FURNX PTY LTD

Building 2C, 39 Johnstone Road, Brendale QLD 4500 Australia

Sample Description	:	PET acoustic panel
Material and Mark	:	100% polyester fiber
Product Specification	:	1220×2800×12mm
Density	:	2350g/㎡ (+/-7%)

The above sample(s) data and 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.

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SGS Ref. No.	:	SHPL2606006221
Sample Receiving Date	:	Jun 26,2026
Testing Period	:	Jun 26,2026 to Jul 13,2026
Test Required	:	AS ISO 9705-2003 (R2016) Fire tests – Full-scale room test for surface products.
Test result(s)	:	Classified as Group Number 1 in accordance with AS 5637.1 See attached results

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

Bruce Zhu
Approved signatory

Scan to see the report
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Test Requested:

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

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	PET acoustic panel
Color	Beige
Area Density(kg/m^2)	2.5
Sample size	2400mm*1200mm
Thickness (mm)	12 mm

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	99	1
7~12	300	298	1
12~17	100	101	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 bolts. 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)	168.7	600
The peak heat release rate during a further 10 min (kW)	462.6	678
The total heat release (MJ)	324.1	
The total smoke release (m^2)	738.4	
The max. smoke release rate (m^2/s)	1.1	1167
$SMOGRA_{RC}$/ (m^2/s^2 x 1000)	0.97	
Whether the flashover occurred (Yes / No)	No	

Remark: The heat release rate and total heat release include the heat output of the burner.

1) Curve of time / heat release rate -- see Figure 1, Appendix 2
2) Curve of time / total heat release -- see Figure 2, Appendix 2
3) Curve of time / production of carbon monoxide -- see Figure 3, Appendix 2
4) Curve of time / production of carbon dioxide -- see Figure 4, Appendix 2
5) Curve of time / smoke release rate -- see Figure 5, Appendix 2
6) Curve of time / total smoke release -- see Figure 6, Appendix 2

Observations during the test:

00:00: The test was ready to start.

02:24: The heat output of burner was 100 KW.

02:33: Some smoke was released, and increased gradually

02:55: The flame was spread on the ceiling, and some molten drops fell off due to the intense high temperature.

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

22:00: No flashover occurred during the whole test duration, and test was stopped.

Classification:

Based on the test results obtained in accordance with AS ISO 9705-2003 (R2016), the tested PET acoustic panel is classified as Group Number 1 in accordance with AS 5637.1.

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Statement:

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.

This report is only used for domestic customers' scientific research, teaching, internal quality control and product R & D, and does not have the role of social certification.

The test results or test reports shall not be used for improper or illegal publicity.

