

## TEST REPORT

No. : XMCCM160100064

Date : Jan.26, 2016

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YUNFU HONGHAI INVESTMENT CO., LTD  
QINGZHOU AVENUE, LIUDU TOWN, YUNAN ZONE, YUNFU CITY, GUANGDONG PROVINCE

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : QUARTZ STONE  
Place of Origin : YUN FU GUANG DONG  
Manufacturer : HONG HAI  
Test Required : Selected test(s) as requested by applicant  
Date of Receipt : Jan.18, 2016  
Test Period : Jan.18, 2016 to Jan.26, 2016

Test Result(s) : For further details, please refer to the following page(s)

\*\*\*\*\* To be continued\*\*\*\*\*

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. XM Branch Testing Center



Civi Huang  
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Xiamen Branch

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**Summary of test results:**  
(Average of results)

| Test item(s)                            | Test method(s)                            | Test result(s)  |
|---|---|---|
| Absorption by weight                    | ASTM C97/C97M-15                          | 0.04 %  |
| Density                                 |   | 2370 kg/m <sup>3</sup>  |
| Abrasion resistance (polished)          | Refer to ASTM C241/C241M-15 <sup>ε1</sup> | 36  |
| Modulus of rupture                      | Refer to ASTM C99/C99M-15                 | Dry condition: 37.0 MPa   |
|   |   | Wet condition: 42.3 MPa   |
| Flexural strength                       | ASTM C880/C880M-15                        | Wet condition: 35.8 MPa   |
| Compressive strength                    | Refer to ASTM C170/C170M-15a              | Dry condition: 174 MPa  |
|   |   | Wet condition: 169 MPa  |
| Mohs' hardness (polished)               | Refer to EN 101:1991                      | 6   |
| Chemical resistance test(polished)      | ANSI Z124.6-2007                          | Unaffected  |
| Cigarette test(polished)                | ANSI Z124.6-2007                          | After test, there were visible stains remains which can be restorable by clean cheesecloth and water. |
| Heated pan test(polished)               | ANSI Z124.6-2007                          | No visible change after test  |
| Coefficient of linear thermal expansion | ASTM D 4535-13 <sup>ε1</sup>              | 31.4×10 <sup>-6</sup> /°C   |

\*\*\*\*\* To be continued \*\*\*\*\*



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## 1. Absorption by weight and density

### Test Method:

ASTM C97/C97M-15 Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone  
Specimens: 50mm×50mm×20mm, 5pcs, artificial stone with one face polished

### Test Result:

| Specimens identification No.      | 1    | 2    | 3    | 4    | 5    |
|-----------------------------------|------|------|------|------|------|
| Absorption by weight (%)          | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 |
| Mean water absorption (%)         | 0.04 |      |      |      |      |
| Density (kg/m <sup>3</sup> )      | 2370 | 2370 | 2370 | 2370 | 2370 |
| Mean density (kg/m <sup>3</sup> ) | 2370 |      |      |      |      |

## 2. Abrasion resistance

### Test Method:

Refer to ASTM C241/C241M-15<sup>e1</sup> Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic

Specimens: 50mm×50mm×20mm, 3pcs, artificial stone with one face polished

### Test Result:

Testing surface: polished

| Specimens identification No. | 1  | 2  | 3  |
|------------------------------|----|----|----|
| Abrasive hardness            | 35 | 34 | 39 |
| Mean abrasive hardness       | 36 |    |    |

\*\*\*\*\* To be continued\*\*\*\*\*



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### 3. Modulus of rupture

**Test Method:**

Refer to ASTM C99/C99M-15 Standard Test Method for Modulus of Rupture of Dimension Stone

Specimens: 200mm×100mm×20mm, 10pcs, artificial stone with one face polished

**Test Result:**

Dry condition:

|   |      |      |      |      |      |
|---|------|------|------|------|------|
| Specimens identification No.              | 1    | 2    | 3    | 4    | 5    |
| Individual modulus of rupture value (MPa) | 35.7 | 38.9 | 35.8 | 37.9 | 36.5 |
| Mean modulus of rupture value (MPa)       | 37.0 |      |      |      |      |
| Standard deviation (MPa)                  | 1.4  |      |      |      |      |

Wet condition:

|   |      |      |      |      |      |
|---|------|------|------|------|------|
| Specimens identification No.              | 1    | 2    | 3    | 4    | 5    |
| Individual modulus of rupture value (MPa) | 41.5 | 46.5 | 41.9 | 39.2 | 42.6 |
| Mean modulus of rupture value (MPa)       | 42.3 |      |      |      |      |
| Standard deviation (MPa)                  | 2.5  |      |      |      |      |

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## 4. Flexural strength

### Test Method:

ASTM C880/C880M-15 Standard Test Method for Flexural Strength of Dimension Stone

Specimens: 250mm×100mm×20mm, 5pcs, artificial stone with one face polished

### Test Result:

Wet Condition:

| Specimens identification No.             | 1    | 2    | 3    | 4    | 5    |
|--|------|------|------|------|------|
| Individual flexural strength value (MPa) | 35.1 | 34.4 | 37.7 | 35.7 | 36.3 |
| Mean flexural strength value (MPa)       | 35.8 |      |      |      |      |
| Standard deviation(MPa)                  | 1.3  |      |      |      |      |

\*\*\*\*\* To be continued\*\*\*\*\*



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## 5. Compressive strength

### Test Method:

Refer to ASTM C170/C170M-15a Standard Test Method for Compressive Strength of Dimension Stone

Specimens: 50mm×50mm×20mm, 20pcs, artificial stone with one face polished, two samples

50mm×50mm×20mm were overlaid to form one specimen 50mm×50mm×40mm

### Test Result:

Dry Condition:

