

	PORCELÁNICO PORCELAIN TILES
	ESMALTADO GLAZED
	A1 no reacciona al fuego A1 does not react to fire
	<1% / <0,6% máx 2 mm
	E≤0,5%
	5,8x10⁻⁶°C⁻¹
	>40N/mm²
	Antideslizante-Anti slip Gris, Beige, Blanco PEI 4 Caoba, Grafito PEI 2
	Liso-Smooth Gris, Beige, Blanco PEI 4 Caoba, Grafito PEI 2
	clase 5 class 5
	Antideslizante clase 3 Anti slip class 3 Liso clase 1 Smooth class 1
	Antideslizante-Anti slip C Liso-Smooth A
	Antideslizante-Anti slip R11 Liso-Smooth R9
	sí/yes
	✓
	✓
	✓
	V2 ligero light
	R>2 Reducción antibacteriana >99 %

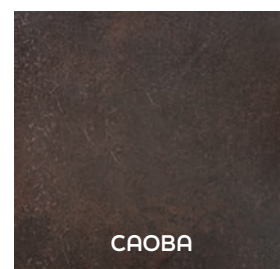
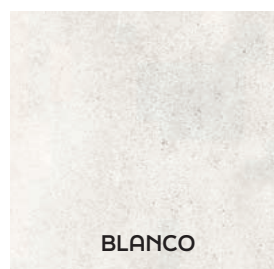


URBAN BEIGE 60x60 23.6x23.6"



Urban

PORCELÁNICOS
PORCELAIN TILES

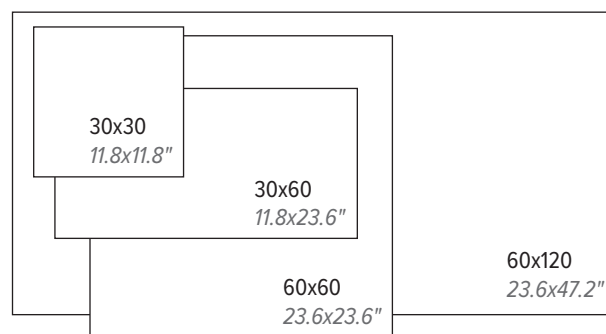


Los colores son indicativos. Colors are just indicative.

30x30 · 30x60 · 60x60 · 60x120 (cm)

11.8x11.8 · 11.8x23.6 · 23.6x23.6 · 23.6x47.2 (pulgadas/inches)

Formatos / Sizes



Para información más detallada por formato/color, consultar en la web de la colección.

For more detailed information by format/color, consult the collection's website.

Urban

PORCELÁNICOS
PORCELAIN TILES

BASES TILES



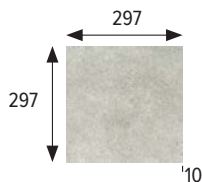
BASE 30x30 11.8x11.8" • TILE 30x30 11.8x11.8"

Antideslizante · Anti slip

Blanco	Cod. 904237 ▶ MC479
Gris	Cod. 904238 ▶ MC479
Beige	Cod. 904239 ▶ MC479
Caoba	Cod. 905634 ▶ MC479
Grafito	Cod. 904763 ▶ MC479

Liso · Smooth

Caoba	Cod. 905776 ▶ MC479
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297x297x10 mm
11.7x11.7x0.4 "

BASE 60x60 23.6x23.6" • TILE 60x60 23.6x23.6"

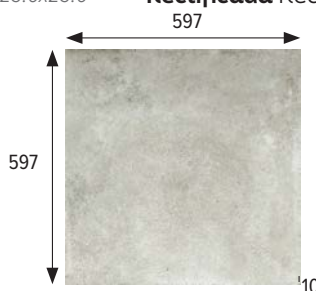
Rectificada · Rectified

Antideslizante · Anti slip

Blanco	Cod. 904253 ▶ MC479
Gris	Cod. 904254 ▶ MC479
Beige	Cod. 904255 ▶ MC479
Caoba	Cod. 905637 ▶ MC479
Grafito	Cod. 904767 ▶ MC479

Liso · Smooth

Blanco	Cod. 904249 ▶ MC479
Gris	Cod. 904250 ▶ MC479
Beige	Cod. 904251 ▶ MC479
Caoba	Cod. 905638 ▶ MC479
Grafito	Cod. 904766 ▶ MC479



