Test Report

NAME: DELACOPANELS PTY LTD
ADDRESS: 1/48 CITY LINK DRIVE CARRARA QLD 4211-GOLD COAST - AUSTRALIA

This report is revised from report NO.CZFS2311000800FF issued on Dec.1,2023，the original report is still valid. Modify the name and address of the applicant according to applicant's requirements.

Sample Description: ACOUSTIC WALL PANEL

SGS Ref.No.: GZHL2311038394FT

The above sample(s) 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. Results apply to the sample as received.

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Test Requested:

AS ISO 9705-2003 (R2016) Fire tests – Full-scale room test for surface products.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date	:	Nov. 6, 2023
Test Performing Date	:	Nov. 6, 2023 TO Nov. 23, 2023

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd

Matthew Fang
Approved Signatory

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通标标准技术服务(常州)有限公司 检验检测专用章 Inspection & Testing Services SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd Fire Technology Service Division

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I. Test conducted

Test in accordance with AS ISO 9705-2003(R2016) Fire tests – Full-scale room test for surface products.

II. Sample details

Sample description	Acoustic wall panel
Color	Wood and Black
Density(kg/m^2)	16.4
Sample size	1200*2400*21mm
Thickness (mm)	12 mm (Wood color panel) plus 9 mm (Acoustic panel)

Calibration record: [1)]

Time (min)	Heat output (kW)	Heat release rate calculated from the measure oxygen consumption (kW)	Difference (%)
0~2	0	0	0
2~7	100	103	3
7~12	301	306	2
12~17	99	100	1
17~19	0	0	0

Note:

1) At steady state conditions, the difference between the mean rate of heat release over 1 min calculated from the measured oxygen consumption and that calculated from the metered gas input shall not exceed 5 % for each level of heat output.

Method of sampling: The test specimens are provided by the customer.

Preparation and mounting of test specimens: The specimens were attached to the calcium silicate board by screw nails. Three walls (excluding the wall containing the doorway) and the ceiling were covered the specimens.

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III. Test results

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

Test item	Result	Time occurred (s)
The peak heat release rate during the first 10 min (kW)	8.3	276
The peak heat release rate during a further 10 min (kW)	108.2	798
The total heat release (MJ)	36.2	
The total smoke release (m^2)	2086.1	
The max. smoke release rate (m^2/s)	4.9	1170
FIGRA/ (W/s)	135.6	
$SMOGRA_{RC}$/ (m^2/s^2 x 1000)	4.0	
The average smoke production rate over the period 0 - 20 min (m^2/s)	1.6	
Whether the flashover occurred (Yes / No)	No	

Remark: The heat release rate and total heat release do not include the heat output of the burner.

1) The flame did not spread to the outer extremity of the sample on any wall or ceiling, flashover did not occur,
2) Curve of time / heat release rate -- see Figure 1, Appendix 2
3) Curve of time / total heat release -- see Figure 2, Appendix 2
4) Curve of time / production of carbon monoxide -- see Figure 3, Appendix 2
5) Curve of time / production of carbon dioxide -- see Figure 4, Appendix 2
6) Curve of time / smoke release rate -- see Figure 5, Appendix 2
7) Curve of time / total smoke release -- see Figure 6, Appendix 2

Observations during the test:

02:00: The heat output of burner was 100 KW.

03:46: The smoke was beginning to released, and increased gradually.

03:58: The sample in the burning area started to melt.

06:51: The wood color panels were broken and fall down.

12:00: The heat output of the burner was change to 300 KW.

12:16: The flame spread on the ceiling.

13:14: Smoke releases continued and the sample melting on the ceiling.

20:00: No flashover occurred at the whole test duration,and test was stopped.

