

**MONT BLANC-BEIGE-BLACK/ETNA  
GRAPHITE/JUPITER GRAPHITE 300x300mm**

Characteristics	Test Method	EN 14411 Group Bla	Parameters
<b>DIMENSIONS AND SURFACE QUALITY</b>			
LENGTH AND WIDTH	ISO 10545-2	Max. +/- 0.6% / +/- 2.0 mm	Max. +/-0.7% mm (within a dimension group)
THICKNESS	ISO 10545-2	Max. +/- 5% / +/- 0.5 mm	+/- 5% / +/- 0.5 mm
STRAIGHTNESS OF SIDES	ISO 10545-2	Max. 0.5% / +/- 1.5 mm	Max. +/- 0.6 mm
RECTANGULARITY	ISO 10545-2	Max. 0.5% / +/- 2.0 mm	Max. 0.5% / +/- 2.0 mm
SURFACE FLATNESS (CENTRE AND EDGE)	ISO 10545-2	Max. 0.5% / +/- 2.0 mm	Centre Max. +0.8mm, Max. -0.5mm, 300mm – Max.+0.8mm, Max. - 05mm
SURFACE QUALITY	ISO 10545-2	Min. 95%	Min. 97%
<b>PHYSICAL PROPERTIES</b>			
WATER ABSORPTION	ISO 10545-3	$E_b \leq 0.5\%$	$E_b \leq 0.15\%$
BREAKING STRENGTH	ISO 10545-4	Min. 1300 N	Min. 1500 N
MODULUS OF RUPTURE	ISO 10545-4	Min. 35 N/mm <sup>2</sup>	Min. 45 N/mm <sup>2</sup>
DEEP ABRASION	ISO 10545-6	Max. 175 mm <sup>3</sup>	Max. 120 mm <sup>3</sup>
THERMAL SHOCK RESISTANCE	ISO 10545-9	Pass	Pass
CRAZING RESISTANCE	ISO 10545-11	Pass	Pass
FROST RESISTANCE	ISO 10545-12	Pass	Pass
SLIPPERINESS	DIN51130	Declared Value	Unpolished/Stair Tread R10 Structured R11
BOND STRENGTH	EN 12004:2007	Declared Value	Cementitious Adhesives 0.5 N/mm <sup>2</sup> Dispersion Adhesives $\geq 1$ N/mm <sup>2</sup> Adhesives made of reactive resins $\geq 2$ N/mm <sup>2</sup>
REACTION TO FIRE	-	Class A1 or A1 <sub>fl</sub>	A1 <sub>fl</sub>
<b>CHEMICAL RESISTANCE</b>			
STAINING RESISTANCE	ISO 10545-14	Declared Value	Min. Class 3
RESISTANCE TO HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS	ISO 10545-13	Minimum Class B	Class UA
RESISTANCE TO LOW CONCENTRATION OF ACIDS AND ALKALIS	ISO 10545-13 ISO 10545-15	Declared Value	Class ULA
RESISTANCE TO HIGH CONCENTRATION OF ACIDS AND ALKALIS		Declared Value	Class UHA
LEAD AND CADMIUM RELEASE		Declared Value	Cadium $\leq 0.07$ mg/dm <sup>2</sup> Lead $\leq 0.08$ mg/dm <sup>2</sup>

**SLIP RESISTANCE**

R9	R10	R11	R12	R13
6°-10°	10°-19°	19°-27°	27°-35°	>35°

**Note:** The classification gives the parameter to determine the sliding resistance. The group R9 is less anti-slip, while the group R13 has the maximum effectiveness.