



## TECHNICAL SPECIFICATIONS

### GLAZED PORCELAIN TILES - POLISHED (PGVT)

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP Bla	LAVISH VALUE	TEST METHOD
<b>REGULATORY PROPERTIES</b>			
Deviation in length & width	± 0.5%	± 0.1%	ISO-10545-2
Deviation in thickness	± 5.0%	± 4.0%	ISO-10545-2
Straightness in sides	± 0.5%	± 0.1%	ISO-10545-2
Rectangularity	± 0.5%	± 0.1%	ISO-10545-2
Surface flatness	± 0.5%	± 0.2%	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO 10545-2
Glossiness	> 90 GU	> 92 GU	Gloss meter 60°
<b>STRUCTURAL PROPERTIES</b>			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
<b>MASSIVE MECHANICAL PROPERTIES</b>			
Modulus of rupture	> 35 N/mm <sup>2</sup>	> 40 N/mm <sup>2</sup>	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	≥0.55	>0.55	ISO-10545-5
<b>SURFACE MECHANICAL PROPERTIES</b>			
Surface abrasion resistance	Declared class	Class PEI 4 (2100 revolutions)	EN 154
Surface scratch hardness (Moh's scale)	≥5	≥5	EN 101
<b>THERMO HYGROMRTRIC PROPERTIES</b>			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. 9.0 x 10 <sup>-6</sup>	Max. 6.5 x 10 <sup>-6</sup>	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
<b>CHEMICAL PROPERTIES</b>			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
<b>SEFETY PROPERTIES</b>			
Slip resistance (COF)	Declared value	> 0.40 dry, < 0.40 wet	ISO-10545-17
Reaction to fire	Class A1 or A1 <sub>fl</sub>	Class A1 - A1 <sub>fl</sub>	N.A.



## TECHNICAL SPECIFICATIONS

### GLAZED PORCELAIN TILES - MATT, MATT WITH STRUCTURE, ROCKER (GVT)

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP BIa	LAVISH VALUE	TEST METHOD
<b>REGULATORY PROPERTIES</b>			
Deviation in length & width	± 0.5%	± 0.1%	ISO-10545-2
Deviation in thickness	± 5.0%	± 4.0%	ISO-10545-2
Straightness in sides	± 0.5%	± 0.1%	ISO-10545-2
Rectangularity	± 0.5%	± 0.1%	ISO-10545-2
Surface flatness	± 0.5%	± 0.2%	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO 10545-2
<b>STRUCTURAL PROPERTIES</b>			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
<b>MASSIVE MECHANICAL PROPERTIES</b>			
Modulus of rupture	> 35 N/mm <sup>2</sup>	> 40 N/mm <sup>2</sup>	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	≥0.55	>0.55	ISO-10545-5
<b>SURFACE MECHANICAL PROPERTIES</b>			
Surface abrasion resistance	Declared class	Class PEI 4 (2100 revolutions)	EN 154
Surface scratch hardness (Moh's scale)	≥5	≥5	EN 101
<b>THERMO HYGROMETRIC PROPERTIES</b>			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. $9.0 \times 10^{-6}$	Max. $6.5 \times 10^{-6}$	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
<b>CHEMICAL PROPERTIES</b>			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
<b>SAFETY PROPERTIES</b>			
Slip resistance (COF)	Declared value	> 0.40 dry, > 0.40 wet	ISO-10545-17
Reaction to fire	Class A1 or A1 <sub>fl</sub>	Class A1 - A1 <sub>fl</sub>	N.A.



## TECHNICAL SPECIFICATIONS

### GLAZED PORCELAIN TILES - HIGH GLOSSY (PGVT)

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP Bla	LAVISH VALUE	TEST METHOD
<b>REGULATORY PROPERTIES</b>			
Deviation in length & width	± 0.5%	± 0.1%	ISO-10545-2
Deviation in thickness	± 5.0%	± 4.0%	ISO-10545-2
Straightness in sides	± 0.5%	± 0.1%	ISO-10545-2
Rectangularity	± 0.5%	± 0.1%	ISO-10545-2
Surface flatness	± 0.5%	± 0.2%	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO 10545-2
Colour difference	Unaltered	Unaltered	ISO-10545-16
Glossiness	> 90 GU	> 94 GU	Gloss meter 60°
<b>STRUCTURAL PROPERTIES</b>			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
<b>MASSIVE MECHANICAL PROPERTIES</b>			
Modulus of rupture	> 35 N/mm <sup>2</sup>	> 40 N/mm <sup>2</sup>	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	≥0.55	>0.55	ISO-10545-5
<b>SURFACE MECHANICAL PROPERTIES</b>			
Surface abrasion resistance	Declared class	Class PEI 3	EN 154
Surface scratch hardness (Moh's scale)	≥5	≥5	EN 101
<b>THERMO HYGROMRTRIC PROPERTIES</b>			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. 9.0 x 10 <sup>-6</sup>	Max. 6.5 x 10 <sup>-6</sup>	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
<b>CHEMICAL PROPERTIES</b>			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
<b>SEFETY PROPERTIES</b>			
Slip resistance (COF)	Declared value	> 0.40 dry, < 0.40 wet	ISO-10545-17
Reaction to fire	Class A1 or A1 <sub>fl</sub>	Class A1 - A1 <sub>fl</sub>	N.A.



## TECHNICAL SPECIFICATIONS

### GLAZED PORCELAIN TILES - SUGAR, LAPATO (PGVT)

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP Bla	LAVISH VALUE	TEST METHOD
<b>REGULATORY PROPERTIES</b>			
Deviation in length & width	± 0.5%	± 0.1%	ISO-10545-2
Deviation in thickness	± 5.0%	± 4.0%	ISO-10545-2
Straightness in sides	± 0.5%	± 0.1%	ISO-10545-2
Rectangularity	± 0.5%	± 0.1%	ISO-10545-2
Surface flatness	± 0.5%	± 0.2%	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO 10545-2
<b>STRUCTURAL PROPERTIES</b>			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
<b>MASSIVE MECHANICAL PROPERTIES</b>			
Modulus of rupture	> 35 N/mm <sup>2</sup>	> 40 N/mm <sup>2</sup>	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	≥0.55	>0.55	ISO-10545-5
<b>SURFACE MECHANICAL PROPERTIES</b>			
Surface abrasion resistance	Declared class	Class PEI 4 (2100 revolutions)	EN 154
Surface scratch hardness (Moh's scale)	≥5	≥5	EN 101
<b>THERMO HYGROMETRIC PROPERTIES</b>			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. $9.0 \times 10^{-6}$	Max. $6.5 \times 10^{-6}$	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
<b>CHEMICAL PROPERTIES</b>			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
<b>SAFETY PROPERTIES</b>			
Slip resistance (COF)	Declared value	> 0.40 dry, < 0.40 wet	ISO-10545-17
Reaction to fire	Class A1 or A1 <sub>fl</sub>	Class A1 - A1 <sub>fl</sub>	N.A.