Sample acquisition method：customer sends samples by post

Test Address：No.3, Hehai East Road, Tianning District, Changzhou, Jiangsu, China

Appendix 1

Installation Guidance for Test Materials

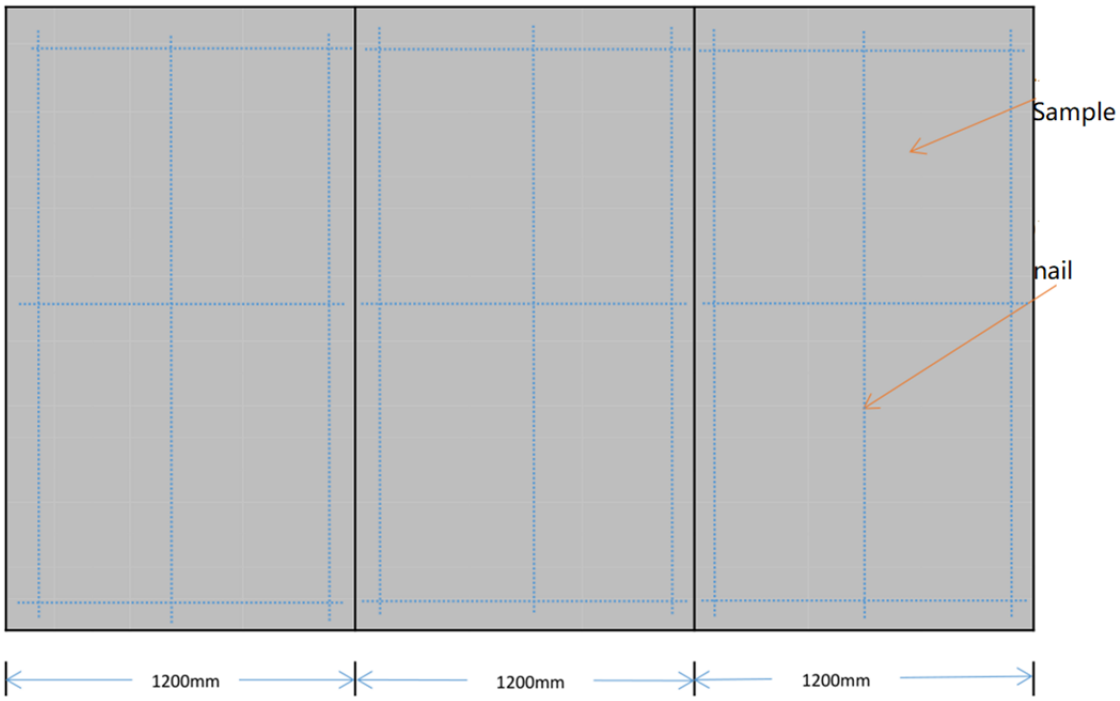

Figure 1: Ceiling Part

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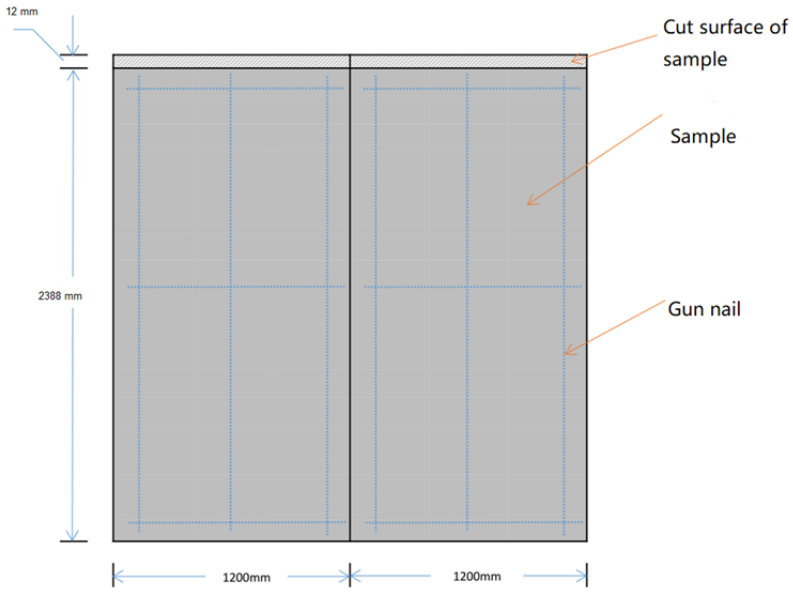

Figure 2: Wall Part (2.4m)

