



Ref. standard

EN 14411: 2012 Ceramic floor and wall tiles: definitions, classification, characteristics and marking

Product type

Dry pressed: group Bla UGL
 Full body porcelain tiles | natural edge | matt surface

Collection
Formats
Colors

COPPER NAT
 (30x60) 30x60x0.85 cm
 Copper

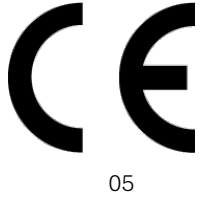


TEST METHODS		STANDARD METHOD	STANDARD VALUE	TYPICAL VALUE
Length and Width ¹⁾		ISO 10545-2	± 0.6% max. 2.0 mm	± 0.3% max. ± 1.8 mm
Thickness ¹⁾			± 5% max. ± 0.5 mm	± 5% max. ± 0.5 mm
Straightness of the edges ²⁾			± 0.5% max. ± 2.0 mm	± 0.3% max. ± 1.5 mm
Orthogonality ²⁾			± 0.5% max. ± 2.0 mm	± 0.3% max. ± 1.8 mm
Surface flatness ²⁾			± 0.5% max. ± 2.0 mm	± 0.3% max. ± 1.8 mm
Surface quality (% defect free)			≥ 95%	Complies
Water absorption		ISO 10545-3	< 0.5%	< 0.05%
Bending strength	8,5 mm	ISO 10545-4	≥ 1300 N	≥ 2000 N
Rupture modulus		ISO 10545-4	> 35 N/mm ²	> 45 N/mm ²
Resistance to deep abrasion		ISO 10545-6	< 175 mm ³	< 120 mm ³
Coefficient of linear thermal expansion (with atmospheric temperature up to 100 °C)		ISO 10545-8	As indicated by producer	≤ 8,0x10-6 °C-1
Resistance to thermal shock		ISO 10545-9	Required	Resist
Resistant to frost		ISO 10545-12	Required	Resist
Resistance against acids and alkalis	low concentrations	ISO 10545-13	As indicated by producer	Class LA
	high concentrations		As indicated by producer	Class HA
Resistance to household chemicals and swimming pool water additives		ISO 10545-13	Min. Class B	Class A
Resistance to staining		ISO 10545-14	As indicated by producer	Class 5
Antislip resistance		DIN 51130	Max. R13	-
		DIN 51097	Max. C	-
		ENV 12633	Max. class 3	-
		BS 7976 [#96 rubber]	Test method available	-
		ANSI A137-1 [DCOF]	Test method available	-
Reaction to fire		EN 13823 . EN 9239-1	A1 _{FL}	Class A1FL / Class A1

¹⁾ permissible deviation of the average value for each tile from the work size (w); ²⁾ deviation related to corresponding work sizes;

Revigres guarantees compliance with all the requirements of the EN 14411 Grupo Bla UGL standard.
 The typical value is indicative and does not have the nature of a negotiation proposal.
 Technical specifications are only valid for the products classified as 1st choice.
 The use of the product must be adapted to its traffic intensity and slip resistance classification.
 For additional information, please contact: revigres@revigres.pt.

By the Quality Department
 2024.08.31



Ref. standard EN 14411: 2012 Ceramic floor and wall tiles: definitions, classification, characteristics and marking
Product type Dry pressed: group Bla UGL
 Full body porcelain tiles | edge rectified | matt surface

Collection COPPER RECT
Formats (30x60) 29.5x59.2x0.85 | (60x60) 59.2x59.2x0.85 | (60x120) 59.2x118.6x0.98 cm
Colors Copper



TEST METHODS	STANDARD METHOD	STANDARD VALUE	TYPICAL VALUE
Length and Width ¹⁾	ISO 10545-2	± 0.6% max. 2.0 mm	± 0.1% max. ± 1.0 mm
Thickness ¹⁾		± 5% max. ± 0.5 mm	± 5% max. ± 0.5 mm
Straightness of the edges ²⁾		± 0.5% max. ± 2.0 mm	± 0.2% max. ± 0.8 mm
Orthogonality ²⁾		± 0.5% max. ± 2.0 mm	± 0.2% max. ± 1.5 mm
Surface flatness ²⁾		± 0.5% max. ± 2.0 mm	± 0.3% max. ± 1.8 mm
Surface quality (% defect free)		≥ 95%	Complies
Water absorption	ISO 10545-3	< 0.5%	< 0.05%
Bending strength	ISO 10545-4	8.5 mm ≥ 1300 N	≥ 2000 N
		9.8 mm ≥ 1300 N	≥ 3500 N
Rupture modulus	ISO 10545-4	> 35 N/mm ²	> 45 N/mm ²
Resistance to deep abrasion	ISO 10545-6	< 175 mm ³	< 120 mm ³
Coefficient of linear thermal expansion (with atmospheric temperature up to 100 °C)	ISO 10545-8	As indicated by producer	≤ 8,0x10 ⁻⁶ °C ⁻¹
Resistance to thermal shock	ISO 10545-9	Required	Resist
Resistant to frost	ISO 10545-12	Required	Resist
Resistance against acids and alkalis	ISO 10545-13	low concentrations As indicated by producer	Class LA
		high concentrations As indicated by producer	Class HA
Resistance to household chemicals and swimming pool water additives	ISO 10545-13	Min. Class B	Class A
Resistance to staining	ISO 10545-14	As indicated by producer	Class 5
Antislip resistance	DIN 51130	Max. R13	-
	DIN 51097	Max. C	-
	ENV 12633	Max. class 3	-
	BS 7976 [#96 rubber]	Test method available	-
	ANSI A137-1 [DCOF]	Test method available	-
Reaction to fire	EN 13823 . EN 9239-1	A1 _{FL}	Class A1FL / Class A1

¹⁾ permissible deviation of the average value for each tile from the work size (w); ²⁾ deviation related to corresponding work sizes;

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