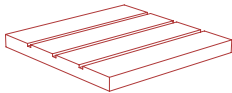


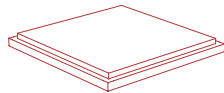
# Technical Standards

## SPECIAL PIECES

### SLOT

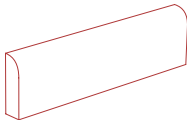


Longitudinal

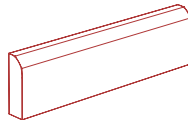


Square slot

### SKIRTING



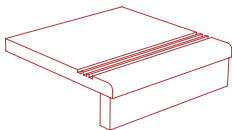
Bull-nose cut



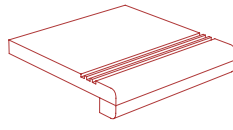
Bevel cut

### STEPS

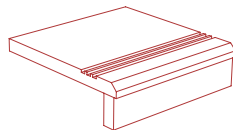
#### Anti-slip surface



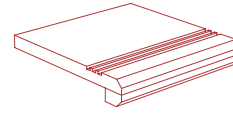
Bull-nose cut



Bull-nose cut

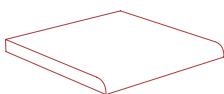


Bevel cut

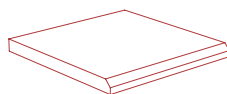


Bevel cut

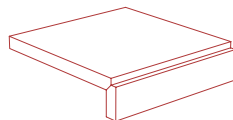
### EDGES



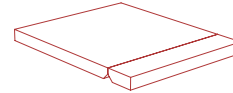
Bull-nose cut



Bevel cut



Bevel joint



Bevel joint





## LOTUS VIETNAM GROUP JSC - LOTUS CERAMICS

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### GLAZED PORCELAIN

PROPERTIES	UNIT	ISO STANDARD REQUIREMENT		RESULT	
Size & Deviation	%	SIDE	The deviation of the average size of each tile from the work size	±0.5	-0.02 - +0.03
			The deviation of the average size for each tile from the work size of the 10 test specimens	±0.4	-0.01 - +0.01
		Thickness		±5	-0.1 - +1.0
Straightness of sides	%	±0.2		-0.03 - +0.06	
Rectangularity	%	±0.5		-0.06 - +0.03	
Surface flatness	mm	Center curvature		±0.4	-0.02 - +0.04
		Warpage		±0.4	-0.02 - +0.05
		Side curvature		±0.4	-0.08 - +0.05
Surface quality	-	A minimum of 95% of the tiles shall be free from chip, crack speek and visible defects that would impair the appearance of major area of		Complied	
Water absorption	%	Average: E ≤0.5		0.3%	
		Single piece: E ≤0.6		0.3%	
Breaking Strength	N	When the thickness ≥7,5mm, the mean value shall not be less than 1300		2183	
Anti-slip	R	9		4	
Resistance to household chemical reagent & swimming	-	No less than Class UB after test		Class GA	
Resistance to low concentration acid or alkali	-	Report the result after test		Class GA	
Stain resistance	-	No less than Class 3 after test		Class GLA	
Certificate of static friction	-	Report the result after test	Wet	0.49	
			Dry	0.57	
Lead release Cadmium release	mg/dm	Report the result after test		No release	
	mg/L			No release	



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### UNGLAZED PORCELAIN

PROPERTIES	UNIT	ISO STANDARD REQUIREMENT		RESULT	
Size & Deviation	%	SIDE	The deviation of the average size of each tile from the work size	±0.5	-0.01 - +0.02
			The deviation of the average size for each tile from the work size of the 10 test specimens	±0.4	-0.02 - +0.01
		Thickness		±5	-0.9 - +0.9
Straightness of sides	%	±0.2		-0.04 - +0.05	
Rectangularity	mm	Length difference of opposite sides ≤2.0		0.5	
		Length difference of diagonal lines ≤2.0		0.3	
Surface flatness	mm	Upward warpage		≤2.0	0.3
		Downward warpage		≤2.0	0.3
Surface quality	-	A minimum of 95% of the tiles shall be free from chip, crack speck and visible defects that would impair the appearance of major area of tiles		Complied	
Water absorption	%	Average: E ≤0.5		0.06%	
		Single piece: E ≤0.6		0.4%-0.08%	
Breaking strength	N	If thickness ≥7.5mm, N ≥1300		2491	
Modulus of Rupture	MPA	Average: ≥35 Single piece: ≥32		59.8 40.7-84.1	
Abrasion resistance	mm	Abrasion CBM ≤175		116	
Glossiness	-	≥55		88-90	
Resistance to household chemical reagent & swimming pool alkali	-	No less than Class UB after test		Class UA	
Thermal shock resistance	-	Report the result after test		No crack	
Resistance to low concentration acid or alkali	-	Report the result after test		Class ULA	
Stain resistance	-	No less than Class 3 after test		Class 5	
Coefficient of linear expansion		Report the result after test		7.1×10 <sup>-6</sup>	
Moisture expansion (mm/m)		Report the result after test		<0.01	
Shock recovery coefficient	-	Report the result after test		0.83	
Certificate of static friction	-	Report the result after test	Wet	0.53	
			Dry	0.59	