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Appendix 1

Installation Guidance for Test Materials

IV. Preparation and mounting of test specimens

Installation Guidance for Test Materials

1. Installation instructions for the ceiling part:

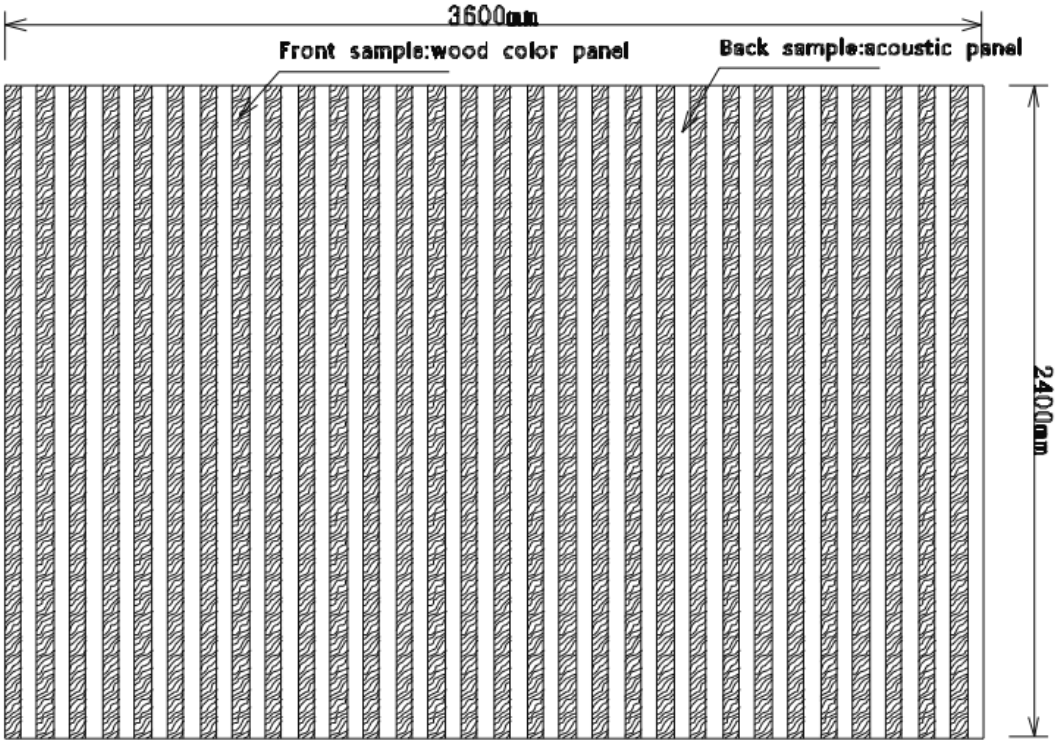


Figure 1: Ceiling Part

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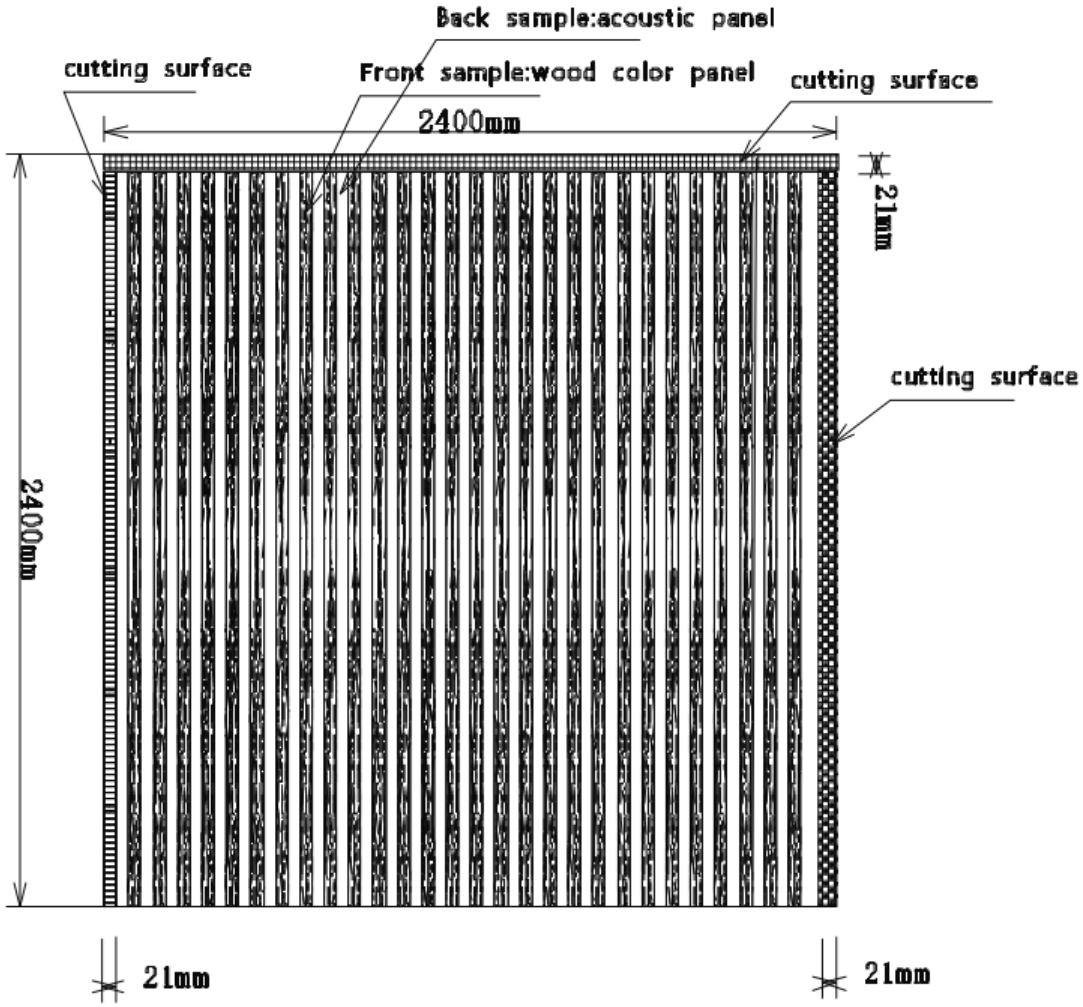


Figure 2: Wall Part (2.4m)

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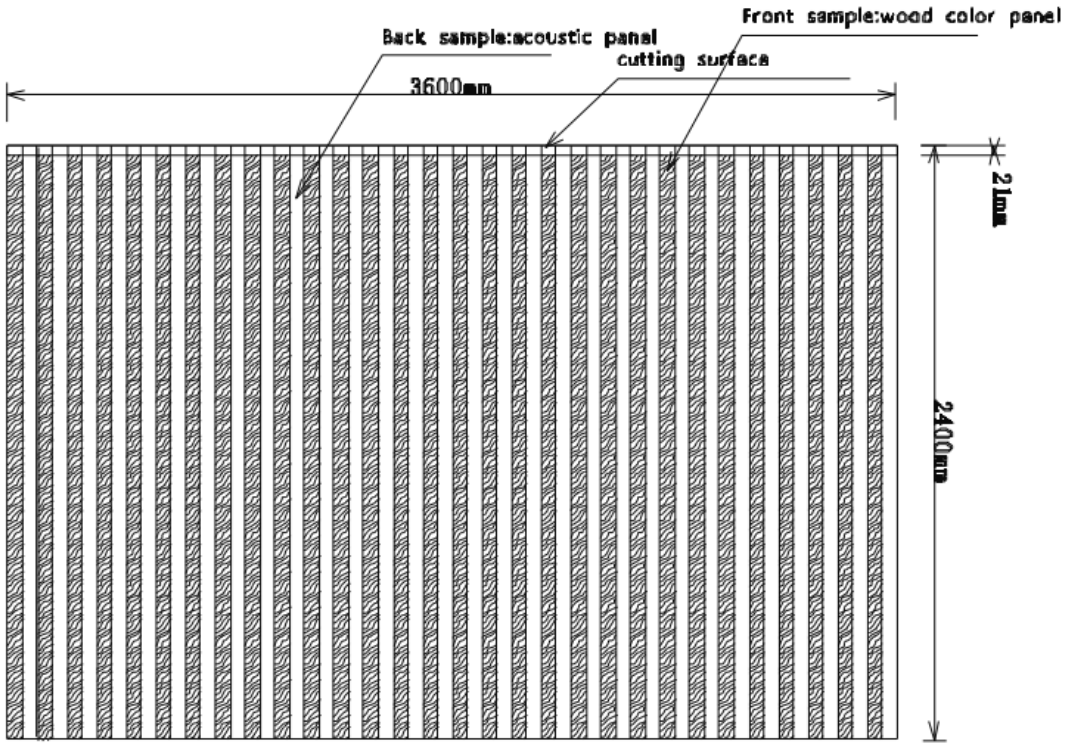


