

Range Name:
Simplicity

Ref: P+E-SPS-TDS-01
Technical specification of full body unglazed porcelain wall and floor tiles manufactured in accordance with the UNE-EN ISO standard, Bla group.

	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			Bla
Values According To		EN ISO 9001, EN 14411 - Annex G & ISO 13006 - Annex G	
Material			Full Body Porcelain
Colours		Snow, White, Cream, Beige, Dove, Silver, Grey, Carbon, Black	
Finishes		Natural (NR . E NR) , Polished (P), Anti-Slip (ASR)	
Size Formats (mm)		1000x3000, 1000x1000, 500x1000 (NR) ¹ 600x1200 ² , 900x900 ¹ (NR, P) 600x600 (NR, P, ASR ¹ , E NR ³) 300x600 (NR, P, ASR ¹)	
Thickness (mm)		14mm (600x600 11mm (600x1200, 900x900 NR) 10.5mm (600x1200, 900x900 P) 10mm (600x600, 300x600 NR.ASR) 9.5mm (600x600, 300x600 P) 3.5mm (1000x3000, 1000x1000, 500x1000)	
Rectified			Yes
Shade Variation	ANSI A137.1		V1
¹ Available in colours Snow, Cream, Beige, Silver, Carbon and Black ² Available in colours Snow, White, Cream, Silver, Grey and Black ³ Available in colours Snow, Cream, Silver and Grey			
Technical Properties - 300x600/600x600/600x1200/900x900mm			
Dimensions and Surface Quality			
Length and Width	EN ISO 10545-2	Rect. ± 0.3% Max ± 1 mm	Conforms
Side Straightness	EN ISO 10545-2	Rect. ± 0.3% Max ± 0.8 mm	Conforms
Rectangularity	EN ISO 10545-2	Rect. ± 0.3% Max ± 1.5 mm	Conforms
Warpage	EN ISO 10545-2	Rect. ± 0.4% Max ± 1.8 mm	Conforms
Thickness	EN ISO 10545-2	± 5% Max ± 0.5 mm	Conforms
Water Absorption	EN ISO 10545-3	≤ 0.5%	0.03%
Modulus of Rupture	EN ISO 10545-4	≥ 35 N/mm ²	45 N/mm ²
Breaking Strength	EN ISO 10545-4	≥ 1300 N	5700N 600x600 14mm 3500N 900x900, 600x1200 11mm 3200N 900x900, 600x1200 10.5mm 2900N 600x600, 300x600 10mm 2600N 600x600, 300x600 9.5mm
Abrasion Resistance	EN ISO 10545-6	≤ 175mm ³	123 mm ³
Linear Thermal Expansion	EN ISO 10545-8	As indicated	α ≤ 6.5x10-6 °C ⁻¹
Thermal Shock Resistance	EN ISO 10545-9	Required	Resistant
Frost Resistance	EN ISO 10545-12	Required	Resistant
Chemical Resistance Properties			
Resistance against Acids and Alkalis	EN ISO 10545-13	As Indicated	Minimum: LA
Resistance to Household Cleaning Products	EN ISO 10545-13	Minimum: B	Class A
Stain Resistance	EN ISO 10545-14	As Indicated	4-5 Simple Removal

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	Testing To Standard	Average Typical Values	Result
Continued			
Chemical Resistance	Cahier CSTB	As Indicated	3 No Alteration
Slip Resistance			
	DIN EN 16165 Annex B	As Indicated	R11 ASR R10 NR _ E NR
	DIN EN 16165 Annex A	As Indicated	Class C ASR Class B NR _ E NR
	DIN EN 16165 Annex C	As Indicated	≥36 NR _ E NR ASR
	AS/NZS 4586	As Indicated	P3 NR
	ENV 12633	As Indicated	Class 3 ASR Class 2 NR _ E NR
Recommended Joint - Inside			Minimum 2mm
Recommended Joint - Outside		Minimum 3mm (5mm colours Grey and Black)	
Technical Properties - 500x1000/1000x1000/1000x3000mm			
Dimensions and Surface Quality			
Length and Width	EN ISO 10545-2	Rect. ± 0.3% Max ± 1 mm	Conforms
Side Straightness	EN ISO 10545-2	Rect. ± 0.3% Max ± 0.8 mm	Conforms
Rectangularity	EN ISO 10545-2	Rect. ± 0.3% Max ± 1.5 mm	Conforms
Warpage	EN ISO 10545-2	Rect. ± 0.4% Max ± 1.8 mm	Conforms
Thickness	EN ISO 10545-2	± 5% Max ± 0.5 mm	Conforms
Water Absorption	EN ISO 10545-3	≤ 0.5%	0.1% ¹
Modulus of Rupture	EN ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
Abrasion Resistance	EN ISO 10545-6	≤ 175mm ³	Conforms
Linear Thermal Expansion	EN ISO 10545-8	As Indicated	α ≤ 7x10-6 °C ⁻¹
Frost Resistance	EN ISO 10545-12	Required	Resistant
Chemical Resistance ²	EN ISO 10545-13	As Indicated UGL	LA - HA Resistant
Stain Resistance	EN ISO 10545-14	As Indicated UGL	Class 5 Resistant
Slip Resistance			
	DIN EN 16165 Annex B	As Indicated	R9 NR
	ANSI A326.3	DCOF ≥ 0.42	DCOF ≥ 0.42 NR
Recommended Joint - Indoor			Minimum 2mm
Recommended Joint - Outdoor		Minimum 3mm (5mm colours Grey and Black)	
Fire Reaction	EN 13823 EN 9239-1	CPR (UE) 305/2011, 2000/147/E, UNI EN 13501-1	Class A2-s1.d0 (Wall) Class A2fl-s1 (Floor)
Thermal Conductivity	EN 12524		λ = 1,3 W/m °K λ = 0.7 BTU/ft h ° F

¹ Average value referred to ceramic material only.
² Excluding hydrofluoridric acid and its derivatives.

