

SGS

中国认可
国际互认
检测
TESTING
CNAS L4743

Test Report

No. AJFS2101000087FF

Date: JAN.14, 2021

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The following sample(s) information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Sample Description: MOLDED GRATING, 38mm THICK, 38x38mm MESH, ISO RESIN

Color: YELLOW

Thickness: 38mm

Style/Item No.: 38X38mm MESH

Composition: FRP

Test Requested:

BS 476 Part 7:1997 Incorporating Corrigendum No.1:2014 "Fire tests on building materials and structures Part 7: Method of test to determine the classification of the surface spread of flame of products".

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : JAN.07, 2021

Test Performing Date : JAN.07, 2021 TO JAN.11, 2021

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou
Lab Manager



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SGS-CSTC Co., Ltd.
Anji Branch Fire Technology Service

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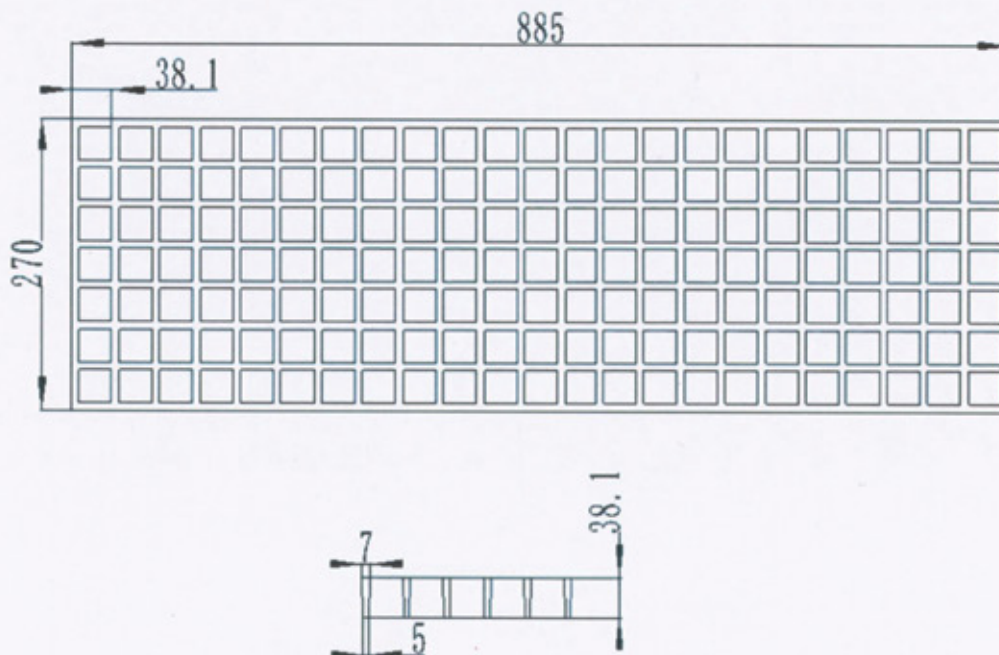
I. Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part 7:1997 *Incorporating Corrigendum No.1:2014* "Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products".

II. Sample details

Sample description	Molded Grating
Thickness	About 3.6mm
Color	Yellow
Specimen size	880mm×270mm

* Specimen Surface characteristics deviate from standard requirements.



To be continued....



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III. Test details

Conditioning of specimens:	Prior to testing, the sample was conditioned to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 10 %, and maintained in this condition until required for testing.
Exposed Face:	One surface

Irradiance along horizontal reference line on the calibration board

Distance along reference line from inside edge of specimen holder	Irradiance kW/m ²		
mm	Specified	Min.	Max.
75	32.5	32.0	33.0
225	21.0	20.5	21.5
375	14.5	14.0	15.0
525	10.0	9.5	10.5
675	7.0	6.5	7.5
825	5.0	4.5	5.5

To be continued....



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IV. Test results

SPECIMEN No.	1	2	3	4	5	6
Distance (mm)	Time to travel to indicated distance (minutes:seconds)					
75	--	--	--	--	--	--
165	--	--	--	--	--	--
190	--	--	--	--	--	--
215	--	--	--	--	--	--
240	--	--	--	--	--	--
265	--	--	--	--	--	--
290	--	--	--	--	--	--
375	--	--	--	--	--	--
455	--	--	--	--	--	--
500	--	--	--	--	--	--
525	--	--	--	--	--	--
600	--	--	--	--	--	--
675	--	--	--	--	--	--
710	--	--	--	--	--	--
750	--	--	--	--	--	--
785	--	--	--	--	--	--
825	--	--	--	--	--	--
Maximum distance traveled at 1.5 minutes (mm)	--	--	--	--	--	--
Maximum distance traveled during the whole test (mm)	--	--	--	--	--	--
Time to reach maximum distance traveled	--	--	--	--	--	--

Note: 1. "--" Not reached the reference line

2. Six specimens are usually tested. If the test on any specimen is deemed to be invalid, as defined in the standard, it is permissible for up to a maximum of nine specimens to be tested in order to obtain the six valid test results.

The classification limits specified in BS 476-7:1997 *Incorporating Corrigendum No.1:2014* are given in Appendix 1.

Observations during test: The specimens did not ignite.

To be continued....



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Criteria for classification:

If the prefix "D" or suffix "R" or "Y" is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

Appendix 1 Classification of spread of flame

Classification	Spread of flame at 1.5 min		Final spread of flame	
	Limit (mm)	Limit for one specimen in sample(mm)	Limit (mm)	Limit for one specimen in sample(mm)
Class 1	165	165+25	165	165+25
Class 2	215	215+25	455	455+45
Class 3	265	265+25	710	710+75
Class 4	Exceeding the limits for class 3			

Appendix 2 Explanation of prefix and suffixes which may be added to the classification

1. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
2. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
3. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

Classification: In accordance with the class definitions given in BS 476 Part 7:1997 *Incorporating Corrigendum No.1:2014*, the tested sample is classified as **Class 1**.

Statements:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

To be continued....



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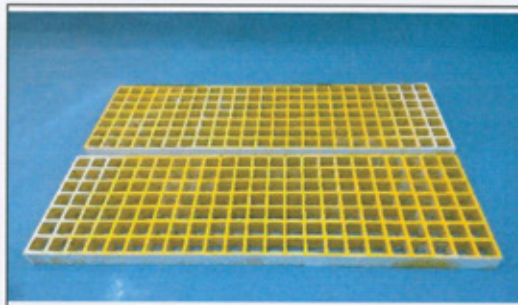
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Photo Appendix:



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End of Report



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