FOSHAN ZCAMP INTELLIGENT EQUIPMENT CO., LTD.

NO.3, ZHENZHU ROAD, YANG E, LUNJIAO, SHUNDE, FOSHAN, GUANGDONG, CHINA

Sample Description : ROOFS OF PREFABRICATED HOUSES

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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Sample Receiving Date	:	Nov 25,2025
Testing Period	:	Nov 25,2025 to Dec 16,2025
Test Required	:	EN 1364-2:2018 Fire resistance tests for non-loadbearing elements - Part 2: Ceilings
Test result(s)	:	See attached sheet

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Ada

Ada Liu
Approved signatory

Scan to see the report

SDFTS25007364R01
Verification:
check.sgsonline.com.cn

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1. INTRODUCTION

The test was conducted in accordance with EN 1363-1:2020, “Fire resistance tests - Part 1: General requirements” and EN 1364-2:2018, “Fire resistance tests for non-loadbearing elements – Part 2: Ceilings”, to determine 30 minutes fire resistance performance of ROOFS OF PREFABRICATED HOUSES.

The ROOFS OF PREFABRICATED HOUSES was exposed to elevated temperatures as dictated by the time-temperature curve given in EN 1363-1:2020 for a period of 30 minutes. According to the declaration of the sponsor, the specimen exhibited an asymmetrical configuration and was subjected to testing on the designated surface.

The test was conducted on Nov.27, 2025.

2. SUMMARY

The ROOFS OF PREFABRICATED HOUSE specimen satisfied the performance requirements for the following periods:

PERFORMANCE CRITERIA	RESULTS	
Integrity	Sustained flaming	30 min
	Cotton pad test	30 min
	Gap gauge test	30 min
Insulation		30 min

The test was discontinued after a period of 30 minutes at the request of the sponsor.

3. SPECIMEN CONSTRUCTION AND INSTALLATION

The specimen for this fire resistance test was ROOFS OF PREFABRICATED HOUSE. The overall dimensions of the specimen was 4500 mm long by 3000 mm wide by 230 mm thick.

The tested sample was supported on the horizontal furnace with an opening of the 2800 mm by 4200 mm. The all around of the furnace wall was covered by ceramic fibre cotton. The tested sample was asymmetrical.

Detailed drawings and structural composition of the specimen are shown in Appendix 1 and were provided by the sponsor. The sample was sent to the laboratory by the sponsor.

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4. TEST PROCEDURE

The sample was tested under a non-loadbearing construction in accordance with EN 1364-2:2018, “Fire resistance tests for non-loadbearing elements – Part 2: Ceilings”.

4.1 Furnace Temperature Control

The sample was tested in the horizontal test furnace of opening size 4200 mm × 4000 mm. Twelve furnace thermocouples, which were distributed uniformly in the furnace and were kept at 100±50 mm away from the exposed face of the test assembly, were provided to monitor the mean temperature of the furnace.

The average temperature in the furnace shall be raised and controlled according to the temperature/time requirements specified in Clause 5.1 of EN 1363-1:2020.

4.2 Furnace Pressure Control

The furnace pressure was monitored and controlled. The nominal pressure on the underside of the test specimen was set to be 18 Pa. The pressure condition was established 100 mm below the underside of the separating element. Five minutes after the commencement of the test the furnace pressure shall be ± 5 Pa of the nominal pressure specified for the particular element under test; from 10 min onwards it shall be ± 3 Pa of the nominal pressure specified for the particular element under test.

4.3 Integrity Monitoring

Cotton pads and gap gauges were available to evaluate the impermeability of specimen to hot gases. The occurrence of sustained flaming more than 10 s on the unexposed face was also checked to determine compliance with the integrity criterion.

4.4 Insulation Monitoring

The temperature on the unexposed surface of the specimen was measured by 9 measuring thermocouples. All above thermocouples were used to measure the temperature rise of individual points, and 1#~5# were also used to calculate the average temperature rise of the specimen.

When applicable, roving thermocouples can also be used to measure maximum temperature rise on the unexposed surface.

4.5 Deflection Measurement

After the test began, the deflection of the sample was measured by the wire displacement sensor. The sensor recorded a reading once per minute, and the measurement point was located at the center of the unexposed side of the sample under test.