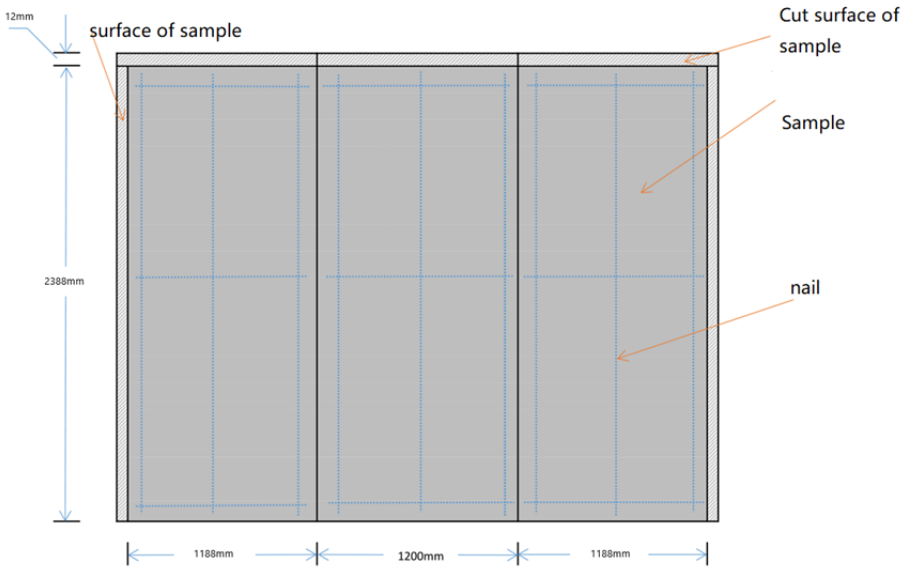

Figure 3: Wall Part (3.6m)

