

# **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  $1100^{\circ}$ 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 Timber 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	Timber			
Colours	White, Light Beige, Beige, Tortora, Brown			
Sizes	20x100 _ 20x100 AS			
Finish - Surface	Natural - Surface with a natural touch. Recommended for residential flooring or for commercial spaces with medium traffic and outdoor spaces that 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	Non Rectified			
Thickness	8mm			



















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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. ± 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		Non Rect. ± 0,5% , max ± 20 mm Rect. ± 0,3% , max ± 1,5 mm	Conform
	Warpage		Non Rect. ± 0,5% , max ± 2,0 mm Rect. ± 0,4% , máx ± 1,8 mm	Conform
	Thickness		± 5% max ± 0,5 mm	Conform
Water 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
Abras	sion resistance	EN ISO 10545-6	≤ 175mm²	3-4
Linea	ar thermal expansion	EN ISO 10545-8	As indicated by manufacturer	α ≤ 7,5x10 <sup>-6</sup> °C <sup>-1</sup> 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	ULB
Resistance to household cleaning products		EN ISO 10545-13	Minimum: UB	UA
Stain	Resistance	EN ISO 10545-14	As indicated by manufacturer	4
Slip Resistence		DIN EN 16165 _ Annex B	R11         AS           As indicated by manufacturer         C         AS           ≥36         AS	R11 AS
		DIN EN 16165 _ Annex A		C AS
		DIN EN 16165 _ Annex C		≥36 AS
		AS/NZS 4586	As indicated by manufacturer	-
Shad	e Variation	ANSI A137.1	V0 None _ V1 Minor V2 Low _ V3 Medium V4 Major	V2
Reco	mended joint	Non rectified Indoor Non rectified Outdoor	-	Minimum 3 mm Minimum 4 mm (6mm colour Brown)

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.















