


The international reference standards: ISO - EN

# NATURALE

Characteristics and Test methods 	Requirements EN 14411 <sup>(1)</sup> – G / ISO 13006 <sup>(2)</sup> - 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%
<b>Classification</b>	<b>Definition § 3.2 and § 3.7</b>	<b>BI<sub>a</sub> – Porcelain tiles</b>
		<b>Physical properties</b>
Modulus of rupture - (ISO 10545-4)	Average $\geq 35$ N/mm <sup>2</sup>	$\geq 35$ N/mm <sup>2</sup>
Breaking strength - (ISO 10545-4)	Average $\geq 1300$ N for thickness $\geq 7,5$ mm Average $\geq 700$ N for thickness < 7,5 mm	Complies
Abrasion resistance - (ISO 10545-7)	Abrasion class and cycles passed	Class 0 - 5
NovaBell classification of abrasion resistance	Annex N	<b>Class 4</b>
Coefficient of linear thermal expansion (ISO 10545-8)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	$< 7,1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Thermal shock resistance (ISO 10545-9)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Test method available <sup>(2)</sup>	Complies
Crazing resistance (ISO 10545-11)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Required <sup>(2)</sup>	Complies
Frost resistance (ISO 10545-12)	Pass according to EN ISO 10545-1 <sup>(1)</sup> / Required <sup>(2)</sup>	Complies
Moisture expansion (ISO 10545-10)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	$\leq 0,2$ mm/m
Small colour differences (ISO 10545-16)	$\Delta E_{cmc} < 0,75^{(1)}$	If agreed
Impact resistance - (ISO 10545-5)	Declared value <sup>(1)</sup> /Test method available <sup>(2)</sup>	COR > 0,75
Reaction to fire	Class A1 or A1 <sub>FL</sub> <sup>(1)</sup>	<b>A1<sub>FL</sub> Classified Without Testing (CWT) – 96/603</b>
		<b>Chemical properties</b>
Chemical resistance -(GL) (ISO 10545-13)		
Resistance to low and high concentrations of acids and alkalis	Declared value <sup>(1)</sup> / Manufacturer is to state classification <sup>(2)</sup>	Resistant (see "Maintenance and care" section)
Resistance to household chemicals and swimming pool salts	Minimum class B	G A
Resistance to staining (ISO 10545-14)	Minimum class 3	5 (see "Maintenance and care" section)
Release of dangerous substances (ISO 10545-15)	Declared value <sup>(1)</sup> / Test method available <sup>(2)</sup>	Pb < 0,1 / Cd < 0,01 mg/dm <sup>2</sup>
		<b>Dimensions and surface quality</b>
Dimensions - (ISO 10545-2)	See ANNEX G	Complies
Surface quality - (ISO 10545-2 § 7)	<b>A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles</b>	Complies


(1) 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) Italy	DM n. 236 / 1989 $\mu > 0,40$	$\mu > 0,40$
Scratch hardness of surface according to Mohs'	ex BS 6431-13 / ex EN 101	$\geq 5$


 La tabella in italiano con i dati tecnici è scaricabile su [www.novabell.it](http://www.novabell.it)

 The English language technical specification for each collection can be downloaded from [www.novabell.it](http://www.novabell.it)

 Die Tabelle in deutscher Sprache kann auf [www.novabell.it](http://www.novabell.it) heruntergeladen werden.

 Si vous le souhaitez, téléchargez le tableau contenant les données techniques en français en allant sur [www.novabell.it](http://www.novabell.it)

 Descargue la tabla de datos técnicos en español, disponible en [www.novabell.it](http://www.novabell.it)

 Таблицу на русском языке с техническими данными можно скачать с сайта [www.novabell.it](http://www.novabell.it)