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Appendix 2

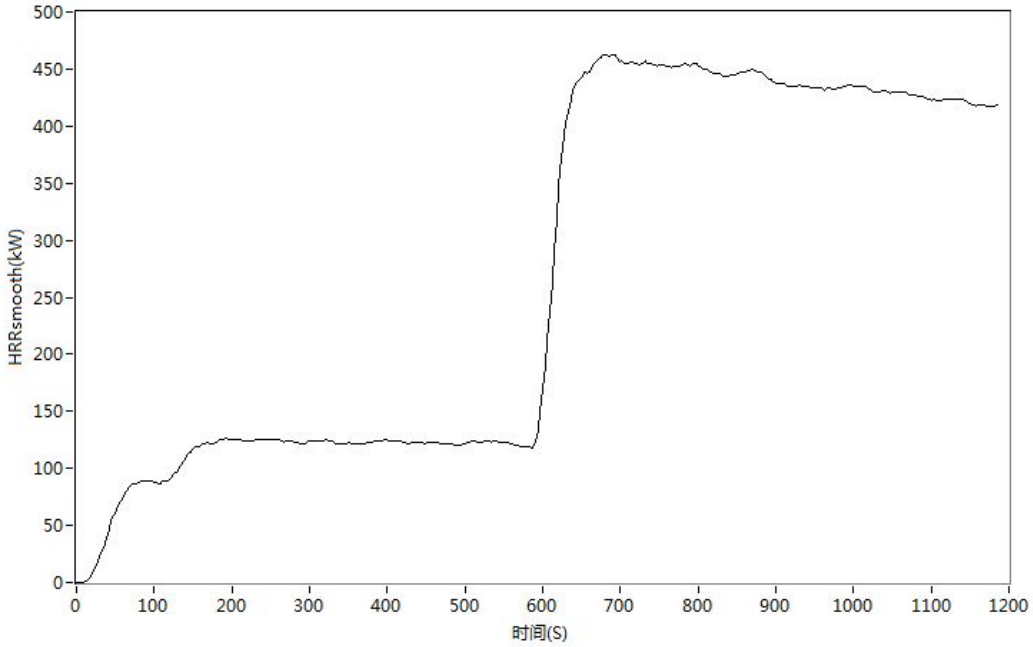

Figure 1 – Heat release rate / Time curve

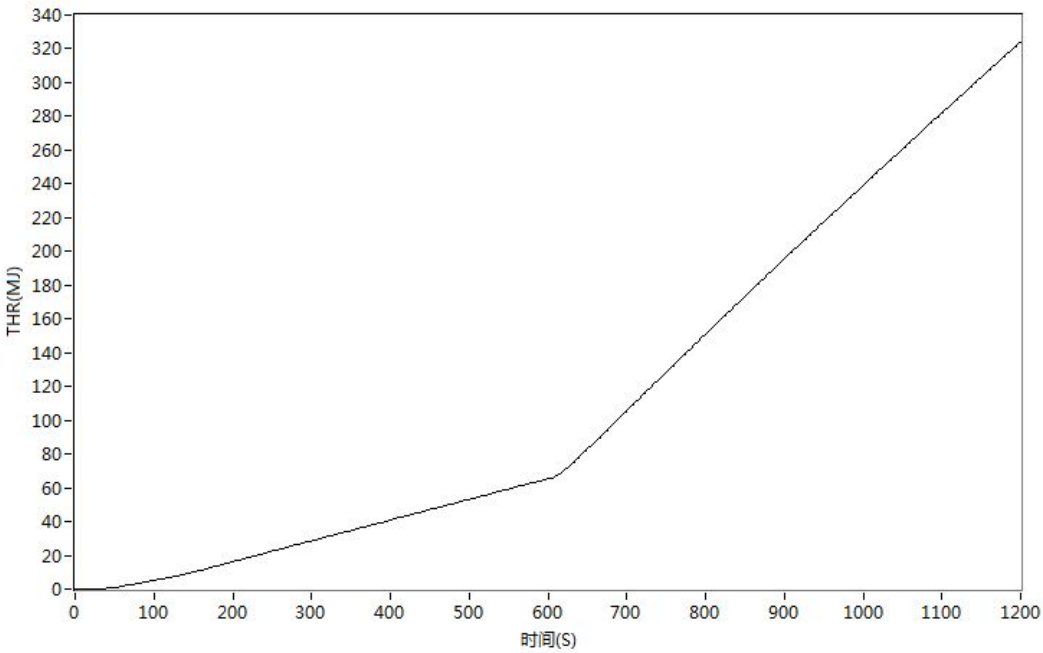

Figure 2 – Total heat release / Time curve

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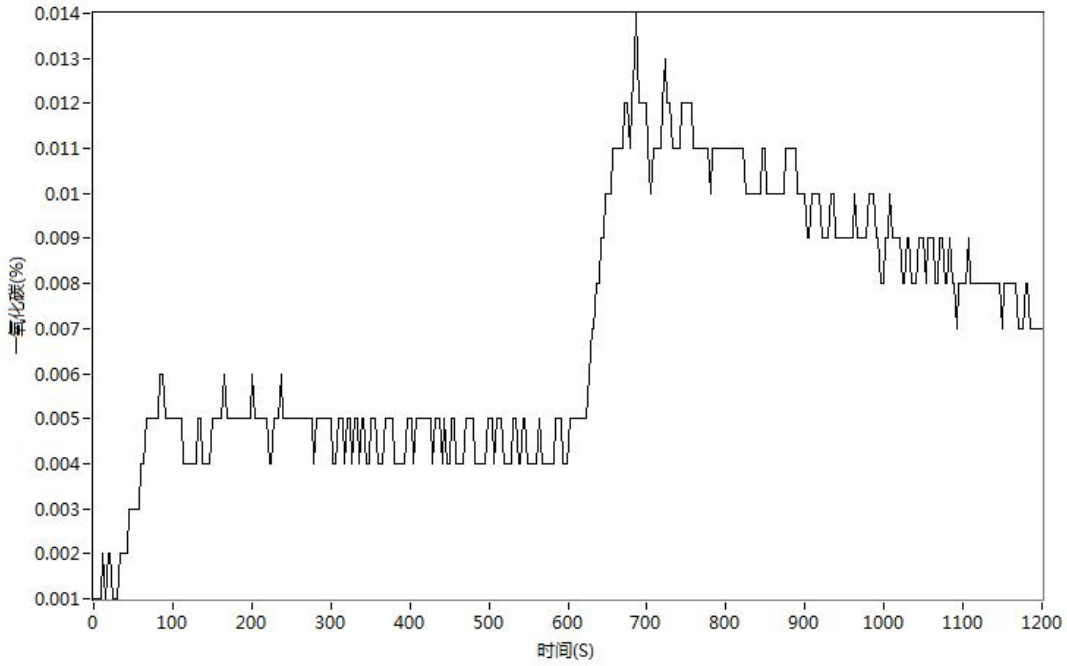

