



TECHNICAL FEATURES			
Collecion	Realstone quarzite strutturato	Brand	Ragno
Size (cm)	60X120	Thikness (mm)	10,5
Size (cm)	60X60	Thikness (mm)	10
Size (cm)	30X60	Thikness (mm)	10

Compliant with standard EN 14411:2012 annex G group BIa - UGL
 Compliant with standard ISO 13006:2012 annex G group BIa - UGL

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits		
DIMENSIONAL PROPERTIES AND SURFACE QUALITY						
Dimensions				Nominal Length of edge N (cm) $7 \leq N < 15$	Nominal Length of edge N (cm) $N \geq 15$	
Length and width (*)	ISO 10545-2	(mm) (%)	Complies with the standards	$\pm 2\%$ (max 5mm)	$\pm 2\%$ (max 5mm)	$\pm 2\%$ (max 5mm)
Length and width (**)			Complies with the standards	$\pm 0,9$ mm	$\pm 0,6\%$	$\pm 2,0$ mm
Thickness			Complies with the standards	$\pm 0,5$ mm	$\pm 5\%$	$\pm 0,5$ mm
Straightness of sides			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$	$\pm 1,5$ mm
Rectangularity			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$	$\pm 2,0$ mm
Surface Flatness c.c - e.c. - w.			Complies with the standards	$\pm 0,75$ mm	$\pm 0,5\%$	$\pm 2,0$ mm
Surface Quality		(%)	Complies with the standards	$\geq 95\%$		
PHISICAL PROPERTIES						
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 ²)	≥ 35	$R \geq 35$ (Individual minimum value 32 N/mm ²)		
Breaking strenght	ISO 10545-4	(N)	≥ 1300	≥ 1300 (Thickness $\geq 7,5$ mm) ≥ 700 (Thickness $< 7,5$ mm)		
Resistance to deep abrasion	ISO 10545-6	(mm ³)	≤ 175	≤ 175		
Resistance to surface abrasion	Internal Method		Intended use - Class H			
Linear thermal expansion coefficient	ISO 10545-8	($\times 10^{-6}$)/°C	≤ 9	Declared value (EN 14411:2012) Testing Method available (ISO 13006:2012)		
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2012) **** Test Method available (secondo ISO 13006:2012)		
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2012) Required (ISO 13006:2012)		
Recation to fire	-	-	Floor/Wall Class A1 FL / A1	Class A1 or Class A1 FL (EN 14411:2012)		
Colour resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.		



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CHEMICAL PROPERTIES				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		UA	UB Minimum (EN 14411:2012) UB Minimum (ISO 13006:2012)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		ULA-ULB	Declared value (EN 14411:2012) Testing Method available (ISO 13006:2012)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		UHA-UHB	Declared value (EN 14411:2012) Testing Method available (ISO 13006:2012)
Stain resistance	ISO 10545-14		from Class 5 to Class 3	Declared value (EN 14411:2012) Testing Method available (ISO 13006:2012)

ANTISLIPPERY PROPERTIES				
Slipperiness Resistance: Ramp Method	DIN 51130 B.G.R. 181		R11	from R9 to R13
Slipperiness Resistance: Ramp Method	DIN 51097 DGUV Information 207-006		A+B+C	from A to C
Slipperiness Resistance: B.C.R.	D.M. N.236 14/6/89		$\mu > 0,40$	$\mu > 0,40$
Slipperiness Resistance: Pendulum	BS7976-2:2002 / BSEN13036-4:2011		>36	0 - 24 Slippery; 25 - 35 Moderately slippery; 36+ Low slipping risk
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.