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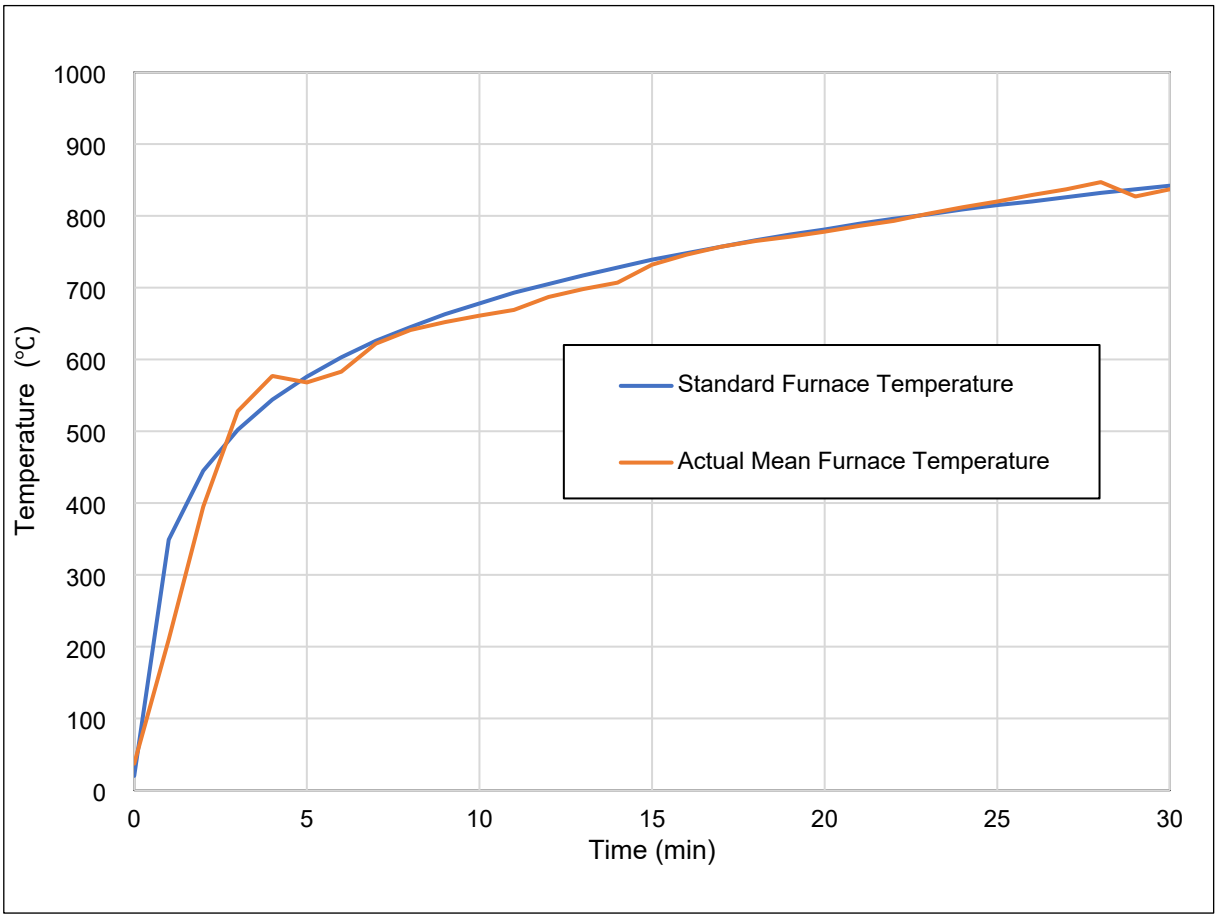
5. TEST DATA AND OBSERVATION

5.1 Condition

The ambient air temperature in the vicinity of the test construction was 20.4 ℃ at the start of the test with variation of -0.1 ℃ during the test.

5.2 Furnace Temperature Record

The actual furnace temperature/time and standard furnace temperature/time curves are shown in below figure.



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The actual average temperatures within the furnace are recorded on the table below:

Time (min)	Standard Furnace Temperature (℃)	Actual Furnace Average Temperature (℃)	Deviation
0	20	37	-
1	349	210	-33.0%
2	445	395	-26.6%
3	502	528	-15.8%
4	544	577	-8.7%
5	576	568	-5.8%
6	603	583	-5.1%
7	626	622	-4.5%
8	645	641	-3.9%
9	663	652	-3.5%
10	678	661	-3.3%
11	693	669	-3.3%
12	705	687	-3.2%
13	717	698	-3.2%
14	728	707	-3.1%
15	739	732	-3.0%
16	748	746	-2.9%
17	757	757	-2.7%
18	766	765	-2.5%
19	774	771	-2.3%
20	781	778	-2.2%
21	789	786	-2.1%
22	796	793	-2.0%
23	802	803	-1.9%
24	809	812	-1.8%
25	815	820	-1.7%
26	820	829	-1.6%
27	826	837	-1.4%
28	832	847	-1.3%
29	837	827	-1.3%
30	842	837	-1.2%

