

TECHNICAL FEATURES	
Collection: Metallica not rectified lux	Brand: Viva
Size (cm): 60x240	Thickness (mm): 9,5

Compliant with standard EN 14411:2016 annex G group Bla - GL

Compliant with standard ISO 13006:2018 annex G group Bla - GL

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 (**)				
Not Rectified			Conforme	$\pm 0,9$ mm $\pm 0,6\%$ $\pm 2,0$ mm
Rectified			Conforme	$\pm 0,4$ mm $\pm 0,3\%$ $\pm 1,0$ mm
Thickness				
Not Rectified			Complies with the standards	$\pm 0,5$ mm $\pm 5\%$ $\pm 0,5$ mm
Rectified			Complies with the standards	$\pm 0,5$ mm $\pm 5\%$ $\pm 0,5$ mm
Straightness of sides				
Not Rectified			Conforme	$\pm 0,75$ mm $\pm 0,5\%$ $\pm 1,5$ mm
Rectified			Conforme	$\pm 0,4$ mm $\pm 0,3\%$ $\pm 0,8$ mm
Rectangularity				
Not Rectified			Conforme	$\pm 0,75$ mm $\pm 0,5\%$ $\pm 2,0$ mm
Rectified			Conforme	$\pm 0,4$ mm $\pm 0,3\%$ $\pm 1,5$ mm
Surface Flatness c.c - e.c. - w.				
Not Rectified			Conforme	$\pm 0,75$ mm $\pm 0,5\%$ $\pm 2,0$ mm
Rectified			Conforme	$\pm 0,6$ mm $\pm 0,4\%$ $\pm 1,8$ mm
Surface Quality			Complies with the standards	$\geq 95\%$
PHYSICAL PROPERTIES				
Water absorption	ISO 10545-3	(%)	$\leq 0,5$	$E_b \leq 0,5$ (Individual maximum value 0,6%)
Water absorption	ASTM C373-14	(%)	$\leq 0,5$	
Modulus of rupture	ISO 10545-4	(N/mm ²)	≥ 35	$R \geq 35$ (Individual minimum value 32 N/mm ²)
Breaking Strength	ISO 10545-4	(N)	≥ 1300	≥ 1300 (Thickness $\geq 7,5$ mm) ≥ 700 (Thickness $< 7,5$ mm)
Breaking Strength	ASTM C648-04	(LBF)	> 250	Floor ≥ 250 LBF - Individual minimum value 225 LBF
Resistance to surface abrasion	ISO 10545-7		See attached table	Abrasion class and cycles passed
Linear thermal expansion coefficient	ISO 10545-8	($\times 10^{-6}/^{\circ}\text{C}$)	≤ 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)
Crazing Resistance	ISO 10545-11		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (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)
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		A	GB Minimum (EN 14411:2016) GB Minimum (ISO 13006:2018)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Chemical Resistance	ASTM C650-04		Not Affected	Declared value (ANSI A137.1-2012)
Stain resistance	ISO 10545-14		Class 5	Minimum class 3 (EN 14411:2016) Minimum class 3 (ISO 13006:2018)
Stain resistance	ASTM C1378-04		Not Affected	Declared value (ANSI A137.1-2012)

ANTISLIPPERY PROPERTIES

- * 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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Resistance to surface	abrasion - ISO 10545-7
Dark colours	Class 4 - Visible abrasion after 2100 cycles
Light colours	Class 5 - Visible abrasion after > 12000 cycles