

Range Name:
Long Ridge Stone

Ref: P+E-LRS-TDS-01
Technical specification of porcelain wall and floor tiles manufactured in accordance with the EN 14411 standard, Bla group.

	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			Bla
Values According To			UNE-EN 14411:2012
Material			Porcelain
Colours			White, Ivory, Grey, Black
Finish			Natural
Size Formats (mm)		72 x 295, 295 x 295, 295 x 592, 300 x 600, 443 x 888, 592 x 592, 600 x 600	
Thickness (mm)			Mixed
Rectified			Yes
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width %	EN ISO 10545-2	± 0.6	± 0.4
Thickness %	EN ISO 10545-2	± 5 / Max 0.5mm	Complies
Straightness %	EN ISO 10545-2	± 0.5 / Max 1.5mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	≤ 0.5	≤ 0.1
Breaking Strength	EN ISO 10545-4	≥ 1300 N	≥ 1500 N
Flexural Tensile Strength	EN ISO 10545-4	≥ 35 N / mm ²	≥ 35 N / mm ²
Resistance to Deep Abrasion	EN ISO 10545-6	≤ 175mm ³	≤ 150mm ³
Surface Abrasion	EN ISO 10545-7	I to V	3
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	2	Class LA (2a)
Resistance to Bases	EN ISO 10545-13	2	Class LA (2a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Minimum 3	4-5
Slip Resistance Properties			
Slip Resistance (Pendulum)	DIN 51130	Declared Value	R10 A + B

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	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			Bla
Values According To			UNE-EN 14411:2012
Material			Porcelain
Colours			White, Ivory, Grey, Black
Finish			Anti-Slip
Size Formats (mm)			292 x 586, 443 x 888, 592 x 592, 600 x 600
Thickness (mm)			Mixed
Rectified			Yes
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width	EN ISO 10545-2	± 0.6	± 0.4
Thickness	EN ISO 10545-2	± 5 / 0.5mm	Complies
Straightness	EN ISO 10545-2	± 0.5 / 2mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	≤ 0.5	≤ 0.1
Breaking Strength	EN ISO 10545-4	≥ 1300 N	≥ 1500 N
Flexural Tensile Strength	EN ISO 10545-4	≥ 35 N / mm²	≥ 35 N / mm²
Resistance to Deep Abrasion	EN ISO 10545-6	≤ 175mm³	≤ 150mm³
Surface Abrasion	EN ISO 10545-7	I to V	3
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	2	Class LA (2a)
Resistance to Bases	EN ISO 10545-13	2	Class LA (2a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Minimum 3	4-5
Slip Resistance Properties			
Slip Resistance (Pendulum)	DIN 51130	Declared Value	R11

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	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			Bla
Values According To			UNE-EN 14411:2012
Material			Porcelain
Colours			White, Ivory, Grey, Black
Finish			Honed
Size Formats (mm)			292 x 586, 295 x 295, 443 x 888, 586 x 586
Thickness (mm)			10
Rectified			Yes
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width	EN ISO 10545-2	± 0.6	± 0.4
Thickness	EN ISO 10545-2	± 5 / 0.5mm	Complies
Straightness	EN ISO 10545-2	± 0.5 / 2mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	≤ 0.5	≤ 0.1
Breaking Strength	EN ISO 10545-4	≥ 1300 N	≥ 1500 N
Flexural Tensile Strength	EN ISO 10545-4	≥ 35 N / mm²	≥ 35 N / mm²
Resistance to Deep Abrasion	EN ISO 10545-6	≤ 175mm³	≤ 150mm³
Surface Abrasion	EN ISO 10545-7	I to V	3
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	2	Class LA (2a)
Resistance to Bases	EN ISO 10545-13	2	Class LA (2a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Minimum 3	4-5
Slip Resistance Properties			
Slip Resistance (Pendulum)	DIN 51130	Declared Value	R9

Range Name:

