

## TEST REPORT

No. : XMIN2308000854CM01\_EN

Date : 2023-09-05

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CUSTOMER NAME: NAN'AN AOLI STONE CO,LTD  
ADDRESS: NANLIAN INDUSTRIAL ZONE,GUANQIAOTOWM,NANAN CITY

Sample Name : INORGANIC TERRAZZO  
Product Specification : 150\*150  
Manufacturer : NAN'AN AOLI STONE CO,LTD  
Material : Concerte products

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.

\*\*\*\*\*

Date of Receipt : 2023-08-21  
Testing Period : 2023-08-21 ~ 2023-09-04  
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)

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

Bryan Hong  
Authorized signatory



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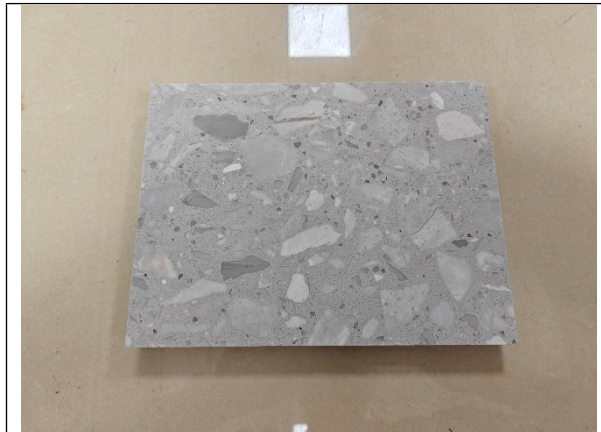
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### Summary of Results:

No.	Test Item		Test Method	Result
1	Slip Resistance		EN 13748-1:2004 Clause 5.7	SRV "wet": 19
2	Reaction to Fire		EN 13748-1:2004 Clause 4.2.7	Class A1 <sub>f</sub>
3	Abrasion Resistance		EN 13748-1:2004 Clause 5.6.1	23.0mm
4	Thermal Conductivity		EN 13748-1:2004 Clause 4.2.8 & EN 13369:2001	See result
5	Mechanical Strength	Breaking Strength	EN 13748-1:2004 Clause 5.5	12.4MPa
		Breaking Load		4.8kN
6	Water Absorption		EN 13748-1:2004 Clause 5.8	1.97 % 0.08 g/cm <sup>2</sup>

### Original Sample Photo:



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1. Test Item: Slip Resistance

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 5.7

Test Condition:

Specimen: 200mm×150mm, 5pcs

Type of slider: Slider 57

Test surface: polished

Test Result:

Specimen No.	1	2	3	4	5
Mean pendulum value (Wet condition)	22	18	18	18	21
Slip resistance value (SRV "wet")	19				

2. Test Item: Reaction to Fire

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 4.2.7

Test Condition: Terrazzo tiles are considered to be reaction to fire Class A1<sub>fl</sub> without testing, according to EC Decision 96/603/EEC, as amended.

Result:

Class A1<sub>fl</sub>



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### 3. Test Item: Abrasion Resistance

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 5.6.1

Test Condition:

Specimen: 200mm×150mm, 6pcs

Load: 14±0.01kg

Revolutions: 75

Testing surface: polished

Test Result:

Specimen No.	1	2	3
The length of the groove (mm)	23.0	22.7	23.4
Mean value (mm)	23.0		

### 4. Test Item: Thermal Conductivity

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 4.2.8 & EN 13369:2001

Test Condition:

Specimen: 100mm×100mm, 3pcs

According to EN 13748-1:2004 Clause 4.2.8: If terrazzo tiles for internal use are intended to contribute to the thermal performance of an element, the manufacturer shall declare their thermal properties using data given in Table N.2 of EN 13369:2001.

Result:

When the density of material is about 2400 kg/m<sup>3</sup>, then the result is:

P=50%, Thermal conductivity  $\lambda_{10,dry}$ : 1.52 [W/(m·k)]

P=90%, Thermal conductivity  $\lambda_{10,dry}$ : 1.72 [W/(m·k)]

Note: P is fractile of population;  $\lambda_{10,dry}$  is thermal conductivity in dry state at an average temperature of 10°C.



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### 5. Test Item: Mechanical Strength (Breaking Strength and Breaking Load)

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 5.5

Test Condition:

Specimen: 300mm×300mm, 4pcs

Loading rate: 83.3N/s

Test Result:

Breaking Strength:

Specimen No.	1	2	3	4
Breaking strength (MPa)	11.8	12.6	12.2	12.8
Average value (MPa)	12.4			

Breaking Load:

Specimen No.	1	2	3	4
Breaking load (kN)	4.6	5.0	4.8	5.0
Average value (kN)	4.8			



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6.Test Item: Water Absorption

Sample Description: See photo

Test Method: EN 13748-1:2004 Clause 5.8

Test Condition:

Specimen: 100mm×100mm, 3pcs

Test Result:

Specimen No.	1	2	3
Water absorption (%)	1.98	1.89	2.05
Arithmetic mean of the water absorption (%)	1.97		
24 h capillary water absorption (g/cm <sup>2</sup> )	0.08	0.07	0.08
Average capillary water absorption (g/cm <sup>2</sup> )	0.08		

\*\*\*\*\*End of report\*\*\*\*\*



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