

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

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	Genesis
Colours	White, Sand, Black, Red, Deep Blue, Green
Sizes	45x120 RET.
	35x100 RET.
	30x60 RET.
Finish - Surface	Matt - Matt looking surface. Recommended for interior wall cladding. Brilho/Shine - Glossy looking surface. Recommended for interior wall cladding.
Finish - Edge	Rectified (RET)
Thickness	11,5mm _ 45x120 10mm _ 35x100 8,5mm _ 30x60



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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	EN ISO 10545-2	Non Rect. $\pm 0,6\%$, máx $\pm 2,0$ mm Rect. $\pm 0,3\%$, máx $\pm 1,0$ 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 $\pm 2,0$ mm Rect. $\pm 0,3\%$, máx $\pm 1,5$ mm	Conform
	Warpage - Center and edge curvature		Non Rect. $\pm 0,5\%$, máx $\pm 2,0$ mm Rect. $\pm 0,4\%$, máx $\pm 1,8$ mm	Conform
	Warpage		Non Rect. $\pm 0,5\%$, máx $\pm 2,0$ mm Rect. $\pm 0,4\%$, máx $\pm 1,8$ mm	Conform
	Thickness		$\pm 10\%$, máx $\pm 0,5$ mm	Conform
Water absorption (E)		EN ISO 10545-3	E > 10%	16%
Modulus of rupture		EN ISO 10545-4	≥ 12 N/mm ²	19 N/mm ²
Breaking strength (S)			S ≥ 600 N	700 N
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
Resistance against acids and alkalis		EN ISO 1045-13	As indicated by manufacturer	GLB
Resistance to household cleaning proucts			Minimum: GB	GA
Stain Resistance		EN ISO 10545-14	Minimum: class 3	4

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.

