



SINTERED FACADE PANELS SPECIFICATIONS (6mm +, 9mm +, 12mm +)

NEXION QUALITY STANDARDS – All tests are carried out by Italian laboratories accredited according to ISO/IEC 17025:2017

Standards according to ISO 13006: Annex G - EN 14411: Annex G. Dry - Pressed Ceramic Tiles.

QUALITY ITEMS	TECHNICAL FEATURE	STANDARD METHOD ISO	UNIT	REQUIREMENTS ISO 13006:2018(E) E _v ≤0,5% GROUP Bla	NEXION Values			
					SIZE < 1200 mm		SIZE ≥ 1200 mm (SLABS)	
					%	mm	%	mm
DIMENSIONS AND SURFACE QUALITY	Width	ISO 10545 - 2	mm	± 0,3%	± 0,1%	± 0,8 mm	± 0,1%	± 1,0 mm
	Length	ISO 10545 - 2	mm	± 0,3%	± 0,1%	± 0,8 mm	± 0,1%	± 1,2 mm
	Thickness	ISO 10545 - 2	mm	± 5,0%	± 4%	± 0,5 mm	± 4%	± 0,5 mm
	Straightness of Side	ISO 10545 - 2	mm	± 0,3%	± 0,1%	± 0,8 mm	± 0,1%	± 1,0 mm
	Rectangularity	ISO 10545 - 2	mm	± 0,3%	± 0,1%	± 1,3 mm	± 0,1%	± 1,5 mm
	Surface Flatness	ISO 10545 - 2	mm	± 0,4%	± 0,1%	± 1,8 mm	± 0,2%	± 3,0 mm
	Surface Quality	ISO 10545 - 2	-	A minimum of 95% of the tiles are to be free from visible defects which can impair the appearance of a major area of tiles	95%			
PHYSICAL PROPERTIES	Weight	Grammage	Kg/m ²	-	6mm+ : 14	9mm+ : 21	12mm+ : 28	
	Water Absorption	ISO 10545 - 3	%	≤ 0,5%, Individual 0,6%	Avg. ≤ 0,08%, Individual 0,2%			
	Modulus of Rupture	ISO 10545 - 4	N/mm ²	Min. 35, Individual Min. 32	Min. 42			
	Breaking Strength	ISO 10545 - 4	N	Not less than 1300	6mm+ : > 1300	9mm+ : > 1800	12mm+ : > 2300	
	Modulus of Elasticity	ISO 10545-4	Gpa	-	Min. 7			
	Moisture Expansion	ISO 10545 - 10	mm/m	-	0,02			
	Surface abrasion	ISO 10545-7	Class	Minimum Class -II Report abrasion class and cycles passed	Class IV (> 2100 cycles)			
	Mohs Hardness of Surface	NA	-	-	≤ 8 (6 for Soft Naturale, 4 for Spazzolato Surface)			
	Co-efficient of Linear Thermal Expansion	ISO 10545 - 8	K ⁻¹	As declared by the Manufacturer	6x10 ⁻⁶ K ⁻¹ max			
	Thermal Shock Resistance	ISO 10545 - 9	-	As declared by the Manufacturer	No damage			
	Crazing Resistance: glazed tiles	ISO 10545 - 11	-	Required	No damage for Min. 10 Cycles			
	Bulk Density	ISO 10545 - 3	g/cc	2,2	2,2			
	Impact Resistance	ISO 10545 - 5	-	As declared by the Manufacturer	0,55			
	Frost Resistance	ISO 10545 - 12	-	As declared by the Manufacturer	No change			
	Small color differences	ISO 10545 - 16	-	Plain colored tiles only where required GL: ΔE < 0,75 / UGL: ΔE < 1,0	No change			
	UV Resistance	DIN 51094	-	As declared by the Manufacturer	No Alteration			
	Fire Resistance	EN - 13501	-	As declared by the Manufacturer	Class A2*			
	Weather Resistance	DIN 22631	Mpa	> 1.9 Mpa (Under Standard Conditions, ≥ 24 Hours)	≥ 2.2 Mpa			
	Weatherproofing Test with UV	ASTM G154	-	As declared by the Manufacturer	1000 Hours			
CHEMICAL PROPERTIES	Resistance to staining	ISO 10545 - 14	Class	Minimum Class 3	Class 5 (Class 4 for Spazzolato)			
	Resistance to household chemicals and swimming pool salts	ISO 10545 - 13	Class	Minimum B	Minimum A			
	Resistance to acids & alkalis	ISO 10545 - 13	Class	As declared by the Manufacturer	Minimum B			

*Sintered Facade Panels are supplied with FR Grade Safety Mesh