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| Specimens identification No.                | 1   | 2   | 3   | 4   | 5   |
| Individual compressive strength value (MPa) | 175 | 173 | 174 | 171 | 176 |
| Mean compressive strength value (MPa)       | 174 |     |     |     |     |
| Standard deviation(MPa)                     | 2   |     |     |     |     |

Wet Condition:

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| Specimens identification No.                | 1   | 2   | 3   | 4   | 5   |
| Individual compressive strength value (MPa) | 168 | 171 | 172 | 164 | 171 |
| Mean compressive strength value (MPa)       | 169 |     |     |     |     |
| Standard deviation(MPa)                     | 4   |     |     |     |     |

\*\*\*\*\* To be continued\*\*\*\*\*



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## 6. Mohs' hardness

### Test Method:

Refer to EN 101:1991 Ceramic tiles: determination of scratch hardness of surface according to Mohs

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 3pcs

Testing surface: polished

### Test Result:

|                              |   |   |   |
|------------------------------|---|---|---|
| Specimens identification No. | 1 | 2 | 3 |
| No Scratch                   | 6 | 6 | 6 |
| Scratch                      | 7 | 7 | 7 |
| Mohs' hardness               | 6 |   |   |

Scale:

- 1- Talc
- 2- Gypsum
- 3- Calcite
- 4- Fluorite
- 5- Apatite
- 6- Microcline
- 7- Quartz
- 8- Topaz
- 9- Corundum
- 10- Diamond

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## 7. Chemical resistance test

### **Test Method:**

ANSI Z124.6-2007 Plastic Sinks - 5.5 Chemical resistance test

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 15pcs

Testing surface: polished

### **Test Result:**

| Reagents                                  | Test results |             |
|---|--------------|-------------|
|   | (covered)    | (uncovered) |
| Naphtha                                   | Unaffected   | Unaffected  |
| Ethyl alcohol                             | Unaffected   | Unaffected  |
| Amyl acetate                              | Unaffected   | Unaffected  |
| Commercial household ammonia (10% V/V)    | Unaffected   | Unaffected  |
| Citric acid (10%)                         | Unaffected   | Unaffected  |
| Urea (6%)                                 | Unaffected   | Unaffected  |
| Hydrogen peroxide solution (3%)           | Unaffected   | Unaffected  |
| Concentrated sodium hypochlorite solution | Unaffected   | Unaffected  |
| Toluene                                   | Unaffected   | Unaffected  |
| Ethyl acetate                             | Unaffected   | Unaffected  |
| Lye solution (2% sodium hydroxide)        | Unaffected   | Unaffected  |
| Acetone                                   | Unaffected   | Unaffected  |
| Trisodium phosphate (5%)                  | Unaffected   | Unaffected  |
| Vinegar                                   | Unaffected   | Unaffected  |
| Pine oil                                  | Unaffected   | Unaffected  |

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## 8. Cigarette test

### **Test Method:**

ANSI Z124.6-2007 Plastic Sinks - 5.4 Cigarette test

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 2pcs

Testing surface: polished

### **Test Result:**

After test, there were visible stains and can be restorable by clean cheesecloth and water.

## 9. Heated pan test

### **Test Method:**

ANSI Z124.6-2007 Plastic Sinks - 5.6 Heated pan test

Specimens: artificial stone with one face polished, 250mm×250mm×20mm, 3pcs

Testing surface: polished

### **Test Result:**

After test, all the three samples were no visible blister, crazing, or color change in the surface.

## 10. Linear thermal expansion coefficient

### **Test Method:**

ASTM D 4535-13<sup>e1</sup> Standard Test Methods for Measurement of Thermal Expansion of Rock Using Dilatometer (Test method A Schedule B)

Specimens: 50mm×10mm×10mm, 3pcs, artificial stone with one face polished

### **Test Result:**

The range of the temperature: room temperature to 100 °C

Heating rate: 1°C/min

| Specimens identification NO.            | 1    | 2    | 3    |
|---|------|------|------|
| Individual value (10 <sup>-6</sup> /°C) | 29.2 | 33.4 | 31.6 |
| Mean value (10 <sup>-6</sup> /°C)       | 31.4 |      |      |

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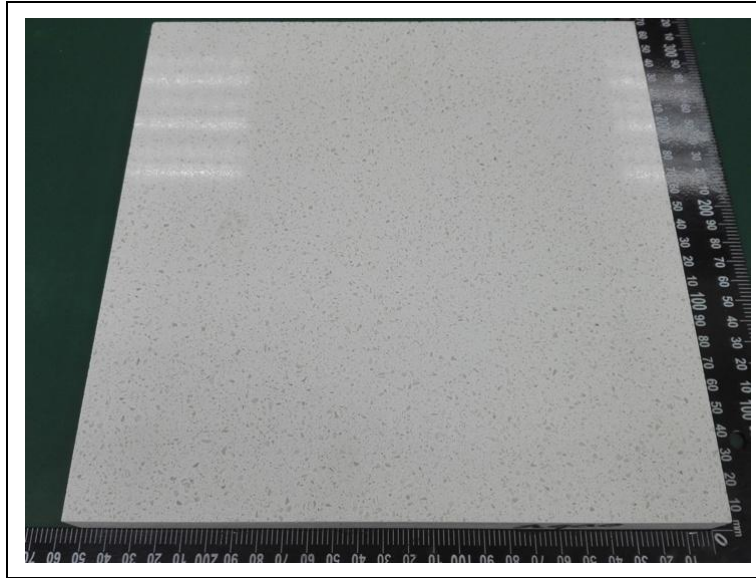
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Specimen photograph:



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SGS Standards Technical Services Co., Ltd.  
Xiamen Branch

No.31 Xianghong Road, XiangAn Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.sgsgroup.com.cn  
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)