

TECHNICAL SPECIFICATION

	CHARACTERISTIC		METHOD OF TESTING	UNITS	STANDARD AS PER ISO13006:2018 / EN14411 Gr.Bla	ACCORDI
REGULATORY PROPERTIES	Deviation in Length and Width*		ISO 10545-2	mm	±0.30 % (±1.00 mm)	±1.0 mm (±0.20 %)
	Deviation in Thickness*		ISO 10545-2	mm	±5.0 % (± 0.50 mm)	±0.5 mm (±5.0 %)
	Straightness in Side*		ISO 10545-2	mm	±0.30 % (± 0.80 mm)	±0.8 mm(±0.20 %)
	Rectangularity*		ISO 10545-2	mm	±0.30 % (±1.50 mm)	±1.2 mm(±0.20 %)
	Surface Flatness Central Curvature*		ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Flatness Edge Curvature*		ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Flatness Warpage*		ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)
	Surface Quality		ISO 10545-2	%	>95% defects free	>95% defects free
	Small Colour Difference (For Plain Colour)		ISO 10545-16	ΔE	ΔE <1.00	ΔE <0.80
STRUCTURAL PROPERTIES	Water Absorption		ISO 10545-3	%	≤0.50 %	≤0.080 %
	Bulk Density		ISO 10545-3	gm/cc	As per Manufacturer	> 2.28 gm/cc
MASSIVE MECHANICAL PROPERTIES	Modulus of Rupture ^		ISO 10545-4	N/mm²	Min. 35.0 N/mm²	Min. 50.0 N/mm²
	Breaking Strength Thickness <7.5 mm (5.5 mm)		ISO 10545-4	N	Min 700.0 N	Min 1100.0 N
	Breaking Strength Thickness >7.5 mm (12 mm)		ISO 10545-4	N	Min 1300.0 N	Min 3500.0 N
	Breaking Strength Thickness >7.5 mm (20 mm)		ISO 10545-4	N	Min 1300.0 N	Min 10000.0 N
SURFACE MECHANICAL PROPERTIES	MOH'S Hardness		BS EN 15771	Number	As per Manufacturer	Min 7
	Surface Abrasion Resistance (PEI)		ISO 10545-7	Class	As per Manufacturer	Dark PEI- III (Rev 750) Light PEI-IV (Rev 2100)
THERMAL HYGROMETRIC PROPERTIES	Moisture Expansion		ISO 10545-10	mm/m	Max 0.06% (0.6 mm/m)	Max 0.02 mm/m
	Thermal Expansion(COE) at 100°C		ISO 10545-8	°C ⁻¹	As per Manufacturer	Max. 6.0 x 10-6
	Thermal Shock Resistance		ISO 10545-9	Cycles	Min 10 Cycle	Min 10 Cycle
	Impact Resistance(COR) #		ISO 10545-5	o - 1 value	Min. 0.55	Min 0.55
	Frost Resistance		ISO 10545-12	Cycles	As per Manufacturer	Frost Proof
	Crazing Resistance at 7.5 bar		ISO 10545-11	Cycle	4 Cycles	6 Cycles
BOND STRENGTH / ADHESION PROPERTIES	Cementitious Adhesives		EN 12004: 2017	N/mm²	As per Manufacturer	≥ 1 N/mm²
	Reaction Resin Adhesives		EN 12004: 2017	N/mm²	As per Manufacturer	≥ 2 N/mm²
CHEMICAL PROPERTIES	Resistance to Staining		ISO 10545-14	class	Min. Class 3	Class 5
	Resistance to Household Chemicals & Swimming Pool Salts		ISO 10545-13	class	Min Class GB	Class GA***
	Resistance to Low Concentrate Acid and Alkalies		ISO-10545-13	class	As per Manufacturer	Min Class GLA***
	Resistance to High Concentrate Acid and Alkalies		ISO-10545-13	class	As per Manufacturer	Min Class GHB***
SAFETY & OTHER TECHNICAL PROPERTIES	Skid Resistance -(DCOF-WET PENDULUM)		ASTM E-303	DCOF	As per Manufacturer	P1 (0.20 - 0.40)
	Slip Resistance - Shod R Value		DIN 16165:2023-2	R Value	As per Manufacturer	R 9
	Lead and Cadmium release (Lead Concentration)		ISO-10545-15	mg/dm²	As per Manufacturer	0.01 mg/dm²
	Lead and Cadmium release (Cadmium Concentration)		ISO-10545-15	mg/dm²	As per Manufacturer	0.001 mg/dm²
	Solar Reflection index (SRI)		ASTM E1980, EN 673, & EN 410	–	–	>90
	Color Resistance to UV Light		DIN 51094	–	Report Result	No colour changes
	Reaction to Fire#		EN 13501-1	–	A1	A1
* Whichever is less is applicable for Rectified Size N>=15 CM						
*** Except Hydrofluoric Acid & it's compound						
# Without Fiberglass						
^ MOR teated on sample cut size: 80x80 cm for large slab						
Note: Length and width, orthogonality and straightness are not applicable for the NOT-rectified material.						
Product	Sizes	Actual Sizes	Thickness	Tiles/Box	Coverage Area/Box	
Accordi Collection	160x160cm	1600x1600mm	12mm	1	2.56 Sqm	
	120x300cm	1200x3000mm	5.5+mm	1	3.60 Sqm	
	160x320cm	1600x3200mm	12mm	1	5.12 Sqm	
	160x320cm	1600x3200mm	20mm	1	5.12 Sqm	