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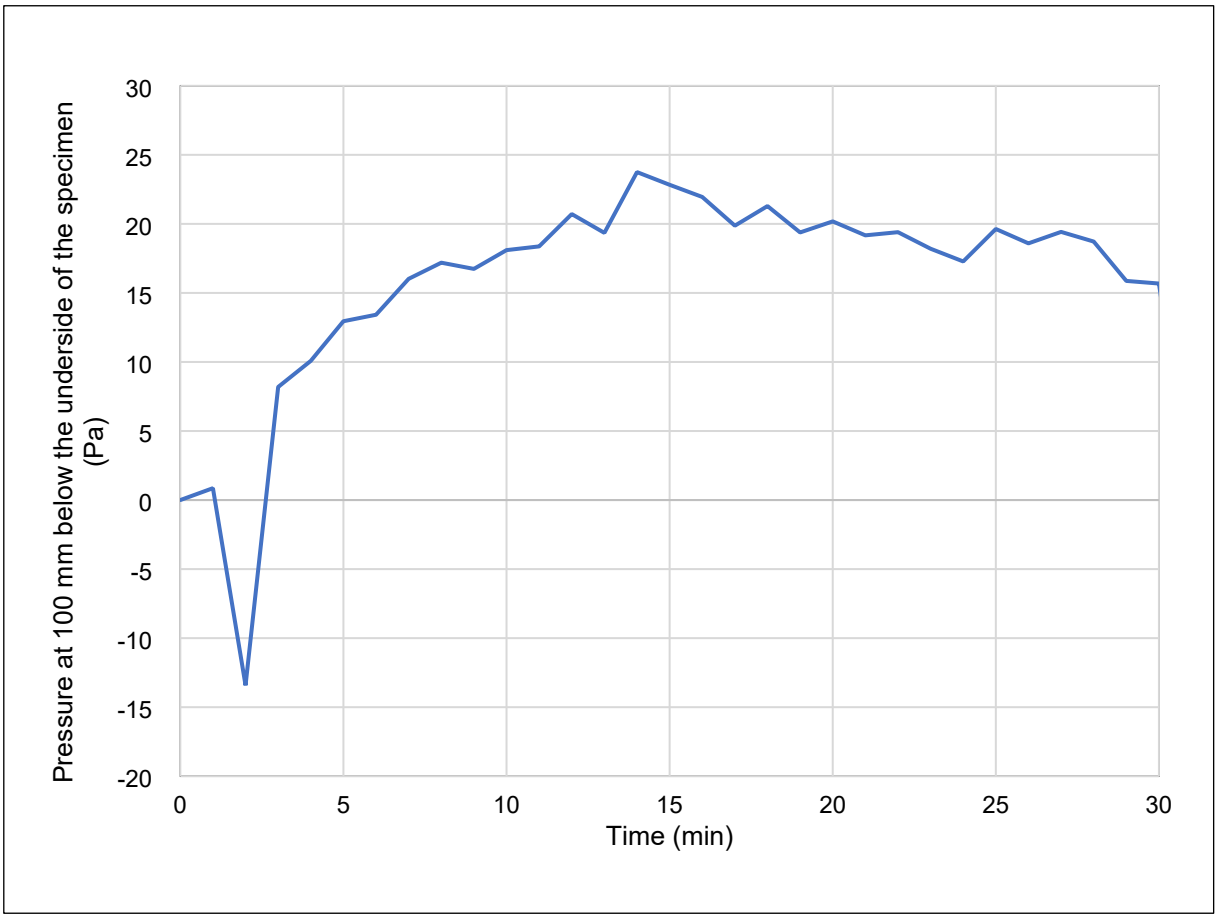
5.3 Furnace Pressure Record

The actual furnace pressure/time curves are shown in below figure.