Figure 3: Wall Part (3.6m)

V. Test conducted

The fire test was conducted in accordance with AS ISO 9705-2003(R2016) Fire tests – Full-scale room test for surface products, and the report **No. CZFS2402000130FF.**

VI. Conclusion

According to Assigning group numbers requirements, the sample assigned as **Group 1.**

SMOGRARc=4.0 m s x 1000

Assigning group numbers (According to AS 5637.1:2015 clause 4.2)

(a) Group 1 - material that does not reach flashover when exposed to 100 kW for 600 s followed by exposure to 300 kW for 600 s.

(b) Group 2-material that reaches flashover following exposure to 300 kW within 600 s after not reaching flashover when exposed to 100 kW for 600 s.

(c) Group 3-material that reaches flashover in more than 120 s but within 600 s when exposed to 100 kW.

(d) Group 4- material that reaches flashover within 120 s when exposed to 100 kW.

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Appendix 2

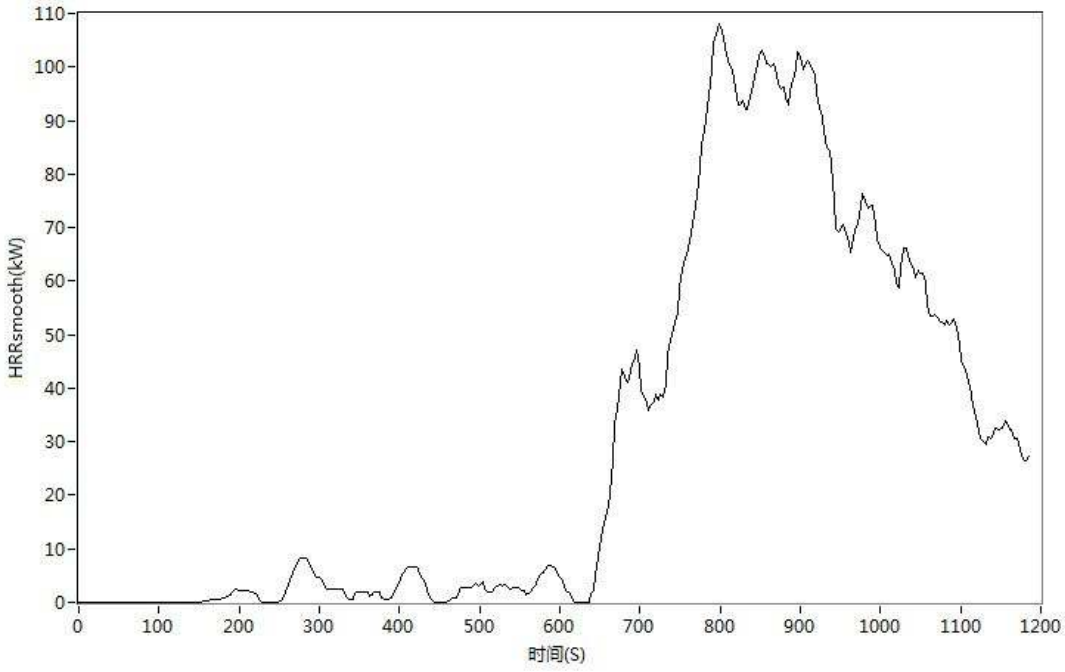


Figure 1 – Heat release rate / Time curve

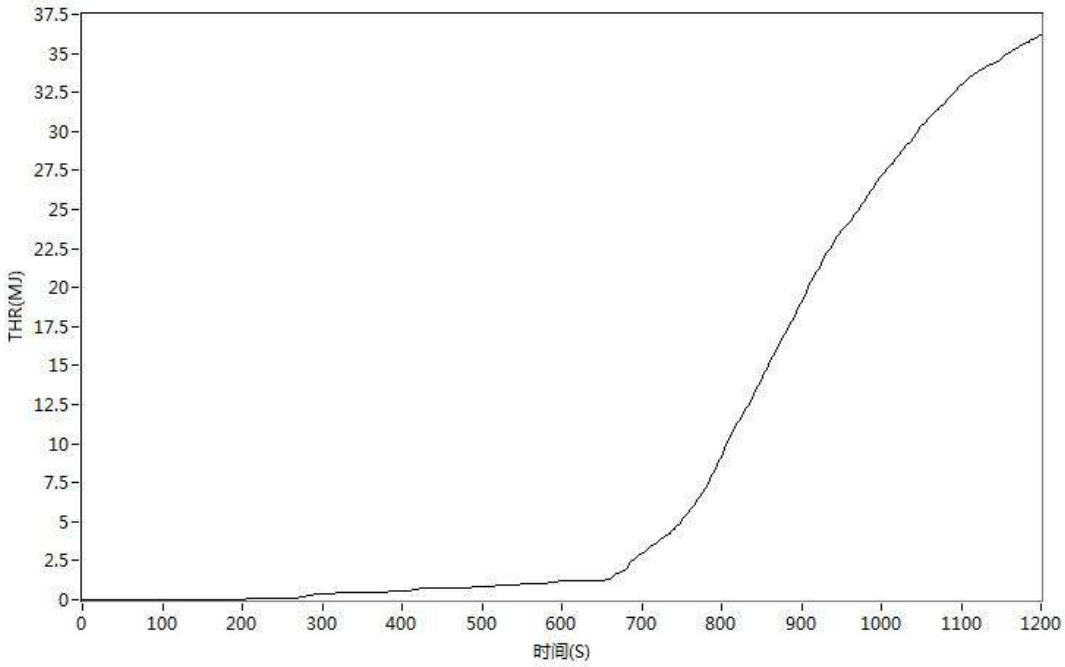


Figure 2 – Total heat release / Time curve

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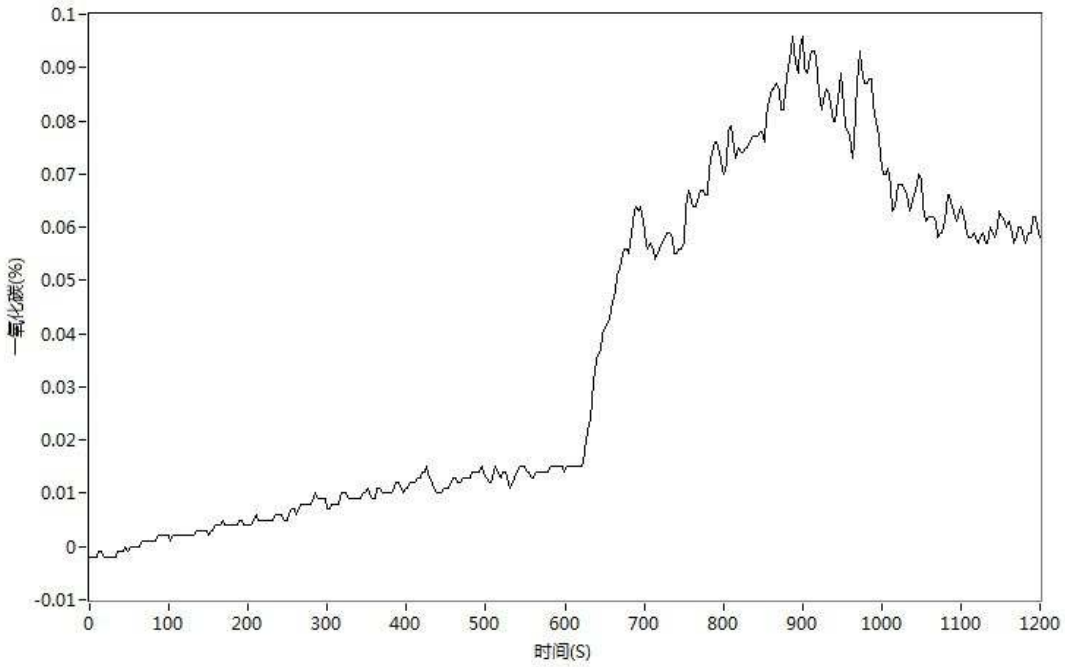