597x597x10 mm
23.5x23.5x0.4 "

BASE 30x60 11.8x23.6" • TILE 30x60 11.8x23.6"

Antideslizante · Anti slip

Blanco	Cod. 904245 ▶ MC479
Gris	Cod. 904246 ▶ MC479
Beige	Cod. 904247 ▶ MC479
Caoba	Cod. 905635 ▶ MC479
Grafito	Cod. 904765 ▶ MC479

Liso · Smooth

Caoba	Cod. 905636 ▶ MC479
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297x597x10 mm
11.7x23.5x0.4 "

BASE 60x120 23.6x47.2" • TILE 60x120 23.6x47.2"

Rectificada · Rectified

Antideslizante · Anti slip

Blanco	Cod. 906199 ▶ MC567
Gris	Cod. 906198 ▶ MC567
Beige	Cod. 906200 ▶ MC567
Caoba	Cod. 906249 ▶ MC567
Grafito	Cod. 906281 ▶ MC567

Liso · Smooth

Blanco	Cod. 906280 ▶ MC567
Gris	Cod. 906345 ▶ MC567
Beige	Cod. 906278 ▶ MC567
Caoba	Cod. 906250 ▶ MC567
Grafito	Cod. 906282 ▶ MC567



597x1197x10 mm
23.5x47.1x0.4 "

	Espesor (mm) Thickness (mm)	U.M.*	U.M.		Caja/Box			Palet/Pallet	
			Pzs./Pcs.	Kg.	U.M.	Pzs./Pcs.	Kg.	U.M.	Kg.
Base 30x30 11.8x11.8" Tile 30x30 11.8x11.8"	10	m ² sqm	11,11	21,54	0,99	11	21,33	71,29	1536
Base 60x60 23.6x23.6" Tile 60x60 23.6x23.6"	10	m ² sqm	2,78	22,53	1,44	4	32,44	60,48	1362,5
Base 30x60 11.8x23.6" Tile 30x60 11.8x23.6"	10	m ² sqm	5,55	21,65	1,08	6	23,38	64,86	1403
Base 60x120 23.6x47.2" Tile 60x120 23.6x47.2"	10	m ² sqm	1,39	22,6	1,44	2	32,6	43,2	978

* Unidad de Medida. Los artículos medidos en m² o ml se sirven contando la junta normal entre piezas.

* Unit of Measure. Items measured in sqm or lm are delivered assuming average joint between pieces.

Anchora recomendada de la junta de colocación: Consultar pág. 15.

Recommended joint width: See pg. 15.



URBAN GRIS 60x60 23.6x23.6"

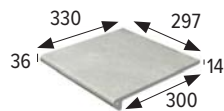
Peldaño redondeado 30 • Rounded stair-tread 30

Antideslizante • Anti slip

Blanco	Cod. 970031 ▶ PZ287
Gris	Cod. 970032 ▶ PZ287
Beige	Cod. 970033 ▶ PZ287
Caoba	Cod. 970182 ▶ PZ287*
Grafito	Cod. 970092 ▶ PZ287

Liso • Smooth

Caoba	Cod. 970185 ▶ PZ287
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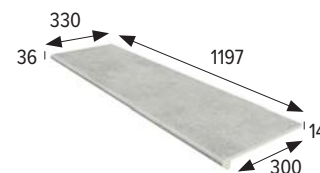


297x330x14 mm

Peldaño redondeado 120 • Rounded stair-tread 120

Liso • Smooth

Blanco	Cod. 970035 ▶ PZ724
Gris	Cod. 970036 ▶ PZ724
Beige	Cod. 970037 ▶ PZ724
Caoba	Cod. 970183 ▶ PZ724
Grafito	Cod. 970170 ▶ PZ724



1197x330x14 mm

Peldaño redondeado 180* • Rounded stair-tread 180

* Disponible bajo pedido. / Available on demand.

