LOVE CERAMIC TILES

HEARTWOOD COLLECTION

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 1200ºC.
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 Heartwood collection complies with the regulations required for top quality products in Europe according to EN 14411-G and internationally through ISO 13006-G.

Commercial description of the product	
Company	Love Ceramic Tiles
Collection	Heartwood
Colours	Light Beige, Beige, Dark Beige, Tortora
Sizes	40x120 RET. AS*
	25x150 RET.
	20x100 _ 20x100 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. 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 _ 40x120* | 9mm _ 25x150 | 8mm _ 20x100

* available only in colours Beige and Dark Beige.

ISO 9001 | ISO 14001 | ISO 50001 · EMAS · ENVIRONMENTAL PRODUCT DECLARATION · LEED · GREENGUARD GOLD · HEALTHY BUILDING PRODUCTS · HEALTH PRODUCT DECLARATION

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Technical features

Product type: **Glazed Porcelain Tiles (GL)**
According to: ISO 13006 - Annex G (Group BIa), EN 14411 - Annex G (Group BIa)

Technical features		Test method	Required value ISO 13006 / EN 14411	Typical Value Love Tiles
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 ± 2,0 mm Rect. ± 0,3% , max ± 1,5 mm	Conform
	Warpage		Non Rect. ± 0,5% , max ± 2,0 mm Rect. ± 0,4% , max ± 1,8 mm	Conform
	Thickness		± 5% max ± 0,5 mm	Conform
Water absorption (E)		EN ISO 10545-3	E ≤ 0,5%	0,2%
Modulus of rupture		EN ISO 10545-4	≥ 35 N/mm²	45 N/mm²
Breaking strength (S)			S ≥ 1300 N	11000 N 40x120 2000 N 25x150 1600 N 20x100
Abrasion resistance		EN ISO 10545-6	≤ 175mm²	2-4
Linear thermal expansion		EN ISO 10545-8	As indicated by manufacturer	$\alpha \leq 7{,}5x10^{-6}$ °C^{-1}
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: UB	GA
Stain Resistance		EN ISO 10545-14	As indicated by manufacturer	4
Slip Resistence		DIN EN 16165 _ Annex B	As indicated by manufacturer	R11 AS R10 Nat.
		DIN EN 16165 _ Annex A		Class C AS Class B Nat.
		DIN EN 16165 _ Annex C		≥36 AS
		AS/NZS 4586		P5 AS P3 Nat.
		ENV 12633		Class 3 AS Class 2 Nat.
Shade Variation		ANSI A137.1	V0 None _ V1 Minor V2 Low _ V3 Medium V4 Major	V3
Recomended joint		Non rectified Indoor Non rectified Outdoor Rectified Indoor Rectified Outdoor / 20MM 20MM Raised floor	-	3 mm 4 mm 2 mm 3 mm 3 mm

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.

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Tender Specifications

Quality and environmental certifications

Certification ISO 9001 - ISO 14001 - ISO 50001
Quality, Environment and Energy Management Systems.
For establishments seeking low environmental impact and high efficiency.

download ISO 9001, ISO 14001 and ISO 50001

DoP - Performance Declaration
The CE mark is a safety certification required by the European Union with the intention of safeguarding health and safety.

download DoP porcelain tiles

EMAS
Community eco-management and auditing system. Being green and transparent.

download EMAS

LEED
Love Tiles is a member of the U.S. Green Building Council and of the Green Building Council ITALIA. These organizations promote the construction of buildings and other works which respect the environment as well as the health and well-being of the people who live and work within them.

download U.S. Green Building Council and Green Building Council Italy

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EPD
The Environmental Product Declaration

download EPD porcelain tiles

GREENGUARD GOLD
GREENGUARD certifies products that guarantee the highest standards of air quality in indoor environments.

download Greenguard Gold

HEALTHY BUILDING PRODUCTS

download Declare porcelain tiles

HPD
Health Product Declaration

Protect® antibacterial technology
Continuous, effective and long-lasting protection against the proliferation of bacteria, tested and certified according to ISO 22196 and ASTM E3031. Anti-slip finish doesn't have antibacterial protection.

download Protect