Figure 3 –Carbon monoxide / Time curve

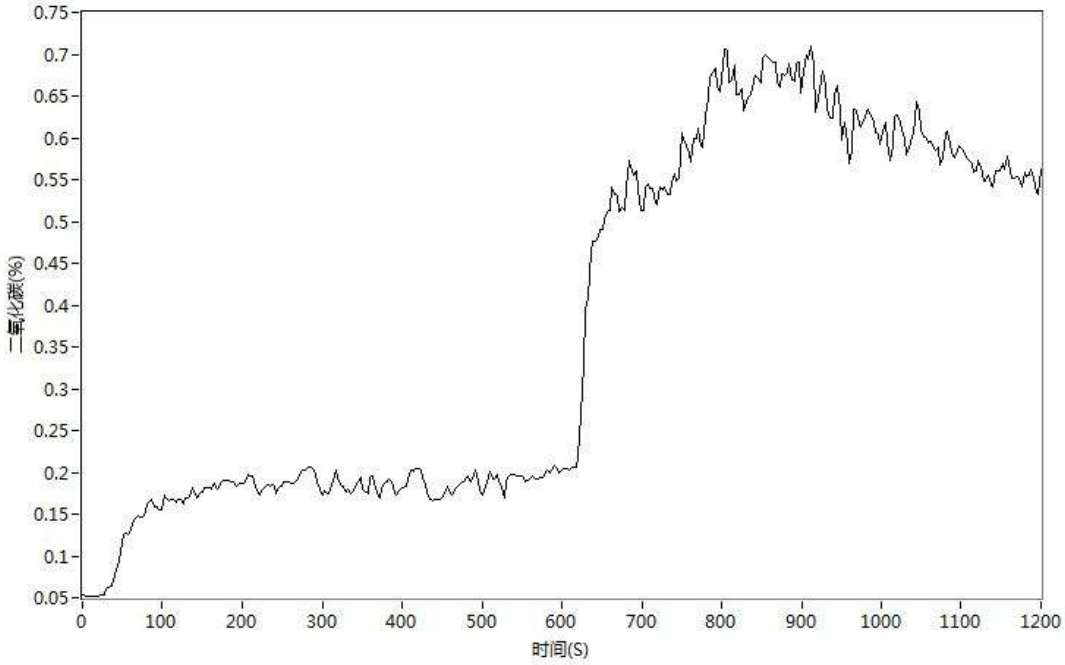


Figure 4 –Carbon dioxide / Time curve

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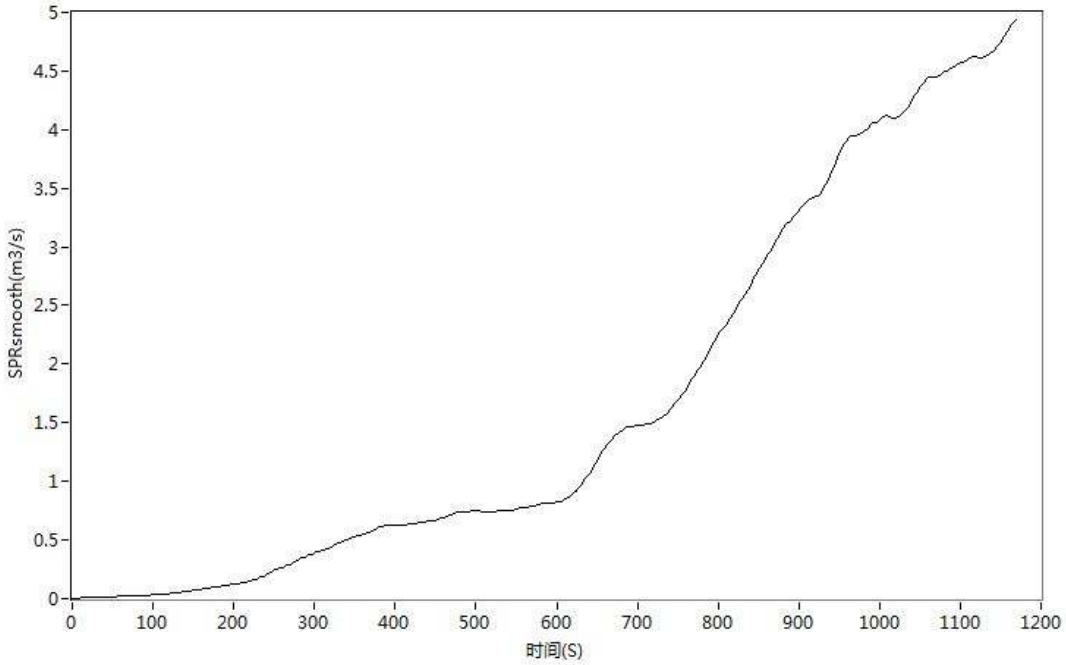


