Sample Description	: QUARTZ SLAB
Item No.	: GC01
Manufacturer	: CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No.	: XMIN2410002071CM01_EN
Sample Receiving Date	: Oct 19, 2024
Test Performing Date	: Oct 23, 2024 to Nov 11, 2024
Test Performed	: Selected test(s) as requested by applicant
Test Result(s)	: For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Scan to see the report
SDHL241001991101HI-1
Verification:
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Peter Zhao
Authorized Signatory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Mohs' Hardness	JC/T 908-2013(2017) Section 7.4 and Annex A	7	Pass
2	Water Absorption	JC/T 908-2013(2017) Section 7.6 and GB/T 3810.3-2016	0.01%	Pass
3	Falling Ball Impact	JC/T 908-2013(2017) Section 7.7.2	1500 mm No fracture, no crack.	Pass
4	Flexural Strength	JC/T 908-2013(2017) Section 7.8.2 and GB/T 3810.4-2016	49 MPa	Pass
5	Compressive Strength	JC/T 908-2013(2017) Section 7.9 and GB/T 9966.1-2020	Dry: 267 MPa Wet: 263 MPa	Pass
6	Stain Resistance	JC/T 908-2013(2017) Section 7.15 and Annex E	See result	Pass
7	Cigarette Burning	JC/T 908-2013 (2017) Section 7.16.1	See result	Pass
8	Chemical Resistance	JC/T 908-2013(2017) Section 7.17 and Annex F	See result	Pass
9	Heat Resistance	JC/T 908-2013(2017) Section 7.18	See result	Pass
10	High Temperature Resistance	JC/T 908-2013(2017) Section 7.19 and Annex G	See result	Pass
11	Radioactivity	JC/T 908-2013(2017) Section 7.14 and GB 6566-2010	Internal exposure index I_{Ra}: <0.1 External exposure index I_{γ}: <0.1	Pass

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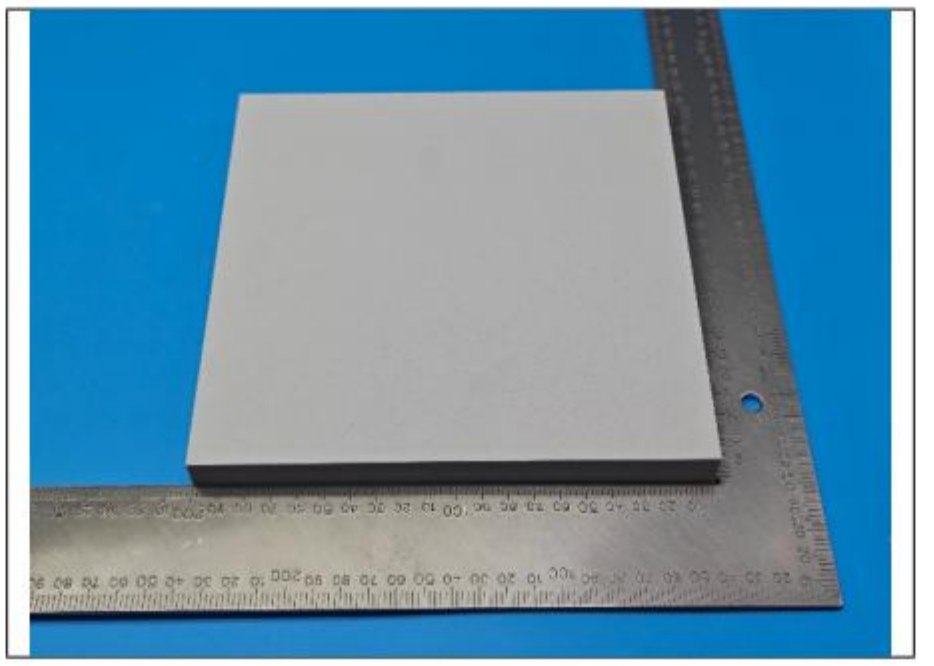
Note: Pass : Meet the requirements;

Fail : Does not meet the requirements;

N/A : Not Apply to the judgment.

