

Tender Specifications

Supply of ceramic wall and floor tiles

Product characteristics

Unglazed Body 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 Balance 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	Balance
Colours	White, Beige, Light Grey, Grey
Sizes	80x80 RET. _ 80x80 RET. AS
	60x60 RET. 61x61 _ 61x61 AS
	30x60 RET. 31x61 _ 31x61 AS
Finish - Surface	Natural - Surface with a natural touch. Recommended for residential flooring or for commercial spaces with medium/high traffic and outdoor spaces that do not require anti-slip properties. Touch - Surface with a smooth touch. Recommended for residential indoor floors or commercial spaces with medium/high traffic, which do not require anti-slip properties. Anti-slip (AS) - Product with a rough surface that gives it anti-slip properties. Recommended for use as outdoor flooring or indoor spaces that require anti-slip properties.
Finish - Edge	Rectified (RET), Non Rectified
Thickness	10mm_80x80 9mm_ 61x61, 60x60 8mm_31x61, 30x60



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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	EN ISO 10545-2	Non Rect. $\pm 0,6\%$, máx ± 2 mm Rect. $\pm 0,3\%$, máx ± 1 mm	Conform
	Side straightness		Non Rect. $\pm 0,5\%$, máx $\pm 1,5$ mm Rect. $\pm 0,3\%$, máx $\pm 0,8$ mm	Conform
	Rectangularity		Non Rect. $\pm 0,5\%$, máx ± 2 mm Rect. $\pm 0,3\%$, máx $\pm 1,5$ mm	Conform
	Warpage		Non Rect. $\pm 0,5\%$, máx ± 2 mm Rect. $\pm 0,4\%$, máx $\pm 1,8$ mm	Conform
	Thickness		$\pm 5\%$ máx $\pm 0,5$ mm	Conform
Water absorption (E)		EN ISO 10545-3	$E \leq 0,5\%$	0,1%
Modulus of rupture		EN ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Breaking strength (S)			$S \geq 1300$ N	2500 N
Abrasion resistance		EN ISO 10545-6	≤ 175 mm ²	139 mm ³
Linear thermal expansion		EN ISO 10545-8	As indicated by manufacturer	$\alpha \leq 7,5 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$ Maximum value
Thermal shock resistance		EN ISO 10545-9	Required	Resistant
Crazing resistance		EN ISO 10545-11	Required	Resistant
Frost resistance		EN ISO 10545-12	Required	Resistant
Resistance against acids and alkalis		EN ISO 10545-13	As indicated by manufacturer	ULB
Resistance to household cleaning proucts			Minimum: UB	UA
Stain Resistance		EN ISO 10545-14	As indicated by manufacturer	4
Slip Resistance	DIN 51130	As indicated by manufacturer	R11 AS R10 NATURAL	
	DIN 51097		C AS B NATURAL	
	BS 7976		≥ 36	
	AS/NZS 4586		-	
Shade Variation		ANSI A137.1	V0 None V1 Minor V2 Low V3 Medium V4 Major	V2
Recomended joint		Indoor	-	Minimum 2mm

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

