



Rovere



0lmo



Castagno



Noce



Olivo



QU31RT 200 x 1200mm 7" ^{7/8} x 47" ^{1/4}

QU41RT 200 x 1200mm 7" ^{7/8} x 47" ^{1/4}

QU51RT 200 x 1200mm 7" ^{7/8} x 47" ^{1/4}

QU61RT 200 x 1200mm 7" ^{7/8} x 47" ^{1/4}

QU71RT 200 x 1200mm 7" ^{7/8} x 47" ^{1/4}







The International reference standards : ANSI - ASTM NATURALE

The values of the main technical characteristics measured on our products, compared with international standards, are clearly shown and reproduced on

our contractual documents (catalogs, price lists, etc.).

The values given in this document are common to groups of articles or series of our tiles and therefore are to be used as a guide for a first orientation in choosing the product. If required, the specific values for a given product of a determined supply can be provided depending on its intended use, when formally brought to our attention by notice in writing.

Characteristics and Test methods	Requirements ANSI A 137.1	Our general values
Determination of water absorption - (ASTM C 373)	Average value ${\sf E}_{\sf b}{\leq}0{,}5$ %	Average value ≤ 0,5%
Classification	Definition § 3.0	Porcelain tiles
		Physical properties
Breaking strenghth - (ASTM C 648)	Average \geq 250 lbf (1.11 kN) Individual \geq 225 lbf (1.00 kN)	Complies
Visible abrasion - (ASTM C 1027)	As reported	PEI 4 : Cocco
		PEI V : Orzo-Soia-Canapa-Lino-Avena-Cotone
Thermal shock resistance (ASTM C 428)	Pass	Complies
Crazing resistance (ASTM C 424)	Pass	Complies
Resistance to freeze/thaw cycling (ASTM C 1026)	As reported	Resistant
DCOF Resistance (ANSI A 137.1 Section 9.6)	≥ 0.42 ⁽¹⁾	DCOF ≥ 0.42
Bond strength (ASTM C 482)	≥ 50 psi (0.34 MPa)	> 1 MPa
Color Uniformity (ASTM C 609 and ANSI A 137.1 Section 9.3) (2)	V0 – 3 Judds	See the specific section
		Chemical properties
Chemical resistance (ASTM C 650)	As reported	Resistant
Stain resistance (ASTM C 1378)	As reported	Resistant
		Dimensions - Calibrated tiles
Dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	See ANSI A 137.1 - Tab.10	Complies
		Dimensions - Rectified tiles
Dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	See ANSI A 137.1 - Tab.10	Complies

(1) For level interior spaces expected to be walked upon when wet - (2) For V0 tiles only

Technical features

The International reference standards : ANSI - ASTM NATURALE

The international reference standards: ISO - EN

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Characteristics and Test methods EN 14411 ⁽¹⁾ – C / ISO 13006 ⁽²⁾ – C Our general values			
	EN 14411 ⁽¹⁾ – G / ISO 13006 ⁽²⁾ - G	Our general values	
Determination of water absorption - (ISO 10545-3)	Average value $E_b \leq 0.5~\%$ / Individual maximum 0.6%	Average value and individual maximum < 0,5%	
Classification	Definition § 3.2 and § 3.7	Bl _a – Porcelain tiles	
		Physical properties	
Modulus of rupture - (ISO 10545-4)	Average ≥ 35 N/mm ²	≥ 35 N/mm2	
Breaking strength - (ISO 10545-4)	Average \ge 1300 N for thickness \ge 7,5 mm Average \ge 700 N for thickness < 7,5 mm	Complies	
Abrasion resistance - (ISO 10545-7)	Abrasion class and cycles passed	PEI 4 : Cocco	
		PEI V : Orzo-Soia-Canapa-Lino-Avena-Cotone	
Coefficient of linear thermal expansion (ISO 10545-8)	Declared value ⁽¹⁾ / Test method available ⁽²⁾	< 7,1 x 10 ⁻⁶ °C ⁻¹	
Thermal shock resistance (ISO 10545-9)	Pass according to EN ISO 10545-1 ⁽¹⁾ / Test method available ⁽²⁾	Complies	
Crazing resistance (ISO 10545-11)	Pass according to EN ISO 10545-1 ⁽¹⁾ / Required ⁽²⁾	Complies	
Frost resistance (ISO 10545-12)	Pass according to EN ISO 10545-1 ⁽¹⁾ / Required ⁽²⁾	Complies	
Moisture expansion (ISO 10545-10)	Declared value ⁽¹⁾ / Test method available ⁽²⁾	≤ 0,2 mm/m	
Small colour differences (ISO 10545-16)	$\Delta E_{cmc} < 0.75^{(1)}$	If agreed	
Impact resistance - (ISO 10545-5)	Declared value ⁽¹⁾ /Test method available ⁽²⁾	COR > 0,75	
Reaction to fire	Class A1 or A1 _{FL} ⁽¹⁾	A1 _{FL} Classified Without Testing (CWT) - 96/603	
		Chemical properties	
Chemical resistance -(GL) (ISO 10545-13)			
Resistance to low and high concentrations of acids and alkalis	Declared value ⁽¹⁾ / Manufacturer is to state classification ⁽²⁾	Resistant (see "Maintenance and care" section)	
Resistance to household chemicals and swimming pool salts	Minimum class B	GA	
Resistance to staining (ISO 10545-14)	Minimum class 3	5 (see "Maintenance and care" section)	
Release of dangerous substances (ISO 10545-15)	Declared value ⁽¹⁾ / Test method available ⁽²⁾	Pb < 0,1 / Cd < 0,01 mg/dm ²	
		Dimensions and surface quality	
Dimensions - (ISO 10545-2)	See ANNEX G	Complies	
Surface quality - (ISO 10545-2 § 7)	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles	Complies	
 Requirements according to EN 14411 	(2) Requirements according to ISO 13006		
Test methods	Requirements and references	Our general values	
Determination of anti-slip properties – Workrooms and fields of activities with raised slip danger, walking method- Ramp test (DIN 51130) – Germany	BGR / ASR From R9 to R13	R 10	
Determination of anti – slip properties. Wet-loaded barefoot areas – Walking method – Ramp test (DIN 51097) - Germany	GUV-I 8527 A – B – C	A+B	
Dynamic Coefficient Friction wet and dry condition (BCR - ex BCRA)	DM n. 236 / 1989 μ > 0,40	μ > 0,40	



La tabella in italiano con i dati tecnici e scaricabile su www.novabell.it



Si vous le souhaitez, telechargez le tableau contenant les donnees techniques en francais en allant sur www.novabell.it





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