

COLOURED BODY PORCELAIN TILES - RECTIFIED MONOCALIBER


60x60 cm 24"x24"
30x60 cm 12"x24"

± 10 mm
± 10 mm



This tiles complies recommended standard specifications for ceramics tiles ANSI A.137.1.
Dry-pressed ceramic tiles with low water absorption ($E_b \leq 0,5\%$) Group Bla, ISO 13006:2012 (EN 14411:2012) annex G UGL

REGULARITY CHARACTERISTICS		Technical features	Test Method	Requirements for nominal size N			IMPERO		
				7 cm ≤ N < 15 cm		N ≥ 15 cm	MATT	POLISHED	
				(mm)	(%)	(mm)			
STRUCTURAL CHARACTERISTICS		Length and width	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	± 0,2% ± 0,8 mm	± 0,2% ± 0,8 mm	
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	± 5,0% ± 0,5 mm	± 5,0% ± 0,5 mm	
		Straightness of sides		± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	± 0,2% ± 0,8 mm	± 0,2% ± 0,8 mm	
		Rectangularity		± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	± 0,3% ± 1,3 mm	± 0,3% ± 1,3 mm	
		Surface flatness		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	± 0,3% ± 1,3 mm	± 0,3% ± 1,3 mm	
				e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0			
				w. ± 0,75	w. ± 0,5	w. ± 2,0			
				EN 14411 annex G (Group Bla)		ISO 13006 annex G (Group Bla)			
BULK MECHANICAL CHARACTERISTICS		Water absorption	ISO 10545-3	$E_b \leq 0,5\%$ Individual Maximum 0,6%			≤ 0,1 %	≤ 0,1 %	
				Requirement ANSI A137.1 Water Absorption Max ≤ 0,5%			≤ 0,5 %	≤ 0,5 %	
SURFACE MECHANICAL CHARACTERISTICS		Breaking strength	ISO 10545-4	S ≥ 1300 N			S ≥ 2000 N	S ≥ 2000 N	
		Modulus of rupture		R ≥ 35 N/mm²			R ≥ 40 N/mm²	R ≥ 40 N/mm²	
THERMAL AND HYGROMETRIC CHARACTERISTICS		Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value	Test method available		≥ 0,55	≥ 0,55	
		Mohs hardness	EN 101 ⁽¹⁾	≥ 6 (UGL)			Suitable for	5	
		Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm³			≤ 150 mm³	≤ 150 mm³	
		Coefficient of thermal linear expansion	ISO 10545-8	Declared value	Test method available		≤ 7 MK⁻¹	≤ 7 MK⁻¹	
		Thermal shock resistance	ISO 10545-9	Pass according to ISO 10545-1	Test method available		Resistant	Resistant	
		Moisture expansion (in mm/m)	ISO 10545-10	Declared value	Test method available		≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)	
PHYSICAL PROPERTIES		Frost resistance	ISO 10545-12	Pass according to ISO 10545-1	Test method available		Resistant	Resistant	
		Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared value	-		≥ 1,0 N/mm² (Class C2 - EN 12004)	≥ 1,0 N/mm² (Class C2 - EN 12004)	
CHEMICAL CHARACTERISTICS		Reaction to fire	-	Class A1 or A1 _{fl}	-		A1 - A1 _{fl}	A1 - A1 _{fl}	
		Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B (UB for unglazed tiles)			UA	UA	
SAFETY CHARACTERISTICS		Resistance to low concentrations of acids and alkalis		Declared Class	Test method available		ULA	ULB	
		Resistance to high concentrations of acids and alkalis		Declared Class	Test method available		UHA	-	
		Resistance to staining	ISO 10545-14	Minimum Class 3			5	5	
		Dynamic coefficient of friction (DCOF)	ANSI A137.1-2012	ANSI A.137.1 Requires a minimum value of 0.42 for commercial areas that are likely to be wet.			> 0,42 Wet	< 0,42 Wet	
		Static coefficient of friction (SCOF)	ASTM C1028-2007	The Ceramic Tiles Institute identifies Tile Slip Resistant when SCOF ≥ 0,60			≥ 0,60 Dry ≥ 0,60 Wet	≥ 0,60 Dry 0,50÷0,60 Wet	

(*) The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (W).

(**) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (W).

(***) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (W).

(****) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).

c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work sizes (W).

w. The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (W).

(1). Requirements european standard EN 176.