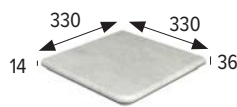
Esquina redondeada • Rounded stair-tread corner

Antideslizante • Anti slip

Blanco	Cod. 904285 ▶ PZ715
Gris	Cod. 904286 ▶ PZ715
Beige	Cod. 904287 ▶ PZ715
Caoba	Cod. 905647 ▶ PZ715*
Grafito	Cod. 904774 ▶ PZ715

Liso • Smooth

Caoba	Cod. 905777 ▶ PZ715
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330x330x14 mm

* Disponible bajo pedido. / Available on demand.

Rodapié 40 • Skirting board 40

Liso • Smooth

Blanco	Cod. 906014 ▶ ML230
Gris	Cod. 906012 ▶ ML230
Beige	Cod. 906013 ▶ ML230
Caoba	Cod. 906016 ▶ ML230
Grafito	Cod. 906015 ▶ ML230



397x80x9,5 mm

Tapa peldaño redonda izda. • Left rounded step cover

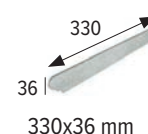
Blanco	Cod. 905243 ▶ PZ195
Gris	Cod. 905242 ▶ PZ195
Beige	Cod. 905245 ▶ PZ195
Caoba	Cod. 905643 ▶ PZ195
Grafito	Cod. 905244 ▶ PZ195



330x36 mm

Tapa peldaño redonda dcha. • Right rounded step cover

Blanco	Cod. 905239 ▶ PZ195
Gris	Cod. 905238 ▶ PZ195
Beige	Cod. 905241 ▶ PZ195
Caoba	Cod. 905642 ▶ PZ195
Grafito	Cod. 905240 ▶ PZ195

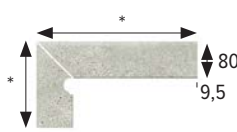


330x36 mm

Zanquín redondeado izda. • Rounded string left side

Liso • Smooth

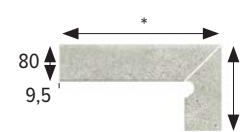
Blanco	Cod. 906019 ▶ JG245
Gris	Cod. 906017 ▶ JG245
Beige	Cod. 906018 ▶ JG245
Caoba	Cod. 906021 ▶ JG245
Grafito	Cod. 906020 ▶ JG245



Zanquín redondeado dcha. • Rounded string right side

Liso • Smooth

Blanco	Cod. 906024 ▶ JG245
Gris	Cod. 906022 ▶ JG245
Beige	Cod. 906023 ▶ JG245
Caoba	Cod. 906026 ▶ JG245
Grafito	Cod. 906025 ▶ JG245



* Las piezas se servirán con una longitud aproximada de 393 mm para ajustar a la medida deseada en obra.

The pieces will be served with an approximate length of 393 mm to adjust to the desired size on the construction place.

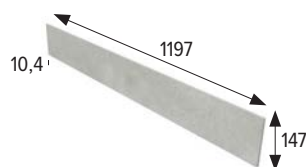
Tabica 15x120 • Riser 15x120

Liso • Smooth

Blanco	Cod. 904706 ▶ PZ223
Gris	Cod. 906270 ▶ PZ223**
Beige	Cod. 904708 ▶ PZ223
Caoba	Cod. 905639 ▶ PZ223**
Grafito	Cod. 906269 ▶ PZ223**

** Producto con dimensiones 147x1197x10 mm

** Product with dimensions 147x1197x10 mm

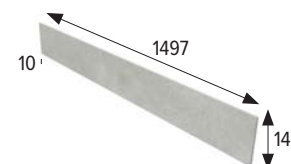


1197x147x10,4 mm

Tabica 15x150 • Riser 15x150

Liso • Smooth

Blanco	Cod. 906329 ▶ PZ283
Gris	Cod. 906328 ▶ PZ283
Beige	Cod. 906331 ▶ PZ283
Caoba	Cod. 906332 ▶ PZ283
Grafito	Cod. 906330 ▶ PZ283



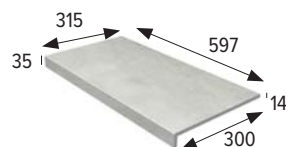
1497x147x10 mm



Peldaño recto 60 • Straight stair-tread 60

Antideslizante • Anti slip

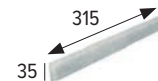
Blanco	Cod. 970023 ▶ PZ603
Gris	Cod. 970024 ▶ PZ603
Beige	Cod. 970025 ▶ PZ603
Grafito	Cod. 970090 ▶ PZ603