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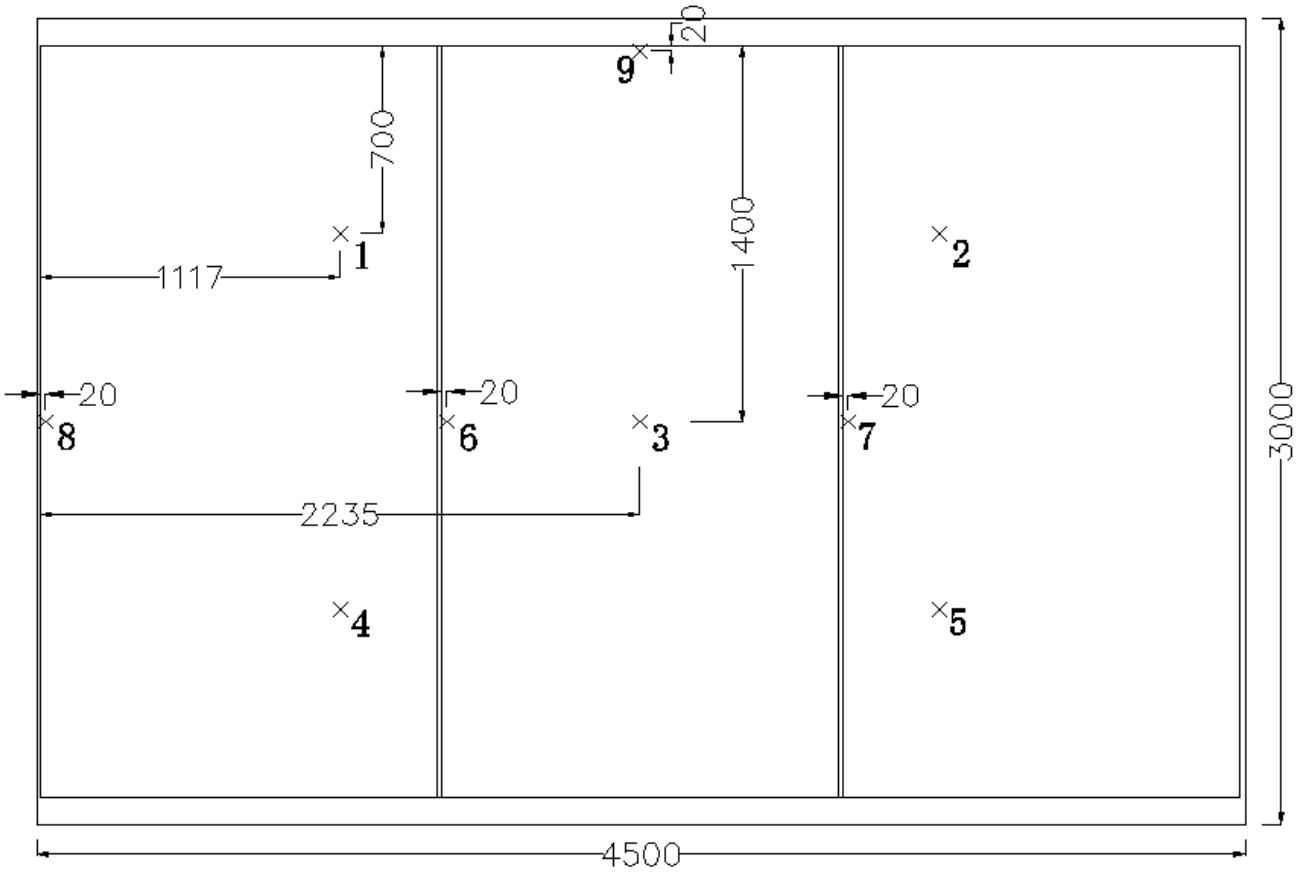
5.4 Unexposed Surface Temperatures Record

The unexposed surface temperatures of the specimens were measured during the test.

Positions for measuring unexposed temperatures were shown below (unit: mm).



× - Positions of Thermocouples

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The unexposed surface temperatures were shown on the table below:

