nossos serviços.

Com uma presença continuada, desde há longos anos, nas principais feiras de cerâmica a nível mundial, casos da CERSAIE (Itália) e COVERINGS (U.S.A.), a CINCA não descura uma maior proximidade com os seus clientes, levando também as suas últimas novidades a feiras de impacto mais regional.

A CINCA mantém uma estreita colaboração com gabinetes de design mundialmente conhecidos, podendo, assim, satisfazer as novas preferências dos consumidores e simultaneamente as necessidades dos arquitetos e urbanistas, sempre em busca de novas cores e de novas combinações de produtos. A gama CINCA, com a sua grande variedade e flexibilidade, permite a qualquer cliente encontrar a melhor solução para a renovação dos seus espaços.



Quality, Design and Service

ALWAYS OFFERING THE LATEST TRENDS

Born in the magical years of the sixties, in 1964, there is no other way of describing CINCA than considering it as noble as to say that items are tattooed in its business such as quality, accuracy and professionalism.

The quality of the products has always been the main concern for CINCA. Whatever the purpose of the tiles, they are always made with the finest raw materials purchased from the market leaders. CINCA wall and floor tiles are manufactured exclusively with white body and meet the most strict international quality norms.

CINCA ceramic products allow you to create a personalized and elegant setting, in whatever space they are applied – bathrooms, kitchens, shopping malls, facades etc, to which is added the huge advantage of requiring very little maintenance and being a natural product, fire resistant and non-allergenic.

Customer Service is one of the priorities of CINCA. As such, considerable investments were made based on an integrated system of information and communication in order to allow the customers direct access to our services.

With a continued presence, for many years in major exhibitions of ceramics worldwide, for example CERSAIE (Italy) and COVERINGS (U.S.A.), CINCA does not neglect a closer relationship with its customers, taking also its latest developments to more regional fairs.

CINCA keeps a close collaboration with world renowned design offices, and can so meet the new preferences of customers and simultaneously the needs of both the architects and planners, always looking for new colors and new combinations of products. The CINCA range, with its great variety and flexibility, allows any client to find the best solution for the refurbishment of their spaces.

CINCA

DESDE SINCE

1
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6
4

GCR GRUPPO
CERDISA
RICCHETTI



Cuidar do Futuro

Os pavimentos e revestimentos cerâmicos da CINCA são fabricados usando as Melhores Técnicas Disponíveis (MTD ou BAT – Best Available Techniques) para a indústria cerâmica, reduzindo o consumo de energia e recursos naturais a um mínimo.

Em condições normais de utilização, a esperança de vida dos pavimentos e revestimentos cerâmicos é superior a qualquer outro produto destinado à mesma aplicação. Os produtos cerâmicos são considerados completamente inertes e não é necessário qualquer cuidado especial no seu tratamento como resíduo.

Na eventualidade de renovação, os ladrilhos cerâmicos podem ser facilmente recicláveis e usados como matérias-primas para outras indústrias. Todos os materiais de embalagem (caixas, plásticos e paletes) são totalmente recicláveis e podem facilmente ser reutilizados.

VANTAGENS

Fácil limpeza e durabilidade;

Elevada resistência à flexão, abrasão, manchas e produtos químicos;

Resistente à infiltração de água e ao gelo;

Produto retificado com elevada precisão dimensional;

Produto ideal para aplicação em pisos radiantes;

Pode ser usado como pavimento ou revestimento em qualquer tipo de espaço residencial como cozinhas, casas de banho, salas;

Várias opções de formatos e acabamentos.

Taking Care For The Future

The manufacturing of CINCA's wall and floor tiles is based on BAT – Best Available Techniques in the industry, with the aim of reducing natural resources and energy to a minimum.

Under normal conditions of use, life span of ceramic wall and floor tiles is higher than any other product conceived for the same use. Ceramic products are considered inert and no particular care is required in its treatment as a residue.

In the event of replacement, ceramic tiles are easy to recycle and may be used as raw materials for other industries. All packaging materials (boxes, plastic and wooden pallets) are totally recyclable and easily reused.

ADVANTAGES

Easy cleaning and extremely durable;

Highly resistant to flexion, abrasion, staining and chemicals;

Resistant to water infiltration and frost proof;

Rectified product with high dimensional precision;

Ideal to use with underfloor heating;

Suitable for wall and floor such as kitchens, bathrooms, living rooms;

Several formats and finishes.



CINCA

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