597x315x14 mm

Tapa peldaño recta • Rounded stair-tread corner

Blanco	Cod. 905292 ▶ PZ195
Gris	Cod. 905291 ▶ PZ195
Beige	Cod. 905294 ▶ PZ195
Grafito	Cod. 905293 ▶ PZ195

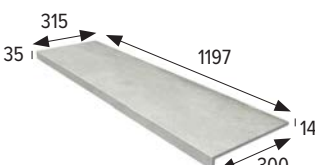


315x35 mm

Peldaño recto 120 • Straight stair-tread 120

Antideslizante • Anti slip

Blanco	Cod. 970095 ▶ PZ724
Gris	Cod. 970096 ▶ PZ724
Beige	Cod. 970097 ▶ PZ724
Grafito	Cod. 970091 ▶ PZ724



1197x315x14 mm

Liso • Smooth

Blanco	Cod. 970027 ▶ PZ724
Gris	Cod. 970028 ▶ PZ724
Beige	Cod. 970029 ▶ PZ724
Grafito	Cod. 970572 ▶ PZ724

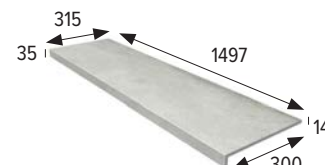
Peldaño recto 180* • Straight stair-tread 180

* Disponible bajo pedido. / Available on demand.

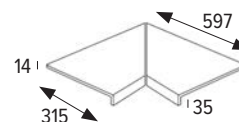
Peldaño recto 150 • Straight stair-tread 150

Antideslizante • Anti slip

Blanco	Cod. 970222 ▶ PZ750
Gris	Cod. 970223 ▶ PZ750
Beige	Cod. 970227 ▶ PZ750
Grafito	Cod. 970364 ▶ PZ750



1497x315x14 mm



▶ Peldaño recto ingleteado bajo pedido
Mitered straight stair tread on demand

Zanquín recto izda. • Straight string left side

Liso • Smooth

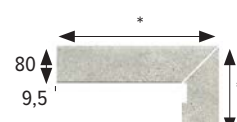
Blanco	Cod. 906029 ▶ JG245
Gris	Cod. 906027 ▶ JG245
Beige	Cod. 906028 ▶ JG245
Grafito	Cod. 906030 ▶ JG245



Zanquín recto dcha. • Straight string right side

Liso • Smooth

Blanco	Cod. 906034 ▶ JG245
Gris	Cod. 906032 ▶ JG245
Beige	Cod. 906033 ▶ JG245
Grafito	Cod. 906035 ▶ JG245



* Las piezas se servirán con una longitud aproximada de 393 mm para ajustar a la medida deseada en obra.
The pieces will be served with an approximate length of 393 mm to adjust to the desired size on the construction place.

	Espesor (mm) Thickness (mm)	U.M.*	U.M.		Caja/Box			Palet/Pallet	
			Pzs./Pcs.	Kg.	U.M.	Pzs./Pcs.	Kg.	U.M.	Kg.
Peldaño redondeado 30 Rounded stair-tread 30	14	Pz. Pc.	1	3,1	4	4	12,6	288	806
Peldaño redondeado 120 Rounded stair-tread 120	14	Pz. Pc.	1	12,1	2	2	24,2	64	768,6
Tapa peldaño redonda izda. Left rounded step cover	-	Pz. Pc.	1	0,17	10	10	1,7	**	**
Tapa peldaño redonda dcha. Right rounded step cover	-	Pz. Pc.	1	0,17	10	10	1,7	**	**
Zanquín redondeado izda. Rounded string left	9,5	Jg. set	2	3,29	5	10	16,4	**	**
Zanquín redondeado dcha. Rounded string right	9,5	Jg. set	2	3,29	5	10	16,4	**	**
Esquina redondeada Rounded stair-tread corner	14	Pz. Pc.	1	4,25	2	2	8,5	60	255
Rodapié 40 Skirting board 40	9,5	ml lm	2,5	1,90	10	25	19,03	460	875,15
Peldaño recto 60 Straight stair-tread 60	14	Pz. Pc.	1	5,7	4	4	22,6	144	817
Tapa peldaño recta Straight step cover	-	Pz. Pc.	1	0,17	10	10	1,7	**	**
Peldaño recto 120 Straight stair-tread 120	14	Pz. Pc.	1	11,32	2	2	22,6	64	724,5
Peldaño recto 150 Straight stair-tread 150	14	Pz. Pc.	1	14,44	4	4	57,76	36	519,84
Zanquín recto izda. Straight string left	9,5	Jg. set	2	3,29	5	10	16,4	**	**
Zanquín recto dcha. Straight string right	9,5	Jg. set	2	3,29	5	10	16,4	**	**
Tabica 15x120 Riser 15x120	10,4	Pz. Pc.	1	4,24	6	6	25,4	264	1119
Tabica 15x120 Riser 15x120	10	Pz. Pc.	1	3,913	5	5	19,797	305	975
Tabica 15x150 Riser 15x150	10	Pz. Pc.	1	5,891	4	4	24	144	889

