



中国认可
国际互认
检测
TESTING
CNAS L1978



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TEST REPORT

REPORT NO. : 25202005046

NAME OF SAMPLE: UNGLAZED ENAMEL GLASS MOSAIC

APPLICANT: FOSHAN GLOBAL BRIDGE
BUILDING MATERIALS CO.,LTD.

DATE OF TEST: 23/11/2020 – 03/12/2020 (dd/mm/yy)


STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS



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Name of sample	UNGLAZED ENAMEL GLASS MOSAIC	Length of sheet	296mm×296mm×6mm
Tile Type	Mosaic Glass Tile	Length of tile	—
Mark of samples	EY	Aesthetic Classification	—
Quantity of samples	15 Sheets	Description of Samples	The samples are sound, intact and fit for test.
Applicant	FOSHAN GLOBAL BRIDGE BUILDING MATERIALS CO.,LTD.	Address of Applicant	NO.6 BUILDING,HUIZHAN 2ND RING ROAD,HUAXIA CERAMIC EXPOSITION CITY,NANZHUANG TOWN, CHANCHENG DISTRICT, FOSHAN CITY,GUANGDONG, CHINA.
Telephone of applicant	86-757-89985233-820	Fax of Applicant	—
Source of Samples	Samples selected by applicant	Received on	19/11/2020
Test Standard	1.ANSI A 137.2-2019 <i>American National Standard Specifications for Glass Tile</i> 2.GB/T 21114-2007 <i>Chemical analysis of refractory products by XRF—Fused cast bead method</i> 3.EN 15771:2010 <i>Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale</i> 4.ASTM C 895-87 <i>Standard Test Method for Lead and Cadmium Extracted from Glazed Ceramic Tile</i>		
Conclusion of Test	The test results see page 3~5.		
Stamp of Test Unit	 Date: 04/12/2020	Address of Test Unit	Address : 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqi Road, Chancheng District, Foshan, Guangdong, China (528000) Tel: 86-757-83960558 86-757-83827991 Fax: 86-757-83827971 E-mail: fsiqtc@163.com Url: http://www.fsiqtc.com/
Notes	1.All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2.This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3.The results in this report apply to the samples only. 4.The product information are declared by applicant, and laboratory is not responsible for the authenticity.		

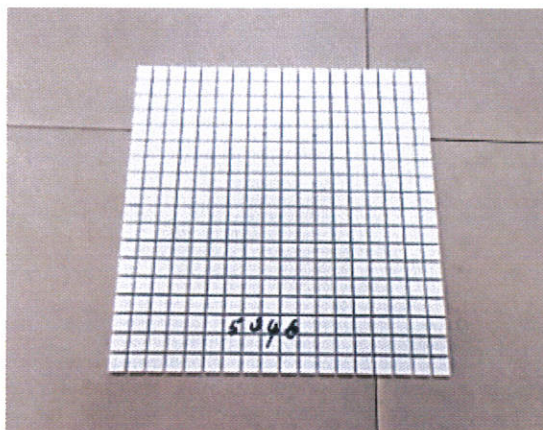
Tested by 杨明 Inspected by 李慧 Approved by 肖景仁

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Photo of Samples



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ANSI A 137.2-2019 American National Standard Specifications for Glass Tile

Clause	Properties	Test Method	Requirements	Results	Verdicts
5.2.3.1	Water Absorption	ASTM C373-18	≤0.5%	0.02%-0.06%	P
5.2.3.3	Compressive Strength, in N/mm ²	7.8	≥17.24	18.1	P
5.2.3.5	Chemical Resistance				
	Acetic acid, 3% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Acetic acid, 10% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Ammonium chloride, 100g/L	ASTM C650-04	As Reported	Not affected	—
	Citric acid solution, 30g/L	ASTM C650-04	As Reported	Not affected	—
	Citric acid solution, 100g/L	ASTM C650-04	As Reported	Not affected	—
	Lactic acid, 5% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Phosphoric acid, 3% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Phosphoric acid, 10% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Sulfamic acid, 30g/L	ASTM C650-04	As Reported	Not affected	—
	Sulfamic acid, 100g/L	ASTM C650-04	As Reported	Not affected	—
	Sodium hypochlorite solution, 20mg/L	ASTM C650-04	As Reported	Not affected	—
	Hydrochloric acid solution, 3% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Hydrochloric acid solution, 18% (v/v)	ASTM C650-04	As Reported	Not affected	—
	Potassium hydroxide, 30g/L	ASTM C650-04	As Reported	Not affected	—
	Potassium hydroxide, 100g/L	ASTM C650-04	As Reported	Not affected	—
	Chemical Resistance Class	6.2.3.8	As Reported	Class A	—
5.2.3.6	Stain Resistance				
	Contrasting Grout	ASTM C1378-04	As Reported	Not affected	—
	Carbon Lamp Black	ASTM C1378-04	As Reported	Not affected	—
	Waterproof ink Black	ASTM C1378-04	As Reported	Not affected	—
	Washable Ink	ASTM C1378-04	As Reported	Not affected	—
	Potassium Permanganate Solution, 1%	ASTM C1378-04	As Reported	Not affected	—
	Methylene Blue Solution, 1%	ASTM C1378-04	As Reported	Not affected	—
	Stain Resistance Class	5.2.3.6	As Reported	Class A	—

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ANSI A 137.2-2019 American National Standard Specifications for Glass Tile					
Clause	Properties	Test Method	Requirements	Results	Verdicts
5.2.3.8	Thermal shock resistance: From (15±5)°C to (71±5)°C, 10 cycles	7.9	Pass	Fully resistant	P
5.2.3.9	Freeze/Thaw Cycling resistance: From (-3±0.25)°C to (16±11)°C, 300 cycles	ASTM C1026-13	Pass	None of tiles show evidence of degradation, chipping or crack after 15 cycles.	—
Possible test case verdicts					
1. P(ass) : Test item does meet the requirement.					
2. F(ail) : Test item does not meet the requirement.					
3. —: Verdict was not carried out.					
4. N/A: Test case does not apply to the test item.					

GB/T 21114-2007 Chemical analysis of refractory products by XRF—Fused cast bead method			
Chemical elements	Test result, in%	Chemical elements	Test result, in%
SiO ₂	73.08	K ₂ O	0.34
Al ₂ O ₃	1.33	Na ₂ O	12.67
Fe ₂ O ₃	0.09	SO ₃	0.24
TiO ₂	0.05	P ₂ O ₅	<0.01
CaO	8.02	MnO	<0.01
MgO	3.77	LOI	0.37

EN 15771:2010 Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale		
Properties	Method	Results
Scratch hardness of surface according to Mohs	EN 15771:2010	5

ASTM C 895-87 Standard Test Method for Lead and Cadmium Extracted from Glazed Ceramic Tile		
Properties	Method	Results
Lead and Cadmium release		
a) Lead release, in mg/dm ²	ASTM C 895-87 (2014)	<0.1
b) Cadmium release, in mg/dm ²	ASTM C 895-87 (2014)	<0.02

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End of Test Report