

CUSTOMER NAME: XIAMEN SUPERIOR STONE CO., LTD  
ADDRESS: RM 502, NO.500 XINAO RD, JINHAI ST, XIANGAN DISTCIRT,  
XIAMEN CHINA

Sample Name : CARRARA  
Material : DOLOMITE STONE  
Spec. : 100\*100\*20MM  
Manufacturer : XIAMEN SUPERIOR STONE CO., LTD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

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Test Required : Selected test(s) as requested by applicant  
Date of Receipt : May 29, 2023  
Testing Start Date : May 29, 2023  
Testing End Date : Jun 08, 2023  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

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

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



Civi Huang Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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# TEST REPORT

No. : XMHL230500313SD

Date : Jun 08,2023

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## Summary of test results:

(Average value)

No.	Test items	Test methods	Test results	Page
1	Flexural strength	EN 14617-2:2016	53.3 MPa	3
2	Abrasion resistance (polished)	EN 14617-4:2012	28.9 mm	3
3	Impact resistance	EN 14617-9:2005	7.34 J	4
4	Stain resistance (polished)	EN 14617-10:2012 Annex A	No obvious effects	5
5	Compressive strength	EN 14617-15:2005	202 MPa	5

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



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## 1. Flexural strength

### Test Method:

EN 14617-2:2016 Agglomerated stone - Test methods - Part 2: Determination of flexural strength (bending)

Specimens: Agglomerated stone, 200mm×50mm×19mm, 10pcs, one face polished.

Loading rate: (0.25±0.05)MPa/s

### Test Result:

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Flexural strength (MPa)	55.9	54.7	54.3	58.7	55.6	54.1	58.0	51.5	58.5	52.0
Mean value (MPa)	73.3									
Standard deviation (MPa)	5.7									
Lower expected value (MPa)	51.7									

## 2. Abrasion resistance

### Test Method:

EN 14617-4:2012 Agglomerated stone - Test methods - Part 4: Determination of abrasion resistance

Specimens: Agglomerated stone, 150mm×100mm×19mm, 6pcs, one face polished.

Testing surface: polished

### Test Result:

Specimens identification No.	1	2	3	4	5	6
The length of the groove (mm)	29.5	29.0	28.5	29.0	28.5	29.0
Mean value (mm)	28.9					

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



3. Impact resistance

**Test Method:**

EN 14617-9:2005 Agglomerated stone - Test methods - Part 9: Determination of impact resistance

Specimens: Agglomerated stone, 200mm×200mm×19mm, 4pcs, one face polished.

Testing surface: polished

**Test Result:**

Specimens identification No.	1	2	3	4
Drop height, <i>h</i> (m)	0.70	0.70	0.75	0.70
Fracture work, <i>L</i> (J)	7.21	7.21	7.72	7.21
Average value (J)	7.34			

Note:

The fracture work *L* in joule is expressed by the formula

$$L=M \times h \times g$$

Where

*M* is the sphere mass, 1.050kg,

*h* is the drop height in meters of the sphere which causes the sample to break,

*g* is the gravity acceleration equal to 9.806m/s<sup>2</sup>.

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



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#### 4. Stain resistance test

**Test Method:**

EN 14617-10:2012 Agglomerated stone - Test methods - Part 10: Determination of chemical resistance - Annex A

Specimens: Agglomerated stone, 100mm×100mm×19mm, 2pcs, one face polished.

Testing surface: polished

**Test Result:**

Reagents	Contact time	Test results
Red wine	1 hour	No obvious effect
	24 hours	No obvious effect

#### 5. Compressive strength

**Test Method:**

EN 14617-15:2005 Agglomerated stone - Test methods - Part 15: Determination of compressive strength

Specimens: Agglomerated stone, 50mm×50mm×19mm, 6pcs, one face polished

Loading rate: (1.0±0.5)MPa/s

**Test Result:**

Specimens identification No.	1	2	3	4	5	6
Compressive strength (MPa)	204	209	194	202	204	199
Mean value (MPa)	202					
Standard deviation (MPa)	6					
Lower expected value (MPa)	194					

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



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Specimen photograph:



SGS authenticate the photo on original report only  
\*\*\*\*\*End of report\*\*\*\*\*



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