* Unidad de Medida. Los artículos medidos en m² o ml se sirven contando la junta normal entre piezas.

* Unit of Measure. Items measured in sqm or lm are delivered assuming average joint between pieces.

** Consultar datos de embalaje con fábrica

** Ask for packing information to the factory

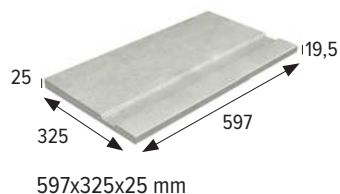
Anchura recomendada de la junta de colocación: Consultar pág. 15.

Recommended joint width: See pg. 15.

Borde desbordante 60 • Overflowing edge 60

Antideslizante • Anti slip

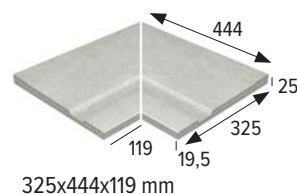
Blanco	Cod. 970261 ▶ PZ650
Gris	Cod. 970262 ▶ PZ650
Beige	Cod. 970263 ▶ PZ650
Grafito	Cod. 970264 ▶ PZ650



Esq. int. borde desbordante • Overflowing internal edge

Antideslizante • Anti slip

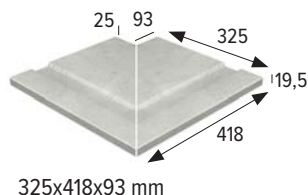
Blanco	Cod. 904317 ▶ JG762
Gris	Cod. 904318 ▶ JG762
Beige	Cod. 904319 ▶ JG762
Grafito	Cod. 904782 ▶ JG762



Esq. ext. borde desbordante • Overflowing external edge

Antideslizante • Anti slip

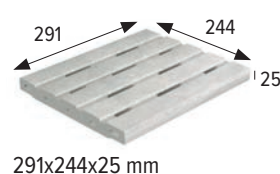
Blanco	Cod. 904321 ▶ JG762
Gris	Cod. 904322 ▶ JG762
Beige	Cod. 904323 ▶ JG762
Grafito	Cod. 904783 ▶ JG762



Rejilla monocompact ranurada • Monocompact grooved grid**

Antideslizante • Anti slip

Blanco	Cod. 905056 ▶ PZ595
Gris	Cod. 904909 ▶ PZ595
Beige	Cod. 905058 ▶ PZ595
Grafito	Cod. 905059 ▶ PZ595



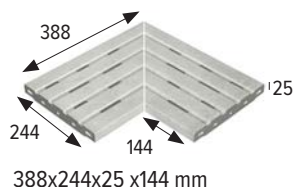
** En rejillas, los agujeros siempre deben ir paralelos al vaso para su mayor resistencia, con canal de 250 mm de ancho.

** Install the grids with the holes always parallel to the pool vessel to get a greater resistance, with a channel 250 mm wide.

