

**SIM PERLATO GREY 800X800X9 MM**

Characteristics	Standard as per ISO 13006:2018/En14411 Gr.Bla	Standard as per IS 15622:2017 Gr.Bla	Method	Mean Value
DEVIATION IN LENGTH AND WIDTH	+/- 0.30% (+/-1.00mm)	+/- 0.10%	ISO 10545-2/ IS 13630-1	+/-0.10% (0.90mm)*
DEVIATION IN THICKNESS	+/-5.0% (+/-0.50mm)	+/-5.0%	ISO 10545-2/ IS 13630-1	+/-4.0%(+/-0.50mm)*
STRAIGHTNESS OF SIDE	+/-0.30% (+/-0.80mm)	+/-0.10%	ISO 10545-2/ IS 13630-1	+/-0.10%(+/-0.70mm)*
RECTANGULARITY	+/-0.30% (+/-1.50mm)	+/-0.10%	ISO 10545-2/ IS 13630-1	+/-0.10%(+/-1.40mm)*
SURFACE FLATNESS CENTRAL CURVATURE	+/-0.40%(+/-1.80mm)	+/-0.50%	ISO 10545-2/ IS 13630-1	+/-0.20%(+/-1.60mm)*
SURFACE FLATNESS EDGE CURVATURE	+/-0.40%(+/-1.80mm)	+/-0.50%	ISO 10545-2/ IS 13630-1	+/-0.20%(+/-1.60mm)*
SURFACE FLATNESS WARPAGE	+/-0.40%(+/-1.80mm)	+/-0.50%	ISO 10545-2/ IS 13630-1	+/-0.10%(+/-1.60mm)*
SURFACE QUALITY	>95% defects free	>95% defects free	ISO 10545-2/ IS 13630-1	>95% defects free
SMALL COLOUR DIFFERENCE (for plain colour)	$\Delta E < 1.00$	N.A.	ISO 10545-16	$\Delta E < 0.80$
GLOSSINESS (POLISHED)	As per Manufacturer	A per Manufacturer	Gloss Meter 60°	$\geq 90$
GLOSSINESS (SATIN/POSH)	As per Manufacturer	A per Manufacturer	Gloss Meter 60°	$15 \leq \text{Gloss Value} \leq 25$
GLOSSINESS (MATT)	As per Manufacturer	A per Manufacturer	Gloss Meter 60°	$7 \leq \text{Gloss Value} \leq 14$
GLOSSINESS (R VALUE)##	As per Manufacturer	A per Manufacturer	Gloss Meter 60°	$\leq 7$
WATER ABSORPTION	$\leq 0.50\%$	$\leq 0.080\%$	ISO 10545-3/ IS 13630-2	$\leq 0.080\%$
BULK DENSITY	As per Manufacturer	Min 2.20 g/cc	ISO 10545-3/ IS 13630-2	$> 2.28 \text{ gm/cc}$
MODULUS OF RUPTURE	Min. 35.0 N/mm <sup>2</sup>	Min. 35.0 N/mm <sup>2</sup>	ISO 10545-4/ IS 13630-6	Min. 37.0 N/mm <sup>2</sup>
BREAKING STRENGTH THICKNESS <7.5	Min. 700.0 N	Min 700.0 N	ISO 10545-4/ IS 13630-6	Min. 900.0 N
BREAKING STRENGTH THICKNESS $\geq 7.5$	Min. 1300.0 N	Min 1300.0 N	ISO 10545-4/ IS 13630-6	Min. 1500.0 N
MOH'S HARDNESS #	As per Manufacturer	Min. 5	BS EN 15771/ IS 13630-12	Polished Min 4**/Satin, Posh & Matt Min. 6
DEEP ABRASION RESISTANCE	Max. 175 mm <sup>3</sup>	Max. 140 mm <sup>3</sup>	ISO 10545-6/ IS 13630-12	Max. 132 mm <sup>3</sup>
MOISTURE EXPANSION	Max. 0.06% (0.6 mm/m)	Max. 0.02 mm/m	ISO 10545-10/ IS 13630-3	Max. 0.02 mm/m
THERMAL EXPANSION (COE) T 100°C	As per Manufacturer	Max. 6.0 x 10-6	ISO 10545-8/ IS 13630-4	Max. 6.0 x 10-6
THERMAL SHOCK RESISTANCE	Min. 10 Cycle	Min. 10 Cycle	ISO10545-9/ IS 13630-5	Min. 10 Cycle
IMPACT RESISTANCE (COR)	Min. 0.55	Min. 0.55	ISO 10545-5/ IS 13630-14	Min. 0.55
FROST RESISTANCE	As per Manufacturer	As per Manufacturer	ISO 10545-12/ IS 13630-10	Frost Proof
RESISTANCE TO STAINING UNGLAZED	As per Manufacturer	Min. Class 2	ISO 10545-14/ IS 13630-8	Min. Class2/Min. Class 2
RESISTANCE TO HOUSEHOLD CHEMICALS & SWIMMING POOL SALTS UNGLAZED	Min Class UB	As per Manufacturer	ISO 10545-13/ IS 13630-7	Min. Class UB/ Min. Class A
RESISTANCE TO LOW CENCENTRATE ACID AND ALKALIS UNGLAZED	As per Manufacturer	As per Manufacturer	ISO 10545-13/ IS 13630-7	Min. Class ULB***/ Min. Class A***
RESISTANCE TO HIGH CONCENTRATE ACID AND ALKALIS UNGLAZED	As per Manufacturer	As per Manufacturer	ISO 10545-13/ IS 13630-7	Min. Class UHB***/ Min. Class A***
SKID RESISTANCE – (DCOF-WET PENDULUM)##	As per Manufacturer	As per Manufacturer	BS 7976-2	Glossy $\geq$ P0,Satin, Posh $\geq$ P1 Matt $\geq$ P2
SLIP RESISTANCE – SATIN/MATT (DCOF-R VALUE)##	As per Manufacturer	As per Manufacturer	DIN 51130	R9 – R11

- \* Whichever is lower
- \*\* With nano technology (Polished Vitrified tiles) Depending on application area (low or high intensity of traffic)
- \*\*\* Exept Hydrofluoric Acid & it's compound
- # Glaze tiles intended for us on floor
- ## As per customer requirement

**SLIP RESISTANCE**


**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.