Time (min)	Temperature (℃)										
	1#	2#	3#	4#	5#	6#	7#	8#	9#	Mean Rise	Max Rise
0	22	23	22	21	21	21	21	22	24	0	2
1	22	23	22	21	21	21	21	22	24	0	2
2	22	23	21	21	21	21	21	22	24	0	2
3	22	23	21	21	21	21	21	22	24	0	2
4	22	23	21	21	21	21	21	22	24	0	2
5	22	23	21	21	21	21	21	22	24	0	2
6	22	23	21	21	21	21	21	22	24	0	2
7	22	23	21	21	21	21	21	22	24	0	2
8	22	25	22	21	21	21	21	22	24	0	3
9	22	28	21	21	21	21	21	22	24	1	6
10	22	30	22	21	21	21	22	22	24	1	8
11	22	32	22	21	21	21	22	22	24	2	10
12	22	33	22	21	21	21	22	22	24	2	11
13	22	34	22	21	21	21	23	22	24	2	12
14	22	35	22	21	21	21	23	22	24	2	13
15	22	37	22	21	21	21	24	22	24	3	15
16	22	37	22	21	21	21	25	22	24	3	15
17	22	38	22	21	21	21	25	22	24	3	16
18	22	37	22	21	22	21	25	22	24	3	15
19	22	37	22	21	22	21	26	22	24	3	15
20	22	36	22	21	22	21	26	22	24	3	14
21	22	35	22	21	22	21	26	22	24	2	13
22	22	34	22	21	22	21	26	22	24	2	12
23	22	34	22	21	22	21	26	22	24	2	12
24	22	33	22	21	22	21	25	22	24	2	11
25	22	32	22	21	22	21	25	22	24	2	10
26	22	32	22	21	22	21	25	22	24	2	10
27	22	31	22	21	22	21	25	22	24	2	9
28	22	30	22	21	22	21	25	22	24	1	8
29	22	30	22	21	22	21	25	22	24	1	8
30	22	29	22	21	22	21	24	22	24	1	7

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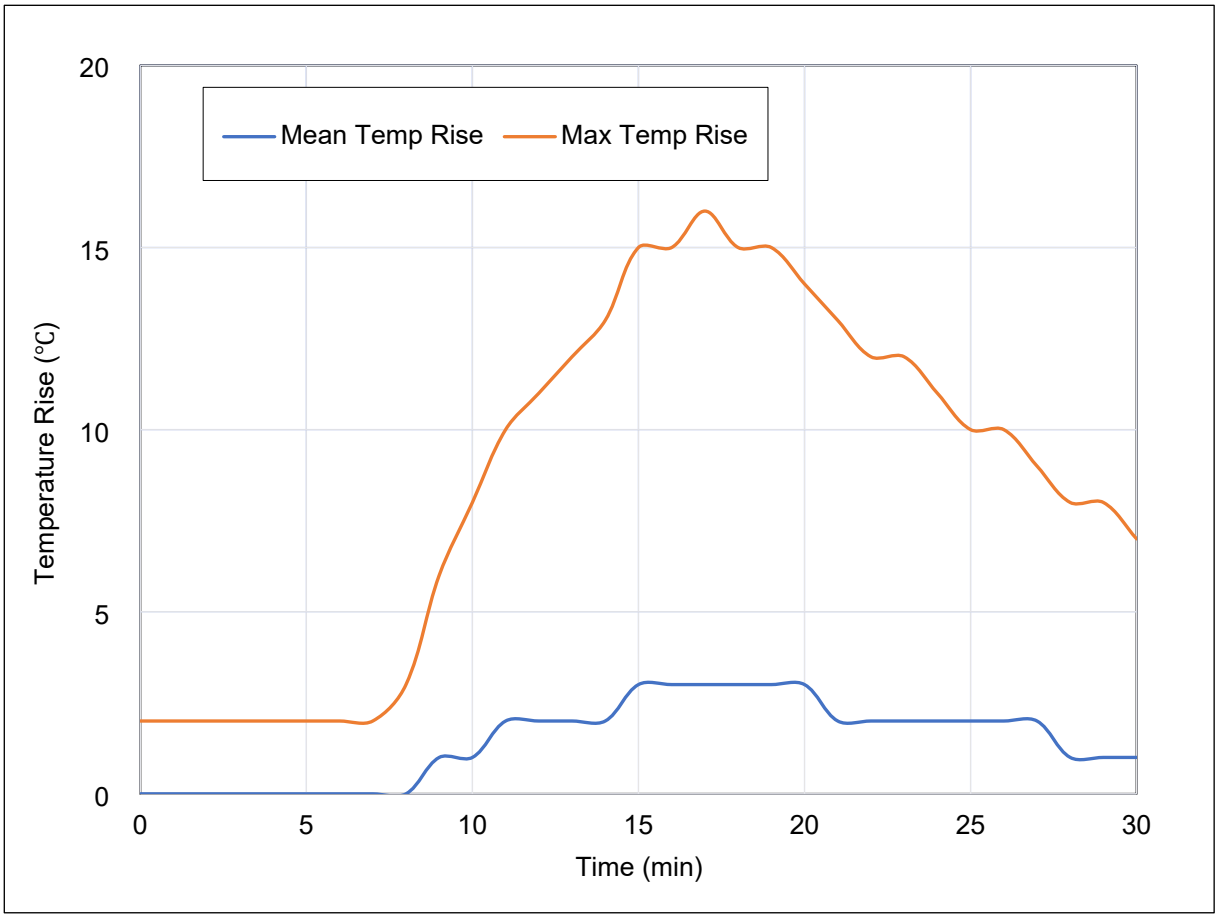
The unexposed face temperature rise/time curves were shown in the figure below.