Esquina rejilla • Corner grid

Antideslizante • Anti slip

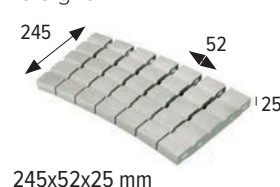
Blanco	Cod. 905052 ▶ JG761
Gris	Cod. 905053 ▶ JG761
Beige	Cod. 905054 ▶ JG761
Grafito	Cod. 905055 ▶ JG761



Rejilla flexible ranurada • Grooved Flexible grid *

Antideslizante • Anti slip

Blanco	Cod. 905048 ▶ ML780
Gris	Cod. 905049 ▶ ML780
Beige	Cod. 905050 ▶ ML780
Grafito	Cod. 905051 ▶ ML780

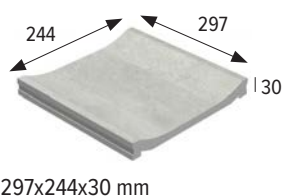


* Disponible bajo pedido. / Available on demand.
Ver/See pg. 14.

Canaleta • Overflow channel*

Antideslizante • Anti slip

Blanco	Cod. 904337 ▶ PZ382
Gris	Cod. 904338 ▶ PZ382
Beige	Cod. 904339 ▶ PZ382
Grafito	Cod. 904787 ▶ PZ382



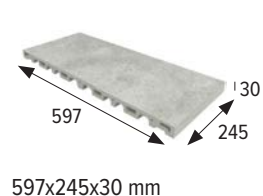
* Disponible Canaleta con desagüe.

* Overflow channel with drainage available.

Rejilla cerámica oculta • Hidden ceramic grid

Antideslizante • Anti slip

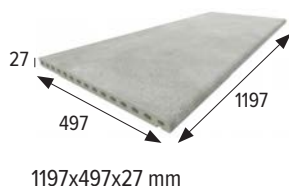
Blanco	Cod. 970589 ▶ PZ730
Gris	Cod. 970644 ▶ PZ730
Beige	Cod. 970645 ▶ PZ730
Grafito	Cod. 970725 ▶ PZ730



Borde monocompact 120 • Monocompact edge 120

Antideslizante • Anti slip

Blanco	Cod. 970658 ▶ PZ730
Gris	Cod. 970660 ▶ PZ730
Beige	Cod. 970659 ▶ PZ730





Cantenera • External radial tile

Antideslizante • Anti slip

Blanco	Cod. 904345 ▶ PZ123
Gris	Cod. 904346 ▶ PZ123
Beige	Cod. 904347 ▶ PZ123
Grafito	Cod. 904790 ▶ PZ123



Rinconera • Internal radial tile

Antideslizante • Anti slip

Blanco	Cod. 904341 ▶ PZ123
Gris	Cod. 904342 ▶ PZ123
Beige	Cod. 904343 ▶ PZ123
Grafito	Cod. 904789 ▶ PZ123



Esq. ext. cantenera • External mitre

Antideslizante • Anti slip

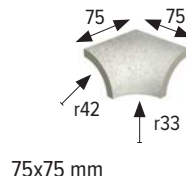
Blanco	Cod. 904357 ▶ PZ360
Gris	Cod. 904358 ▶ PZ360
Beige	Cod. 904359 ▶ PZ360
Grafito	Cod. 904794 ▶ PZ360



Esq. int. rinconera • Internal mitre

Antideslizante • Anti slip

Blanco	Cod. 904361 ▶ PZ360
Gris	Cod. 904362 ▶ PZ360
Beige	Cod. 904363 ▶ PZ360
Grafito	Cod. 904793 ▶ PZ360



Escocia cantenera exterior • Round external mitre

Antideslizante • Anti slip

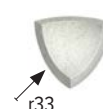
Blanco	Cod. 904353 ▶ PZ283
Gris	Cod. 904354 ▶ PZ283
Beige	Cod. 904355 ▶ PZ283
Grafito	Cod. 904792 ▶ PZ283



Escocia rinconera interior • Round internal mitre

Antideslizante • Anti slip

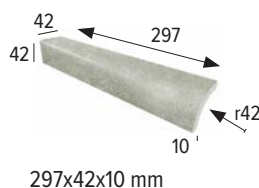
Blanco	Cod. 904349 ▶ PZ283
Gris	Cod. 904350 ▶ PZ283
Beige	Cod. 904351 ▶ PZ283
Grafito	Cod. 904791 ▶ PZ283



