



TECHNICAL FEATURES	
Collection: Re_resolution Surface: Naturale	Brand: Ragno
Size (cm): 75X150 RT	Thickness (mm): 10,5
Size (cm): 60X60 RT - 30X60 RT - 60X120 RT - 75X75 RT	Thickness (mm): 10

Compliant with standard EN 14411:2016 annex G group B1a - UGL

Compliant with standard ISO 13006:2018 annex G group B1a - UGL

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits	
<b>DIMENSIONAL PROPERTIES AND SURFACE QUALITY</b>					
Dimensions				Nominal Length of edge N (cm) $7 \leq N < 15$ Nominal Length of edge N (cm) $N \geq 15$	
<b>Length and width (*)</b>	ISO 10545-2	(mm) (%)	Complies with the standards	$\pm 2\%$ (max 5mm) $\pm 2\%$ (max 5mm) $\pm 2\%$ (max 5mm)	
<b>Length and width (**)</b>					
Not Rectified			Complies with the standards	$\pm 0,9$ mm	$\pm 0,6\%$ $\pm 2,0$ mm
Rectified				$\pm 0,4$ mm	$\pm 0,3\%$ $\pm 1,0$ mm
<b>Thickness</b>					
Not Rectified			Complies with the standards	$\pm 0,5$ mm	$\pm 5\%$ $\pm 0,5$ mm
Rectified				$\pm 0,5$ mm	$\pm 5\%$ $\pm 0,5$ mm
<b>Straightness of sides</b>					
Not Rectified			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$ $\pm 1,5$ mm
Rectified				$\pm 0,4$ mm	$\pm 0,3\%$ $\pm 0,8$ mm
<b>Rectangularity</b>					
Not Rectified			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$ $\pm 2,0$ mm
Rectified				$\pm 0,4$ mm	$\pm 0,3\%$ $\pm 1,5$ mm
<b>Surface Flatness c.c - e.c. - w.</b>					
Not Rectified			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$ $\pm 2,0$ mm
Rectified				$\pm 0,6$ mm	$\pm 0,4\%$ $\pm 1,8$ mm
<b>Surface Quality</b>			Complies with the standards	$\geq 95\%$	
<b>PHYSICAL PROPERTIES</b>					
Water absorption	ISO 10545-3	(%)	$\leq 0,5$	$E_b \leq 0,5$ (Individual maximum value 0,6%)	
Modulus of rupture	ISO 10545-4	(N/mm <sup>2</sup> )	$\geq 35$	$R \geq 35$ (Individual minimum value 32 N/mm <sup>2</sup> )	
Breaking Strength	ISO 10545-4	(N)	$\geq 1300$	$\geq 1300$ (Thickness $\geq 7,5$ mm) $\geq 700$ (Thickness $< 7,5$ mm)	
Resistance to deep abrasion	ISO 10545-6	(mm <sup>3</sup> )	$\leq 175$	$\leq 175$	
Resistance to surface abrasion	Internal Method		Intended use - Class H		
Linear thermal expansion coefficient	ISO 10545-8	( $\times 10^{-6}/^{\circ}\text{C}$ )	$\leq 9$	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)	
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2016) **** Test Method available (ISO 13006:2018)	
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)	
Reaction to fire	-	-	Floor/Wall Class A1 FL / A1	Class A1 or Class A1 FL	
Colour resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.	



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<b>CHEMICAL PROPERTIES</b>				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		A	UB Minimum (EN 14411:2016) UB Minimum (ISO 13006:2018)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA-LB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA-HB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Stain resistance	ISO 10545-14		Class 5	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
<b>ANTISLIIPPY PROPERTIES</b>				
Slipperiness Resistance: Ramp Method	DIN 51130 B.G.R. 181		R10	from R9 to R13
Slipperiness Resistance: B.C.R.	D.M. N.236 14/6/89		$\mu > 0,40$	$\mu > 0,40$
Slipperiness Resistance: Pendulum	ENV 12633 BOE N.74 del 2006		Class 1	from Class 0 to Class 3
Dynamic coefficient of friction (DCOF)	ANSI A137.1:2012		$> 0,42$	$\geq 0,42$

\* The work size shall be chose, for non-modular tiles, so that the difference between the work size and the nominal size is:

\*\* The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size..

\*\*\*\* See Table 2 for uses where it is applicable

c.c. Centre curvature, related to diagonal calculated from the work sizes

e.c. Edge curvature, related to the corresponding work sizes.

w. Warpage, related to diagonal calculated from the work sizes.

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