Figure 3 –Carbon monoxide / Time curve

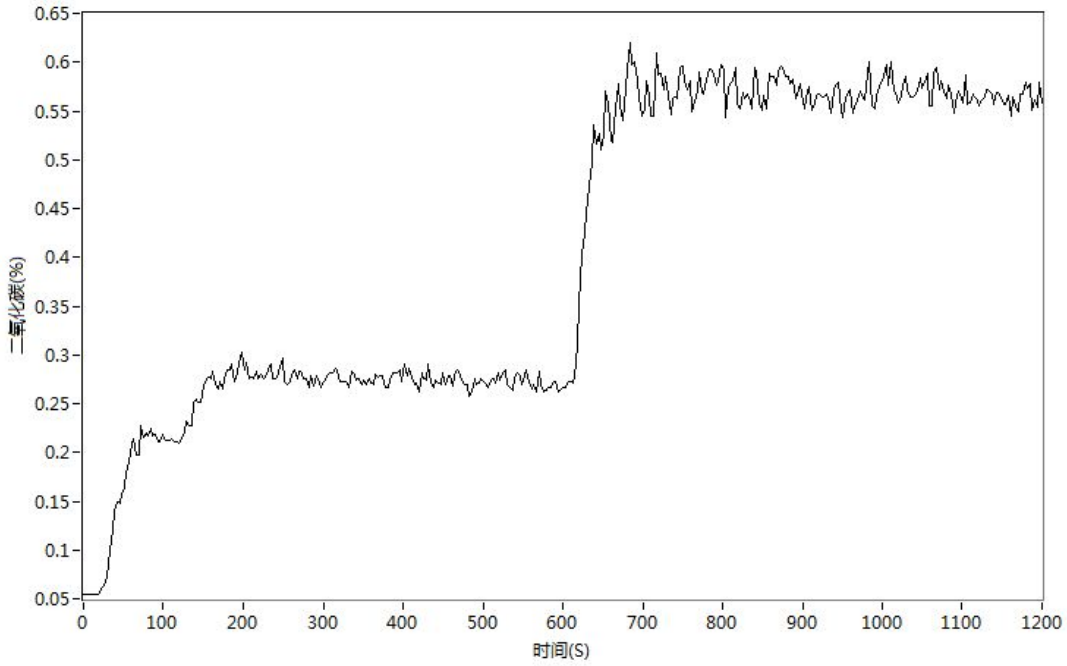

Figure 4 –Carbon dioxide / Time curve

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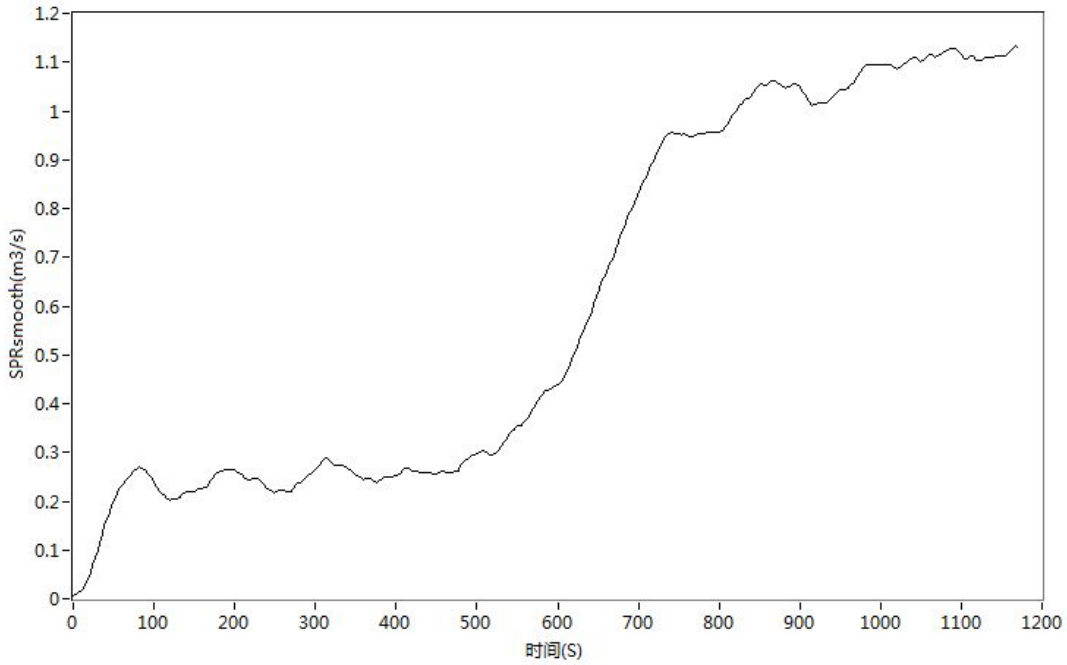