Figure 5 – Smoke release rate / Time curve

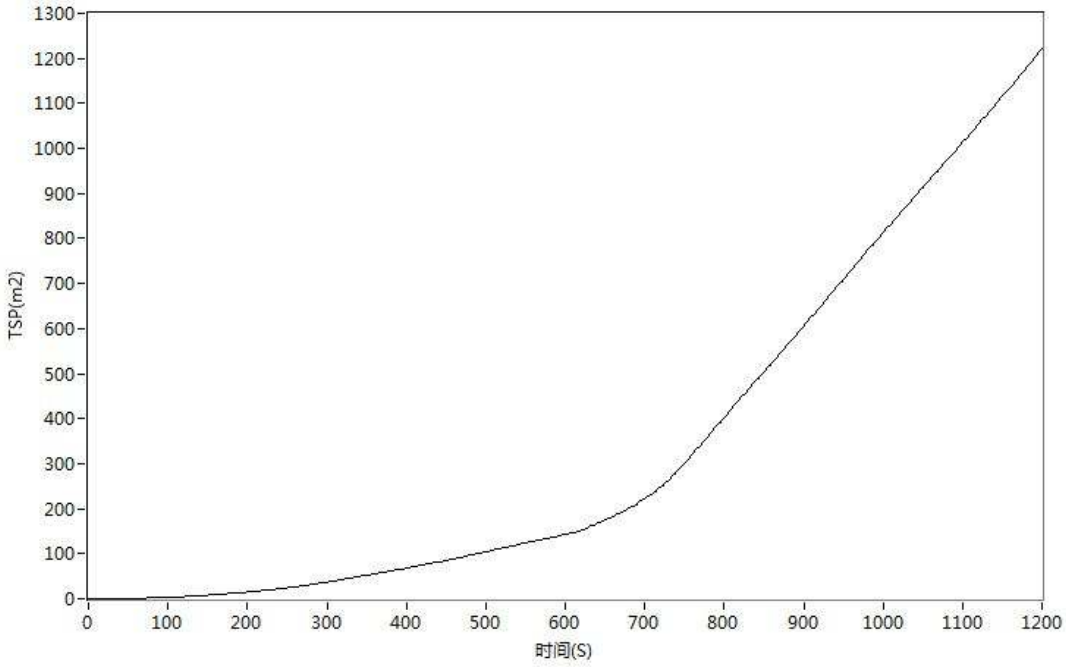
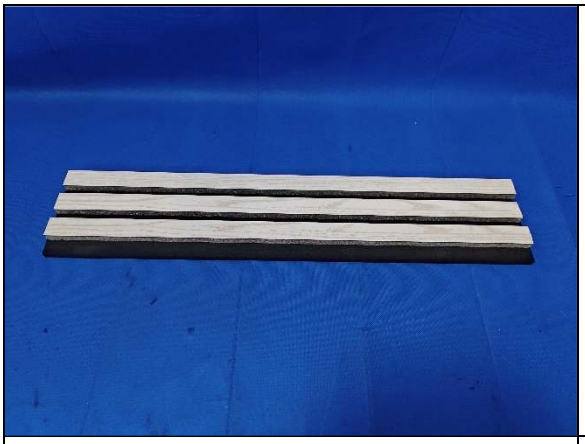


Figure 6 - Total smoke release / Time curve

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Appendix: Photo



Product1



Figure 1: Before test



Figure 2: Ignition



Figure 3: 100kW-1



Figure 3: 100kW-2



Figure 4: 100kW-3