Cantenera transición • External radial transition tile

Antideslizante • Anti slip

Blanco	Cod. 906212 ▶ PZ420
Gris	Cod. 906211 ▶ PZ420
Beige	Cod. 906213 ▶ PZ420



Rinconera transición • Internal radial transition tile

Antideslizante • Anti slip

Blanco	Cod. 906215 ▶ PZ420
Gris	Cod. 906214 ▶ PZ420
Beige	Cod. 906216 ▶ PZ420



	Espesor (mm) Thickness (mm)	U.M.*	U.M.		Caja/Box			Palet/Pallet	
			Pzs./Pcs.	Kg.	U.M.	Pzs./Pcs.	Kg.	U.M.	Kg.
Borde desbordante 60 Overflowing edge 60	25	Pz. Pc.	1	7,9	4	2	34,56	72	631
Esq. int. borde desbordante Overflowing internal edge	25	Jg. Set	2	7	2	4	14	-	-
Esq. ext. borde desbordante Overflowing external edge	25	Jg. Set	2	7	2	4	14	-	-
Rejilla monocompact ranurada Monocompact grooved grid	25	Pz. Pc.	1	4,2	5	5	20,8	315	1310
Esquina rejilla Corner grid	25	Set Set	1	7,96	1	2	7,96	-	-
Rejilla flexible ranurada Grooved Flexible grid	25	Pz. Pc.	1	12,7	1	1	12,7	30	381
Canaleta Overflow channel	30	Pz. Pc.	1	2,5	4	4	10,2	288	734
Rejilla cerámica oculta Hidden ceramic grid	30	Pz. Pc.	1	6,6	3	3	19,8	60	396
Borde monocompact 120 Monocompact edge 120	27	Pz. Pc.	1	26,8	1	1	26,8	36	985
Cantenera External radial tile	-	Pz. Pc.	1	0,34	42	42	14,5	1512	522
Rinconera Internal radial tile	-	Pz. Pc.	1	0,41	35	35	14,2	1260	511
Esq. exterior cantenera External mitre	-	Pz. Pc.	1	0,33	4	4	1,3	-	-
Esq. interior rinconera Internal mitre	-	Pz. Pc.	1	0,33	4	4	1,3	-	-
Escocia cantenera exterior Round external mitre	-	Pz. Pc.	1	0,1	24	24	1,9	-	-
Escocia rinconera interior Round internal mitre	-	Pz. Pc.	1	0,1	24	24	1,9	-	-
Cantenera transición External radial transition tile	-	Pz. Pc.	1	0,48	2	2	0,96	160	76,8
Rinconera transición Internal radial transition tile	-	Pz. Pc.	1	0,41	2	2	0,82	160	65,6

* Unidad de Medida. Los artículos medidos en m² o ml se sirven contando la junta normal entre piezas.

* Unit of Measure. Items measured in sqm or lm are delivered assuming average joint between pieces.

** Consultar datos de embalaje con fábrica

** Ask for packing information to the factory

Anchura recomendada de la junta de colocación: Consultar pág. 15. / Recommended joint width: See pg. 15.

Urban







OBJETIVO DEL TRATAMIENTO:

Las bacterias son microorganismos que se encuentran y reproducen en nuestro entorno, y en el interior de los seres vivos.

Nuestra finalidad es Ofrecer al cliente un producto antibacteriano, que le proteja de la vulnerabilidad a las reacciones por una contaminación de microorganismos en zonas industriales, restaurantes, Playas de piscinas, vestuarios, hospitales, ambulatorios, centros de Rehabilitación y tercera Edad.

El estudio y objetivo de Gres de Aragón, ha sido obtener un pavimento vítreo con propiedades bactericidas y fungicidas, que no requieran la incidencia de radiación UV y por lo tanto se puedan utilizar tanto en exteriores como interiores, con luz natural, artificial y en plena oscuridad.

Solución integrada para conseguir un nivel mayor de higiene.

Aditivos basados en tecnología de última generación.

Protección duradera de superficies.

Alta efectividad contra organismo patógenos oportunistas implicados en enfermedades adquiridas/hospitalarias.

Diferenciación y Producto de valor añadido.

COMO FUNCIONA:

La tecnología aplicada inhibe el crecimiento de bacterias, hongos y levaduras, obteniendo a su vez, un producto eficaz contra olores y manchas. Este sistema crea una sinergia fuerte entre ambos materiales dando eficiencia y durabilidad.

