


National Center of Supervision and Inspection for Ceramic Sanitary and Plumbing Fixture Test Report

Form No.: QR-CX049-01A/Ed.11.0

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Product Name, Model and Dimension Trademark/Grade	Marble Tiles (Satin Glaze) 600mm×600mm×8mm —/—	Production Date, Production Batch	—/—
		Sample Number	—
Client	FOSHAN SUNVIN CERAMICS CO.,LTD.	Test Classification	Type test
Client Address	W3-5#, A4 HALL INTERNATIONAL CERAMICS EXHIBITION CENTER, JIHUA SI ROAD,FOSHAN, GUANGDONG, CHINA	Sample Quantity / Method of Sample Receipt	30 PCS/ Provided by client
Manufacturer (As the Applicant Claimed)	FOSHAN SUNVIN CERAMICS CO.,LTD.	Receival Date	2019-10-08
Manufacturer Address (As the Applicant Claimed)	W3-5#, A4 HALL INTERNATIONAL CERAMICS EXHIBITION CENTER, JIHUA SI ROAD,FOSHAN, GUANGDONG, CHINA	Sample Receiver	Li Dongping
Sample's State and Characteristic	Pieces (Glazed)	Test Date	2019-10-09 ~ 2019-10-30
Test Basis	GB/T4100-2015 (Annex G) Ceramic Tiles Annex G Dry-pressed ceramic tiles with Low water absorption $E \leq 0.5\%$ Group BIa; GB 6566-2010 Limit of radionuclides in building materials		
Test Result	<p>Except the test items No.14~No.21 are not verdict, the test results comply with the requirement of the standard GB/T 4100-2015 Annex G and the type A requirement for the decorative materials of the standard GB 6566-2010, the test is pass.</p> <p style="text-align: right;">  2019-10-30 </p> <p style="text-align: right;">Any copy of test report is invalid without official test seal</p>		
Remarks	—		

Approved by: 曹 阳

Checked by: 吴 峰

Tested by: 吴 峰

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No.	Test Items	Unit	Technical Requirements			Test Results		Verdict
1	Size and difference	%	Length	The deviation, of the average size for each tile from the work size	±0.6	-0.03~+0.05		Pass
		mm			Maximum ±2.0	-0.2~+0.3		
		mm	Thickness	Worksize≤10.0		8.0		
		%		The deviation, of the average size for each tile from the work size	±5.0	+1.3~+2.2		
		mm			Maximum ±0.5	+0.1~+0.2		
2	Straightness of sides	%	±0.5			-0.04~+0.04		Pass
		mm	Maximum±1.5			-0.21~+0.22		
3	Rectangularity	%	±0.5			-0.04~+0.04		Pass
		mm	Maximum±2.0			-0.25~+0.24		
4	Surface flatness	%	Edge curvature	±0.5		-0.04~+0.05		Pass
		mm		Maximum±2.0		-0.25~+0.28		
		%	Warpage	±0.5		-0.04~+0.03		
		mm		Maximum±2.0		-0.35~+0.28		
		%	Center curvature	±0.5		+0.03~+0.04		
		mm		Maximum±2.0		+0.28~+0.34		
5	Surface quality	——	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles.			Conformed		Pass
6	Water absorption	%	Average maximum 0.5 Individual maximum 0.6			0.06 0.04~0.08		Pass
7	Breaking strength	N	When the thickness≥7.5mm, the mean value shall not be less than 1300			1626		Pass
8	Modulus of rupture	MPa	Average minimum 35 Individual minimum 32			46 43~50		Pass
9	Crazing resistance	——	No crazing or peeling on the glazed surface after the crazing test.			Conformed		Pass
10	Frost resistance	——	No crack or peeling after the frost test			Conformed		Pass
11	Resistance to staining	——	Mininum class 3			Class 5		Pass
12	Resistance to household chemicals & swimming pool salts	——	Minimum GB			Class GA		Pass
13	Static coefficient of friction	——	≥0.50			Dry	0.54~0.56	Pass

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No.	Test Items	Unit	Technical Requirements	Test Results		Verdict
1	Resistance to thermal shock	—	Report the test result after test	No crack		—
2	Resistance to low concentrations of acids and alkalis	—	Manufacturer to state classification	Class GLB		—
3	Surface abrasion	—	Report abrasion class and cycles passed	1500 cycles	Class 3	—
4	Coefficient of linear thermal expansion	℃ ⁻¹	Report the coefficient of linear thermal expansion	6.8×10 ⁻⁶		—
5	Moisture expansion	%	Report the test result after test	<0.01		—
6	Impact resistance	—	Report the average resiliency coefficient	0.85		—
7	Lead release	mg/L	Report the release	<0.5		—
		mg/dm ²		<0.02		
8	Cadmium release	mg/L	Report the release	<0.05		—
		mg/dm ²		<0.002		
9	Internal exposure index I _{Ra}	—	Decorative materials Type A: I _{Ra} ≤1.0	0.5		Type A
			Decorative materials Type B: I _{Ra} ≤1.3			
	External exposure index I _r	—	Decorative materials Type A: I _r ≤1.3	0.7		
			Decorative materials Type B: I _r ≤1.9			
			Decorative materials Type C: I _r ≤2.8			

(The End)