

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

Glazed Porcelain Tiles (GL)

Glazed 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, followed by the application of enamel and then sintered by industrial firing 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 Precious 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.

Commercial description of the product							
Company	Love Ceramic Tiles						
Collection	Precious						
Colours	Calacatta, Calacatta Gold						
Cina	Wall tiles	45x119 RET.	35x100 RET.	35x70 RET.			
Sizes	Floor tiles	80x80 RET 79x79 RET.	60x60 RET.				
	Wall tiles	Matt - Matt looking surface. Recommended for interior wall cladding. Brilho/Shine - Glossy looking surface. Recommended for interior wall cladding.					
Finish - Surface	Floor tiles	Matt - Matt surface. Recommended for indoor flooring. Polished - Very bright looking surface. Recommended for residential indoor floors or light foot traffic commercial spaces.					
Finish - Edge	Rectified (RET), Non Rectified						
Thickness	Wall tiles	10,5mm _ 45x119 8mm _ 35x100, 35x70					
THICKITESS	Floor tiles	9mm _ 80x80, 79x79, 60x60					

















EPD





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		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	ulus 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 Resistance to household cleaning proucts		EN ISO 10545-13	As indicated by manufacturer	GLB
			Minimum: GB	GA
Stain Resistance		EN ISO 10545-14	Minimum: class 3	4
Reco	mended joint	Rectified Indoor	-	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.





















Tender Specifications

Technical features

Product type: Glazed Porcelain Tiles (GL)

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%	0,2%
Modu	ulus of rupture	EN ISO 10545-4	≥ 35 N/mm²	40 N/mm²
Brea	king strength (S)		S ≥ 1300 N	2000 N
Abra	sion resistance	EN ISO 10545-7	As indicated by manufacturer	3-4
Linea	ar thermal expansion	EN ISO 10545-8	As indicated by manufacturer	α ≤ 7,5x10 ⁻⁶ °C ⁻¹ Maximum value
Ther	mal shock resistance	EN ISO 10545-9	Required	Resistant
Crazi	ng resistance	EN ISO 10545-11	Required	Resistant
Frost	resistance	EN ISO 10545-12	Required	Resistant
Resis	stance against acids and alkalis		As indicated by manufacturer	GLB
Resis proud	stance to household cleaning cts	EN ISO 10545-13	Minimum: GB	GA
Stain	Resistance	EN ISO 10545-14	Minimum: class 3	4
		DIN 51130		-
Oli I	Danietana -	DIN 51097	As indicated by manufacturer	-
Stip i	Resistence	BS 7976		-
		AS/NZS 4586	As indicated by manufacturer	-
Shade Variation		ANSI A137.1	V0 None _ V1 Minor V2 Low _ V3 Medium V4 Major	V1
Recomended joint		Non rectified Indoor Non rectified Outdoor Rectified Indoor Rectified Outdoor	-	3 mm 4 mm 2 mm 3 mm

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

Precious is suitable for light residential or commercial use, with low traffic.

Products with a polished finish are more sensitive to abrasion and stains, what requires special conditions. Please check technical information on chapter 9 from Love Tiles general catalogues.















