

Tender Specifications

Supply of ceramic wall and floor tiles

Product characteristics

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 Wildwood 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	Wildwood
Colours	Tortora, Light Grey, Grey
Sizes	60x60 RET. AS _ 60x60 AS
Finish - Surface	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	20mm _ 60x60



ERP are available on the website
www.lovetiles.com



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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	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% 60x60 20MM
Modulus of rupture		EN ISO 10545-4	≥ 35 N/mm ²	40 N/mm ²
Breaking strength (S)			$S \geq 1300$ N	10000N 60x60 20MM
Abrasion resistance		EN ISO 10545-7	As indicated by manufacturer	3-4
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	GLB
Resistance to household cleaning products			Minimum: GB	GA
Stain Resistance		EN ISO 10545-14	Minimum: class 3	4
Slip Resistance	DIN 51130	As indicated by manufacturer	As indicated by manufacturer	R11 AS
	DIN 51097			B AS
	BS 7976			≥ 36
	AS/NZS 4586	As indicated by manufacturer	-	
Shade Variation		ANSI A137.1	V0 None _ V1 Minor V2 Low _ V3 Medium V4 Major	V3
Recomended joint		20MM Non Rectifié Indoor 20MM Non Rectifié Outdoor 20MM Rectifié Indoor 20MM Rectifié Outdoor 20MM Raised floor	-	3mm 4mm 2mm 3mm 3mm

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.