TEST REPORT

No. : GZMR250200377201
Date : Mar 03, 2025

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GZMR250200377201
Verification:
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CUSTOMER NAME: NANTONG MACHS COMPOSITE MATERIAL CO.LTD
ADDRESS: NO.288 HUANGHAI ROAD,NANTONG,JIANGSU,China

Sample Name : FRP GRATING
Product specification : 19×19×25mm
Others : Sample1

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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SGS Ref. No. : SUZIN2412003486PL01
Date of Receipt : Feb 18, 2025
Testing Start Date : Feb 18, 2025
Testing End Date : Mar 03, 2025
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. Guangzhou Branch

Cathy Peng
Authorized signatory

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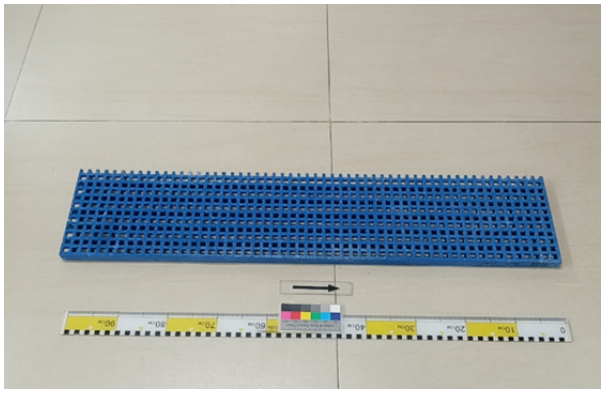
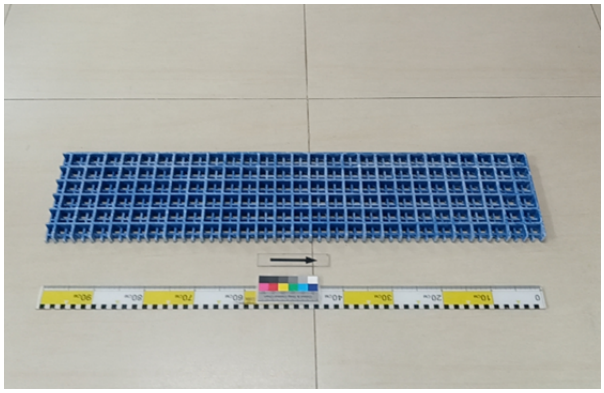
Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Determination of the Burning Behavior Using a Radiant Heat Source	AS ISO 9239.1-2003(2016)	See result	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo:

	
Original Sample-Sample A	Original Sample-Sample A

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Test item: Determination of the Burning Behavior Using a Radiant Heat Source

Sample Description: Finished product

Test Method: AS ISO 9239.1-2003(2016)

Test condition:

Specimen: 1050mm× 230mm × 26.5mm

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m^3, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Test result:

Specimen No.	1	2	3	Average
The flame-spread distance at 10min, mm	10	10	10	10
The flame-spread distance at 20min, mm	10	10	10	10
The flame-spread distance at 30min, mm	10	10	10	10
Heat flux at 10 min (HF-10), kW/m^2	⩾11	⩾11	⩾11	⩾11
Heat flux at 20 min (HF-20), kW/m^2	⩾11	⩾11	⩾11	⩾11
Heat flux at 30 min (HF-30), kW/m^2	⩾11	⩾11	⩾11	⩾11
Critical heat flux (CHF), kW/m^2	⩾11	⩾11	⩾11	⩾11
Integrated smoke value, %·min	96.31	90.26	92.43	93.0

Client's requirement:

1. CHF Value⩾4.5kW/m^2
2. HF-30 Value I⩾9.5kW/m^2
3. Smoke Value ⩽450%·min

Conclusion: Pass

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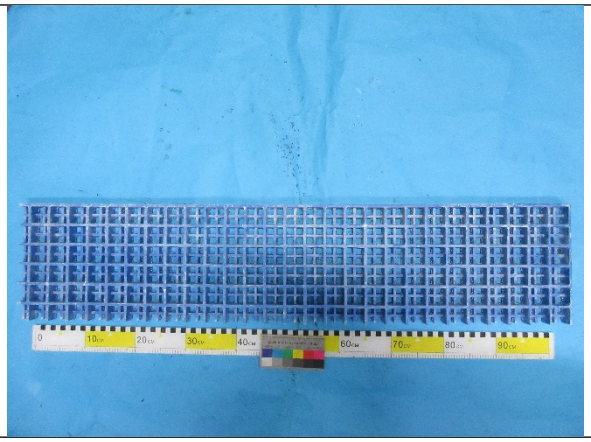
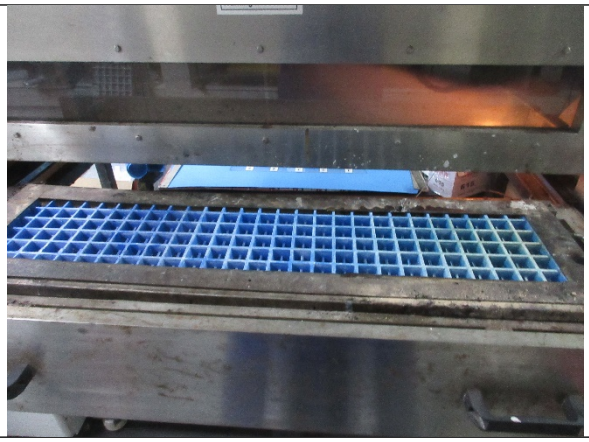
Note:

1. Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m^2.
2. Observations of the burning characteristics: Charring.
3. The non granular surface was faced to the flame.

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Test Photo:

	
Before Test-Sample A	After Test-Sample A

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Flooring Radiant Panel Tester	FPR	GZMR-PL-E227	2024-04-15	2025-04-14

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