Figure 5 – Smoke release rate / Time curve

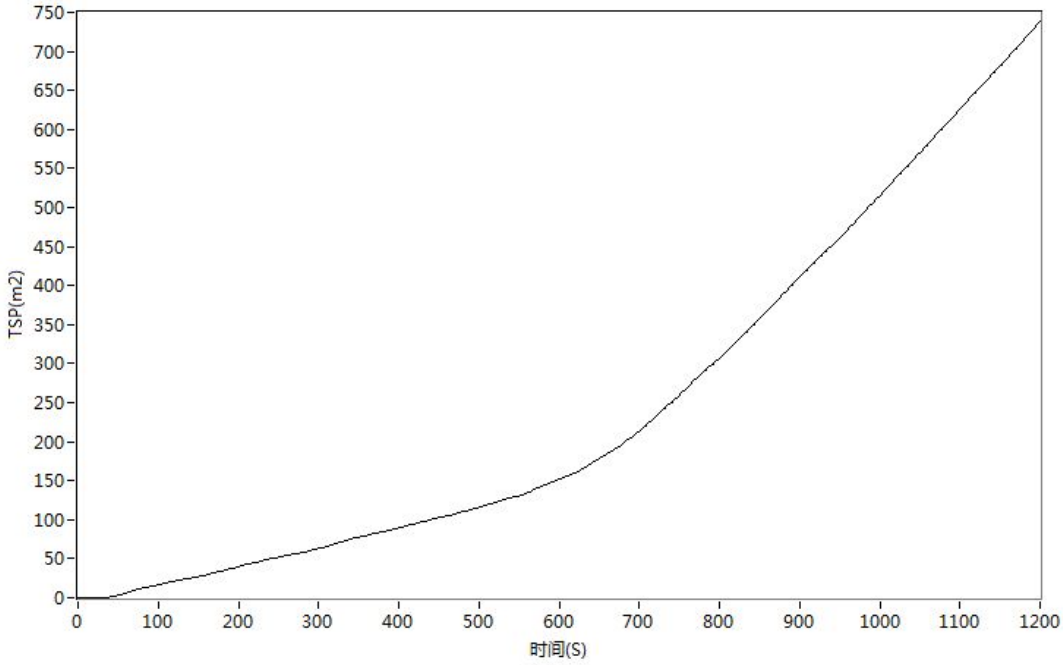

Figure 6 - Total smoke release / Time curve

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Appendix: Photo

Figure 1: Before test

Figure 2: Ignition

Figure 3: 100kW-1

Figure 4: 100kW-2

Figure 5: 100kW-3

Figure 6: 100kW-4

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Figure 7: 300kW-1

Figure 8: 300kW-2

Figure 9: 300kW-3

Figure 10: 300kW-4

Figure 11: Burner extinguishing

Figure 12: After test

SGS authenticate the photo on original report only

End of Report

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