

UNGLAZED PORCELAIN

PROPERTIES	UNIT		REQUIREMENTS		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 of 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
Surfate 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		59.8
			Single piece: ≤ 32		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
Moisture expansion (mm/m)			Report the result after test		< 0.01
Shock recovery coefficient	-		Report the result after test		0.83
Cerficiant of static friction	-		Report the result after test	Wet	0.53
				Dry	0.59