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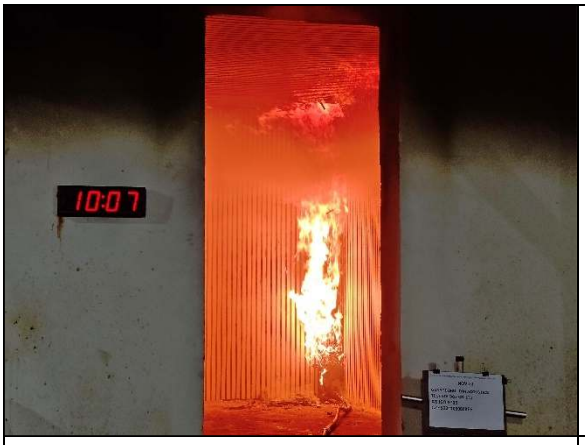


Figure 5: 300kW-1

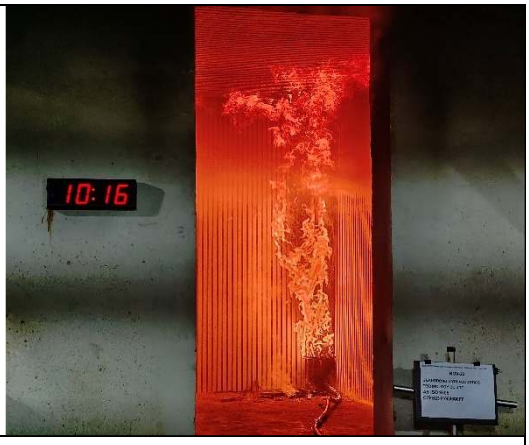


Figure 6: 300kW-2



Figure 7: 300kW-3



Figure 8: 300kW-4



Figure 9: Burner extinguishing



Figure 10: After test

SGS authenticate the photo on original report only

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