

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 Core 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 | Core |
| Colours | White, Beige, Tortora, Light Grey, Grey |
| Sizes | 35x100 RET. |
| | 30x60 RET. 31x62 |
| Finish - Surface | Matt - Matt looking surface. Recommended for interior wall cladding. |
| Finish - Edge | Rectified (RET), Non Rectified |
| Thickness | 10mm _ 35x100 8,5mm _ 30x60, 31x62 |



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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.