Original Sample Photo:



1. Test Item: Mohs' Hardness

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.4 and Annex A

Test Condition:

Specimen:100mm×100mm×20mm, 3pcs

Test Result:

Mohs' hardness: 7

JC/T 908-2013(2017) requirement for quartzite: Mohs' hardness ≥5

Conclusion: Pass

2. Test Item: Water Absorption

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.6 and GB/T 3810.3-2016

Test Condition:

Specimen: 200mm×200mm×20mm, 5pcs

Condition: (55±5)℃,48h→Vacuum in (10±1)kPa, 30min→immersed in water for 15min

Test Result:

0.01%

JC/T 908-2013(2017) requirement for quartzite: Water absorption <0.2%

Conclusion: Pass

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3. Test Item: Falling Ball Impact

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.7.2

Test Condition:

Specimen: 300mm×300mm×20mm, 1pc

Ball weight: 450g

Test Result:

1500 mm, No fracture, no crack.

JC/T 908-2013(2017) requirement for quartzite:

Impact height is not less than 1200mm for category A products and 800mm for category B products. No crack after test.

Conclusion: Pass (category A products)

4. Test Item: Flexural Strength

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.8.2 and GB/T 3810.4-2016

Test Condition:

Specimen: 300mm×300mm×20mm, 7pcs

Span: 280mm

Test Result:

49 MPa

JC/T 908-2013(2017) requirement for quartzite: Flexural strength >35MPa

Conclusion: Pass

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5. Test Item: Compressive Strength

Sample Description: See photo

Test Method: Refer to JC/T 908-2013(2017) Section 7.9 and GB/T 9966.1-2020

Test Condition:

Specimen: 50mm×50mm×20mm, 10pcs

Test Result:

Dry: 267 MPa

Wet: 263 MPa

JC/T 908-2013(2017) requirement for quartzite and client's requirement: Compressive strength ≥150MPa

Conclusion: Pass

6. Test Item: Stain Resistance

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.15 and Annex E

Test Condition:

Specimen: 100mm×100mm×20mm, 11pcs

Reagents: See table 1

Contact time: 16h

Test Result:

Total rating: 44

Maximum depth of material removed to eliminate the stain: 0.01mm

JC/T 908-2013(2017) requirement for quartzite:

When quartzite works as table-board, total rating is not more than 64 and Maximum depth of material removed to eliminate the stain is not more than 0.12mm. When quartzite does not work as table-board, stain resistance is agreed by both parties of supply and demand.

Conclusion: Pass

Table 1: Reagents used in stain resistance test

Soy sauce	Strawberry juice
Black liquid shoe polish	Lipstick (contrasting color)
Blue washable ink	Hair dye (contrasting color)
Gentian violet solution	Mercurochrome solution (2% water solution)
Apple juice	Wet tea bag
Edible rice vinegar	-

7. Test Item: Cigarette Burning

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.16.1

Test Condition:

Specimen: 100mm×100mm×20mm

Three brands of cigarettes: Seven Wolves, Mount Huangshan and Furong King

Contact time: (120±2) s

Test Result:

There was no flaming or glowing on the surface during and after contact with the lighted cigarettes. The surface of the specimen showed visible stain, which can be wiped out by sanding with 400 grit sandpaper and water.

JC 908-2013(2017) requirement and client's requirement:

There shall be no flaming or glowing on the surface during and after contact with the lighted cigarettes. Any resulted damage shall not impair the serviceability of the product and could be restored, using abrasive and polishing compound to approximately original finish.

Conclusion: Pass

8.Test Item: Chemical Resistance

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.17 and Annex F

Test Condition:

Specimen: 100mm×100mm×20mm

Reagents: See table 2

Contact time: 16h

Test Result:

No visible damage on the specimen surface.

