

SENSE COLLECTION

Tender Specifications

Supply of ceramic wall and floor tiles

Product characteristics

Single Fired Wall Tiles

The white body product is composed of a mixture of quality clay with the addition of feldspar, quartz and kaolin. It is manufactured by dry pressing of atomized powder, with the application of enamel, and then sintered by industrial burning at temperatures above 1100°C.

The product is resistant to cracking, bending, impact, staining, chemical attack and thermal shock.

The Gravity collection complies with the regulations required for top quality products in Europe according to EN 14411-L and internationally through ISO 13006-L.

Unglazed Porcelain Tiles (UGL)

Unglazed porcelain stoneware consists of a mixture of quality clay with the addition of feldspar, quartz and kaolin. It is manufactured by dry pressing of atomized powder and then sintered by industrial burning at temperatures above 1100°C. The glazing level of the material makes it possible to obtain a compact, non-porous product, resistant to ice, bending, impact, staining, chemical attack and thermal shock.

The Gravity collection complies with the regulations required for top quality products in Europe according to EN 14411-G and internationally through ISO 13006-G.

Quality and environmental certifications

The conservation of the product characteristics is guaranteed by the Quality Management System put into practice by Gres Panaria Portugal in its plants and certified in accordance with EN ISO 9001.

The collection is manufactured in plants with EN ISO 14001 certified Environmental Management Systems (internationally recognized standard) and EMAS (Regulation 1221/09 - eco-management and audit community system). The collection helps to meet the criteria for obtaining LEED credits.

Antibacterial properties - PR()TECT

Thanks to Protect® antibacterial technology, the tiles in the Gravity collection have continuous, effective and long-lasting protection against the proliferation of bacteria, tested and certified according to ISO 22196 and ASTM E3031.

Commercial description of the product							
Company	Love Ceramic Tiles	Love Ceramic Tiles					
Collection	Gravity	Gravity					
Colours	White, Beige, Light	White, Beige, Light Grey, Grey					
	Wall tiles	35x100 RET.	20x60				
Sizes	Wall tiles - Structures	35x100 RET Amazon, Scratch		35x70 RET Elevation, Botanic			
	Floor tiles (UGL)	30x80 RET. 60x60 RET.					
	Wall tiles	Matt - Matt looking surface. Recommended for interior wall cladding.					
Finish - Surface	Floor tiles (UGL)	Touch - Matt surface. Recommended for indoor flooring. In&out -					
Finish - Edge	Rectified (RET), No	n Rectified					
Thickness	Wall tiles	8mm _ 35x100 RET., 35x70 RET.					
	Floor tiles (UGL)	9mm _ 80x80 8mm _ 60x60, 30x60					



EMAS

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SENSE COLLECTION

Tender Specifications

Technical features

Product type: Single Fired Wall Tiles

According to: ISO 13006 - Annex L (Group BIII), EN 14411 - Annex L (Group BIII)

Technical features		Test method	Prescribed Value	Typical Value
Dimensions	Lenght and width		Non Rect. ± 0,6%, max ± 2,0 mm Rect. ± 0,3%, max ± 1,0 mm	Conform
	Side straightness		Non Rect. ± 0,5%, max ± 2,0 mm Rect. ± 0,3%, max ± 1,5 mm	Conform
	Rectangularity	EN ISO 10545-2	Non Rect. ± 0,5%, max ± 2,0 mm Rect. ± 0,3%, max ± 1,5 mm	Conform
	Warpage - Center and edge curvature	EN 150 10545-2	Non Rect. ± 0,5%, max ± 2,0 mm Rect. ± 0,4%, max ± 1,8 mm	Conform
	Warpage		Non Rect. ± 0,5%, max ± 2,0 mm Rect. ± 0,4%, max ± 1,8 mm	Conform
	Thickness		± 10% , max ± 0,5 mm	Conform
Wate	er absorption (E)	EN ISO 10545-3	E > 10%	16%
Modu	Ilus of rupture	EN ISO 10545-4	≥ 12 N/mm²	19 N/mm²
Breal	king strength (S)		S ≥ 600 N	700 N
Linea	r thermal expansion	EN ISO 10545-8	As indicated by manufacturer	α ≤ 7,5x10 ⁻⁶ °C ⁻¹ Maximum value
Therr	mal shock resistance	EN ISO 10545-9	Required	Resistant
Crazi	ng resistance	EN ISO 10545-11	Required	Resistant
Resistance against acids and alkalis			As indicated by manufacturer	GLB
Resis proud	stance to household cleaning sts	EN ISO 10545-13	Minimum: GB	GA
Stain	Resistance	EN ISO 10545-14	Minimum: class 3	4
Reco	mended joint	Rectified Indoor	-	Minimum 2 mm

It is guaranteed the compliance with the values required by norm EN 14411_Group BIII. Typical Value is merely indicative, which can vary from real data, and does not have the purpose of any trading proposal.







RECYCLED CONTENT





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EPD

LEED

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ANTIBACTERIANO



SENSE COLLECTION

Tender Specifications

Technical features

Product type: Unglazed Porcelain Tiles (UGL)

According to: ISO 13006 - Annex G (Group Bla), EN 14411 - Annex G (Group Bla)

Technical features		Test method	Prescribed Value	Typical Value	
Dimensions	Lenght and width		Non Rect. ± 0,6% , max ± 2,0 mm Rect. ± 0,3% , max ± 1,0 mm	Conform	
	Side straightness		Non Rect. ± 0,5% , max ± 2,0 mm Rect. ± 0,3% , max ± 1,5 mm	Conform	
	Rectangularity	EN ISO 10545-2	Non Rect. ± 0,5% , max ± 2,0 mm Rect. ± 0,3% , max ± 1,5 mm	Conform	
	Warpage		Non Rect. ± 0,5% , max ± 2,0 mm Rect. ± 0,4% , max ± 1,8 mm	Conform	
	Thickness		± 5% max ± 0,5 mm	Conform	
Wate	er absorption (E)	EN ISO 10545-3	E ≤ 0,5%	0,1%	
Modulus of rupture			≥ 35 N/mm²	50 N/mm²	
Breaking strength (S)		EN ISO 10545-4	S ≥ 1300 N	2500 N	
Abrasion resistance		EN ISO 10545-6	≤ 175mm³	139mm ³	
Linear thermal expansion		EN ISO 10545-8	As indicated by manufacturer	$\alpha \le 7,5x10^{-6} \ ^{\circ}C^{-1}$	
Thermal shock resistance		EN ISO 10545-9	Required	Resistante	
Craz	ing resistance	EN ISO 10545-11	Required	Resistante	
Frost resistance		EN ISO 10545-12	Required	Resistante	
Resis	stance against acids and alkalis	EN ISO 10545-13	As indicated by manufacturer	ULB	
Resistance to household cleaning proucts		EN 150 10545-15	Minimum: UB	UA	
Stain Resistance		EN ISO 10545-14	As indicated by manufacturer	4	
Slip Resistence		DIN 51130		R10 in&out	
		DIN 51097	As indicated by manufacturer	B in&out	
		BS 7976		≥36 in&out	
		AS/NZS 4586	As indicated by manufacturer	P4 in&out	
Shade Variation		ANSI A137.1	V0 None _ V1 Minor V2 Low _ V3 Medium V4 Major	V2	
Reco	omended joint	Rectified Indoor Rectified Outdoor	-	Minimum 2 mm Minimum 3 mm	

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