El tratamiento se aplica en su proceso de fabricación antes de cocción. Esta composición reacciona en la cocción del pavimento sin alterar sus características ni tonos.

Para ello se emplean componentes de arcillas purificadas y modificadas como transportadores de compuestos antimicrobianos.

EL componente principal es la plata, siendo un agente antimicrobiano de amplio espectro y multiespecífico, cuya actividad ha sido probada frente a gran variedad de microorganismos (bacterias y hongos) oportunistas y patógenos como son E. coli, Legionella sp, Pseudomonas, Salmonella, S. aureus, Etc.

Esta composición con propiedad oligodinámica ejerce una acción sobre los microorganismos impidiendo su crecimiento y eliminándolos. (Efecto Antibacteriano)

ENSAYOS DE EFECTIVIDAD ANTIMICROBIANA:

La actividad antimicrobiana se evalúa mediante el protocolo estándar sobre efectividad antimicrobiana de superficies. Norma JIS Z-2801:2010 (ISO 22196)

Esta norma determina la actividad y eficacia antimicrobiana de productos antimicrobianos en superficies utilizando dos bacterias: Staphylococcus aureus y Escherichia coli.

La actividad antimicrobiana se determina comparando los resultados obtenidos entre la muestra tratada y la muestra control, después del tiempo de contacto determinado (24 horas a una temperatura óptima para el crecimiento del microorganismo seleccionado) y posterior cultivo. De esta forma, se obtendrá el valor de la actividad antimicrobiana.

La norma indica el parámetro R, índice de eficacia bactericida, que debe ser superior a $R > 2$ para considerar que la superficie es bactericida lo que equivale a una reducción del 99% de las bacterias.

TRATAMIENTO ANTIBACTERIANO

ANTIBACTERIAL TREATMENT

PURPOSE OF THE TREATMENT:

Bacteria are microorganisms that inhabit and breed inside living beings and in the environments in which we live.

We aspire to offer customers an antibacterial product that protects them from possible reactions to contamination by microorganisms in industrial areas, restaurants, poolside areas, dressing rooms, hospitals, health and rehabilitation centres and old people's homes.

Gres de Aragón has striven to develop an antibacterial, anti-fungal vitreous flooring that requires no ultra-violet ray treatment which can therefore be used both indoors and out, with natural or artificial light or in total darkness.

A global solution aimed at guaranteeing greater hygiene levels.

Additives developed using cutting-edge technology.

Long-lasting protection of surfaces.

Highly effective against opportunistic pathogens caused by acquired or hospital-borne illnesses.

Differentiation. A product with added value.

HOW IT WORKS:

The applied technology inhibits the growth of bacteria, fungus and yeast, while also ensuring odour and stain resistant protection. Strong synergies are generated between both materials, ensuring efficiency and durability.

The treatment is applied during the manufacturing process, prior to firing. The formulation reacts when the floor tiles are fired, without altering their properties or colours in any way.

For this purpose, components of purified modified clays are used to transport the antimicrobial compounds.

*The main component that is used is silver: a multi-specific broad-spectrum microbial agent of proven efficacy against a wide variety of opportunistic microorganisms and pathogens (bacteria and fungus), such as *E. coli*, *Legionella* sp, *Pseudomonas*, *Salmonella*, and *S. aureus*.*

This oligodynamic formulation acts on microorganisms, preventing their growth and eliminating them. (Antibacterial effect).

ANTIMICROBIAL TESTS:

Antimicrobial activity is assessed using the standard test of the efficacy of surface-bound antibacterial products. The JIS Z-2801:2010 standard (ISO 22196).

*This standard determines the antimicrobial activity and efficacy of surface-bound anti-microbial products, using two bacteria: *Staphylococcus aureus* and *Escherichia coli*.*

Antimicrobial activity is determined by comparing the results of a treated sample and control sample after a specific contact period (24 hours at an optimum temperature for the growth of the chosen microorganism) and their subsequent incubation. In this way, a value for antimicrobial activity is obtained.

The standard indicates the necessary R parameter, the indicator of antibacterial efficacy. This must be higher than $R > 2$ for the surface to be deemed to have antibacterial properties. This is equivalent to a 99% reduction in bacteria.