JC/T 908-2013(2017) requirement for quartzite:

When quartzite works as table-board, there shall be no visible damage on the specimen surface except for minor surface changes which could be removed by slightly sanding with 600 grit sandpaper. Any resulted damage shall not impair the serviceability of the product, and surface could be easily restored to approximately original finish. When quartzite does not work as table-board, Chemical resistance is agreed by both parties of supply and demand.

Conclusion: Pass

Table 2 Liquid reagents used in chemical resistance test

Ethyl alcohol	Toluene
Amyl acetate	Ethyl acetate
Household ammonia solution, 10%(v/v)	Lye solution, (1% to 2%)
Citric acid, 10%(m/m)	Acetone
Urea, 6.0%(m/m)	Trisodium phosphate, 5%(m/m)
Hydrogen peroxide solution, 3%	Vinegar
Concentrated sodium hypochlorite solution	Pine oil

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9. Test Item: Heat Resistance

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.18

Test Condition:

Specimen: 250mm×250mm×20mm

Test procedure: ① Aluminum disk heated for 15±0.5min at 185℃ → ② Place the disk on the test area of the specimen and remain for 10±0.5min → ③ Remove the disk →Repeat①②③ for two more times →④Room ambient temperature, 4h

Test Result:

There is no cracking, crazing or blistering on the surface.

JC/T 908-2013(2017) requirement for quartzite:

When quartzite works as table-board, there shall be no cracking, crazing or blistering on the surface. Any discoloration shall be removable using abrasive and polishing compounds, and surface could be restored to approximately original finish without affecting the serviceability. When quartzite does not work as table-board, heating resistance is agreed by both parties of supply and demand.

Conclusion: Pass

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10. Test Item: High Temperature Resistance

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.19 and Annex G

Test Condition:

Specimen: 200mm×200mm×20mm

Testing procedure: Heat the wax in the vessel to 185℃ → Cool the wax to (180±1)℃ → Place the vessel on the specimen for 20min → Remove the vessel → Room temperature, 24h.

Test Result:

No effect – no change in color or surface finish.

Note: The specimen shall be examined for blistering, crazing, cracking and whitening. The resistance to high temperature shall be reported as one of the following:

a. No effect – no change in color or surface finish.

b. Slight effect – a change in color or surface finish only visible from some special angles and directions.

c. Moderate effect – a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen.

d. Severe effect – a change in color or surface finish which obviously and remarkably alters the original condition of the specimen, including cracking, crazing or blistering.

JC/T 908-2013(2017) requirement for quartzite:

When quartzite works as table-board, there shall be no cracking, crazing, blistering or other surface defects. Surface defects shall be easily removed by using abrasive and polishing compounds, and the surface could be restored to approximately original finish without affecting the serviceability. When quartzite does not work as table-board, high temperature resistance is agreed by both parties of supply and demand.

Conclusion: Pass

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11. Test Item: Radioactivity

Sample Description: See photo

Test Method: JC/T 908-2013(2017) Section 7.14 and GB 6566-2010

Test Condition:

Specimen: Powder, made from original sample

Test Result:

Test items	Requirement in GB 6566-2010 (Class A)	Test Results
Internal exposure index I_{Ra}	≤1.0	<0.1
External exposure index I_{γ}	≤1.3	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	4.0
Th-232		4.2
K-40		1.9

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials.

JC/T 908-2013(2017) requirement for quartzite:

Comply with requirements of GB 6566-2010 Class A decorative materials.

Conclusion: Pass

Remark:

1. This test was subcontracted to SGS-CSTC Standards Technical Services Co.,Ltd. Xiamen Branch.
2. The report is the English version of Chinese test report SDHL241001991101HI-1_CN. In case of any discrepancy between Chinese version and English version, the Chinese version shall prevail for the test with reference to the standard of People's Republic of china, and English version shall prevail for the test with reference to other standards.
3. This test report is to supersede No. SDHL241001991101HI test report which was issued on Nov 11, 2024. And the original test reports (paper and electronic) are invalid.

End of Report

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