Long Ridge Stone

Ref: P+E-LRS-TDS-01

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	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			Bla
Values According To			UNE-EN 14411:2012
Material			Porcelain
Colours			White, Ivory, Grey, Black
Finish			Polished
Size Formats (mm)			292 x 586, 443 x 888, 586 x 586
Thickness (mm)			10
Rectified			Yes
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width	EN ISO 10545-2	± 0.6	± 0.4
Thickness	EN ISO 10545-2	± 5 / 0.5mm	Complies
Straightness	EN ISO 10545-2	± 0.5 / 2mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	≤ 0.5	≤ 0.1
Breaking Strength	EN ISO 10545-4	≥ 1300 N	≥ 1500 N
Flexural Tensile Strength	EN ISO 10545-4	≥ 35 N / mm ²	≥ 35 N / mm ²
Resistance to Deep Abrasion	EN ISO 10545-6	≤ 175mm ³	≤ 150mm ³
Surface Abrasion	EN ISO 10545-7	I to V	3
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	2	Class LA (2a)
Resistance to Bases	EN ISO 10545-13	2	Class LA (2a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Minimum 3	4-5
Slip Resistance Properties			
Slip Resistance (Pendulum)	DIN 51130	Declared Value	R9

Range Name:

Long Ridge Stone

Ref: P+E-LRS-TDS-01

Technical specification of ceramic wall and floor tiles manufactured in accordance with the EN 14411 standard, BI b-GL group.

	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			BI b-GL
Values According To			EN 14411
Material			Ceramic
Colours			White, Ivory, Grey, Black
Finish			Gloss
Size Formats (mm)			295 x 592, 300 x 600, 300 x 900
Thickness (mm)			Mixed
Rectified			No
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width %	EN ISO 10545-2	± 0.6 / Max ± 2mm	± 0.4
Thickness %	EN ISO 10545-2	± 5 / Max ± 0.5mm	Complies
Straightness %	EN ISO 10545-2	± 0.5 / Max ± 1.5mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max ± 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	> 0.5 e ≤ 3	≤ 3
Breaking Strength	EN ISO 10545-4	≥ 7.5mm ≥ 1100 < 7.5mm ≥ 700	≥ 7.5mm ≥ 1100 (3) < 7.5mm ≥ 700 (4)
Flexural Tensile Strength	EN ISO 10545-4	≥ 30 N / mm²	≥ 30 N / mm²
Surface Abrasion	EN ISO 10545-7	I to V	I to V (2)
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	1	Class LA (1a)
Resistance to Bases	EN ISO 10545-13	1	Class LA (1a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Min Class 3	Class 4 - 5

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	Testing To Standard	Average Typical Values	Result
Physical Properties			
Group			BI b-GL
Values According To			UNE-EN 14411:2012
Material			Ceramic
Colours			White, Ivory, Grey, Black
Finish			Satin
Size Formats (mm)			295 x 592, 300 x 600, 300 x 900
Thickness (mm)			Mixed
Rectified			No
Shade Variation			V4
Technical Properties			
Dimensions and Surface Quality			
Length / Width %	EN ISO 10545-2	± 0.6 / Max ± 2mm	± 0.4
Thickness %	EN ISO 10545-2	± 5 / Max ± 0.5mm	Complies
Straightness %	EN ISO 10545-2	± 0.5 / Max ± 1.5mm	± 0.3
Orthogonality %	EN ISO 10545-2	± 0.5 / Max ± 2mm	± 0.4
Surface Flatness - Central Curvature %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.15
Surface Flatness - Lateral Curvature %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.15
Surface Flatness - Diagonal Deflection %	EN ISO 10545-2	± 0.5 / Max ± 2mm	- 0.10 / + 0.20
Water Absorption %	EN ISO 10545-3	> 0.5 e ≤ 3	≤ 3
Breaking Strength	EN ISO 10545-4	≥ 7.5mm ≥ 1100 < 7.5mm ≥ 700	≥ 7.5mm ≥ 1100 (3) < 7.5mm ≥ 700 (4)
Flexural Tensile Strength	EN ISO 10545-4	≥ 30 N / mm ²	≥ 30 N / mm ²
Surface Abrasion	EN ISO 10545-7	I to V	I to V (2)
Thermal Shock Resistance	EN ISO 10545-9	Required	Resists
Cracking Resistance	EN ISO 10545-11	Required	Resists
Frost Resistance	EN ISO 10545-12	Required	Resists
Chemical Resistance Properties			
Resistance to Acids	EN ISO 10545-13	1	Class LA (1a)
Resistance to Bases	EN ISO 10545-13	1	Class LA (1a)
Resistance to Household Chemicals	EN ISO 10545-13	≥ Class B	Class A
Resistance to Pool Salts & Additives	EN ISO 10545-13	≥ Class B	Class A
Stain Resistance Properties			
Resistance to Staining	EN ISO 10545-14	Min Class 3	Class 4 - 5

