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TEST REPORT

REPORT NO. : 25202004015

NAME OF SAMPLE: FOIL GLASS MOSAIC

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

DATE OF TEST: 25/09/2020 – 14/10/2020 (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 | FOIL GLASS MOSAIC | Length of sheet | 327mm×327mm×4mm |
| Tile Type | Mosaic Glass Tile | Length of tile | — |
| Mark of samples | FY | 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 | 21/09/2020 |
| 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 |  <p>Date: 15/10/2020</p> | Address of Test Unit | Address : 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi 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. | | |

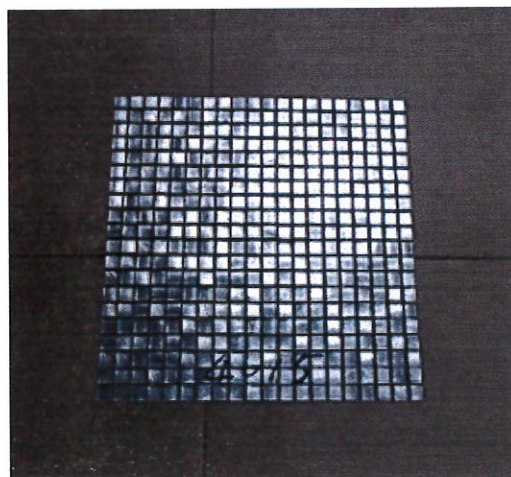
Tested by 杨明 Inspected by 李其 Approved by 肖

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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% | 0.06%~0.10% | 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 | 72.65 | K ₂ O | 1.61 |
| Al ₂ O ₃ | 3.96 | Na ₂ O | 14.93 |
| Fe ₂ O ₃ | 0.07 | SO ₃ | 0.05 |
| TiO ₂ | <0.01 | P ₂ O ₅ | <0.01 |
| CaO | 4.04 | MnO | <0.01 |
| MgO | <0.03 | LOI | 2.68 |

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