


















TECHNICAL FEATURES-COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) ANNEX G GROUP BLA

TECHNICAL FEATURE		TEST METHOD	REQUIRED STANDARDS	09315 PORCELAIN TILE happywood
Fire Resistance		CEE DECISION 96/603 AND ITS AMENDMENTS	Fireproof	CLASS A1
Nontoxic Determination of the sale of lead and cadmium		ISO 10545/15-00	Test method available	Conforms
Index of radioactivity		UNI 10797:1999	Class A ≤1,3 - ≤1,0 Class B ≤1,9 - ≤1,3	Non-radioactive
Size characteristics		ISO 10545-2	Length and width Thickness Wedging Flatness	$\pm 0,3\%$ $100\text{cm}^2 \text{ - } 100\text{cm}^2$ $\pm 0,5\%$ $\pm 3\%$ $\pm 2\%$ Ground to size $\pm 0,15\%$ $\pm 0,3\%$
Water absorption		ISO 10545-3	$E \leq 0,5\%$	$E \leq 0,2\%$
Breaking strength		ISO 10545-4	$\geq 35 \text{ N/mm}^2 \text{ min.}$ $\geq 355 \text{ kg/cm}^2$	$\geq 50 \text{ N/mm}^2$ $\geq 510 \text{ kg/cm}^2$
Impact resistance - Coefficient of restitution		ISO 10545-5	Test method available	> 0.80
Frost proof		ISO 10545-12	Request	Resistant
Linear thermal expansion coefficient		ISO 10545-8	Test method available	$\alpha \leq 7 \times 10^{-4} \text{ } ^\circ\text{C}^{-1}$
Resistance to thermal shocks		ISO 10545-9	Test method available	Resistant
Moisture expansion: in mm/m		ISO 10545-10	Test method available	$\leq 0,06\%$
Crazing resistance (glazed tiles)		ISO 10545-11	Request	Resistant
Mohs hardness		ENI 101	≥ 6	> 7
Resistance to chemicals		ISO 10545-13	Glazed Tiles <small>According to manufacturer's classification</small>	Resistant
Resistance to household chemicals		ISO 10545-13	Glazed tiles	$\geq \text{GB}$ UA Resistant
Stain resistance		ISO 10545-14	Glazed tiles	Class ≥ 3 ≥ 4
Antislip class		DIN 51130	Depending on the environment or the working area	R9 R10 Antislip version

TYPE	GLAZED PORCELAIN
SIZES	THICKNESS
5 ⁷ / ₁₆ x23 ⁵ / ₁₆	3 ³ / ₁₆
3 ¹⁵ / ₁₆ x23 ⁵ / ₁₆	3 ³ / ₁₆











Made in Italy



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TECHNICAL CHARACTERISTICS GLAZED PORCELAIN ANSI 137.1

TECHNICAL CHARACTERISTICS		TEST METHOD	ANSI 137.1 Values required for glazed impervious porcelain tiles	VALUES GLAZED PORCELAIN
Water absorption (E)		ASTM C373	$E \leq 0,5\%$	Conforms
Breaking strength (S)		ASTM C648	$\geq 250 \text{ Lbs}$	Conforms
Resistance to surface abrasion (PEI)		ASTM C1027	Not required	PEI IV - PEI V
Linear thermal expansion coefficient		ASTM C372	Not required	$\alpha \leq 8 \times 10^{-4} \text{ } ^\circ\text{C}^{-1}$ $\alpha \leq 4,4 \times 10^{-4} \text{ } ^\circ\text{C}^{-1}$
Frost proof		ASTM C1026	No alterations	Resistant
Resistance to chemicals		ASTM C650	Not required	Resistant
Stain resistance		CTI 81-7 Annexe D	Not required	Resistant
Slip resistance (coefficient of static friction Fc)		ASTM C1028	$F_c < 0.50$ Questionable $0.50 \leq F_c < 0.60$ Conditionally slip resistant $F_c \geq 0.60$ Slip resistant	DRY ≥ 0.65-WET ≥ 0.60 DRY ≥ 0.70-WET ≥ 0.65 Antislip version

All Novabell products meet or exceed all standards in ANSI A 137.1

Due to the inherent nature of fired porcelain tile, it is important to note that the coefficient of friction may vary within and between product runs.

