TEST REPORT

No. : XMHL230500313SD
Date : Jun 08,2023

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

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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, *h* (m)	0.70	0.70	0.75	0.70
Fracture work, *L* (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^2.

******** 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 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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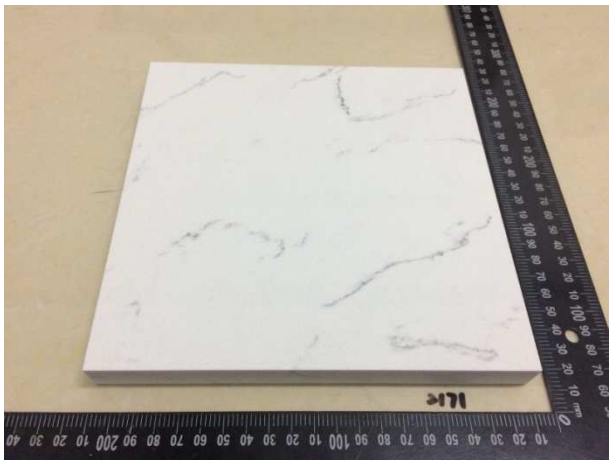
Specimen photograph:



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

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