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5.5 Deflection Record

Time (min)	Deflection (mm)
0	0.0
1	0.0
2	0.5
3	1.6
4	2.5
5	2.2
6	2.3
7	2.5
8	2.6
9	2.8
10	2.9
11	3.0
12	3.3
13	3.1
14	3.7
15	4.0
16	4.0
17	4.0
18	4.0
19	3.9
20	4.2
21	4.7
22	4.6
23	5.1
24	5.2
25	5.6
26	6.0
27	6.6
28	6.3
29	6.8
30	7.0

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5.6 Observations

Time		All observations were from the unexposed face unless noted otherwise
min	sec	
00	00	Furnace fired and test was started.
10	00	There were no visible significant changes to the unexposed face.
20	00	There were no visible significant changes to the unexposed face.
28	00	There was a flame at the seam of the exposed surface.
30	00	The sample was maintaining its integrity and insulation. The test was terminated.

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6. PERFORMANCE CRITERIA

The performance of the sample was assessed against the criteria for integrity and insulation in accordance with BS EN 1363-1:2020, Clause 11.

Integrity E:

These are the times in completed minutes for which the test specimen continues to maintain its separating function during the test without:

a) causing the ignition of a cotton pad when applied, or

b) permitting the penetration of a gap gauge as follows:

   i. whether the 6 mm gap gauge can be passed through the test specimen, such that the gauge projects into the furnace, and can be moved a distance of 150 mm along the gap; or

   ii. whether the 25 mm gap gauge can be passed through the test specimen such that the gauge projects into the furnace.

c) resulting in sustained flaming for a period of time greater than 10 seconds.

Insulation I:

This is the time in completed minutes for which the test specimen continues to maintain its separating function during the test without developing temperatures on its unexposed surface which:

a) increase the average temperature above the initial average temperature by more than 140 ℃, or

b) increase at any location (including the roving thermocouple) above the initial average temperature by more than 180 ℃.

The performance criteria “insulation” shall automatically be assumed not to be satisfied when the “integrity” criterion ceases to be satisfied.

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7. CONCLUSION

The tested specimen has been subjected to a fire resistance test in accordance with EN 1364-2:2018, “Fire resistance tests for non-loadbearing elements – Part 2: Ceilings”.

The fire resistance of the specimen was judged against the criteria for insulation and integrity as specified in the standard, and the specimen satisfied the performance requirements for the following period:

PERFORMANCE CRITERIA	RESULTS	
Integrity	Sustained flaming	30 min
	Cotton pad test	30 min
	Gap gauge test	30 min
Insulation		30 min

The test was discontinued after a period of 30 minutes at the request of the sponsor.

8. CLASSIFICATION

8.1 Reference for Classification

This classification has been carried out in accordance with Clause 7.5.4 of EN 13501-2:2023.

8.2 Classification

Test and classification were performed from one side only. The element, ROOFS OF PREFABRICATED HOUSE, was classified to be:

EI 30 (a←b)

Where, “a” referring to above and “b” to below the membrane, and EI 30 (a←b) indicates the specimen was capable of providing 30 min integrity and thermal insulation performance from the underside only.

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9 LIMITATION

The results only relate to the behaviour of the sample of the element of construction under the particular conditions of the test. They are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they reflect the actual behaviour in fires.

The sample was asymmetrical and was tested on the specified surface towards the heating conditions of the test. The test result may not be appropriate to the situation on the other side towards the heating conditions.

This report details the method of construction, the test conditions and the results obtained when the specific element of construction described herein was tested following the procedure outlined in EN 1363-1, and where appropriate EN 1363-2. Any significant deviation with respect to size, constructional details, loads, stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

Because of the nature of fire resistance testing and the consequent difficulty in quantifying the uncertainty of measurement of fire resistance, it is not possible to provide a stated degree of accuracy of the result.

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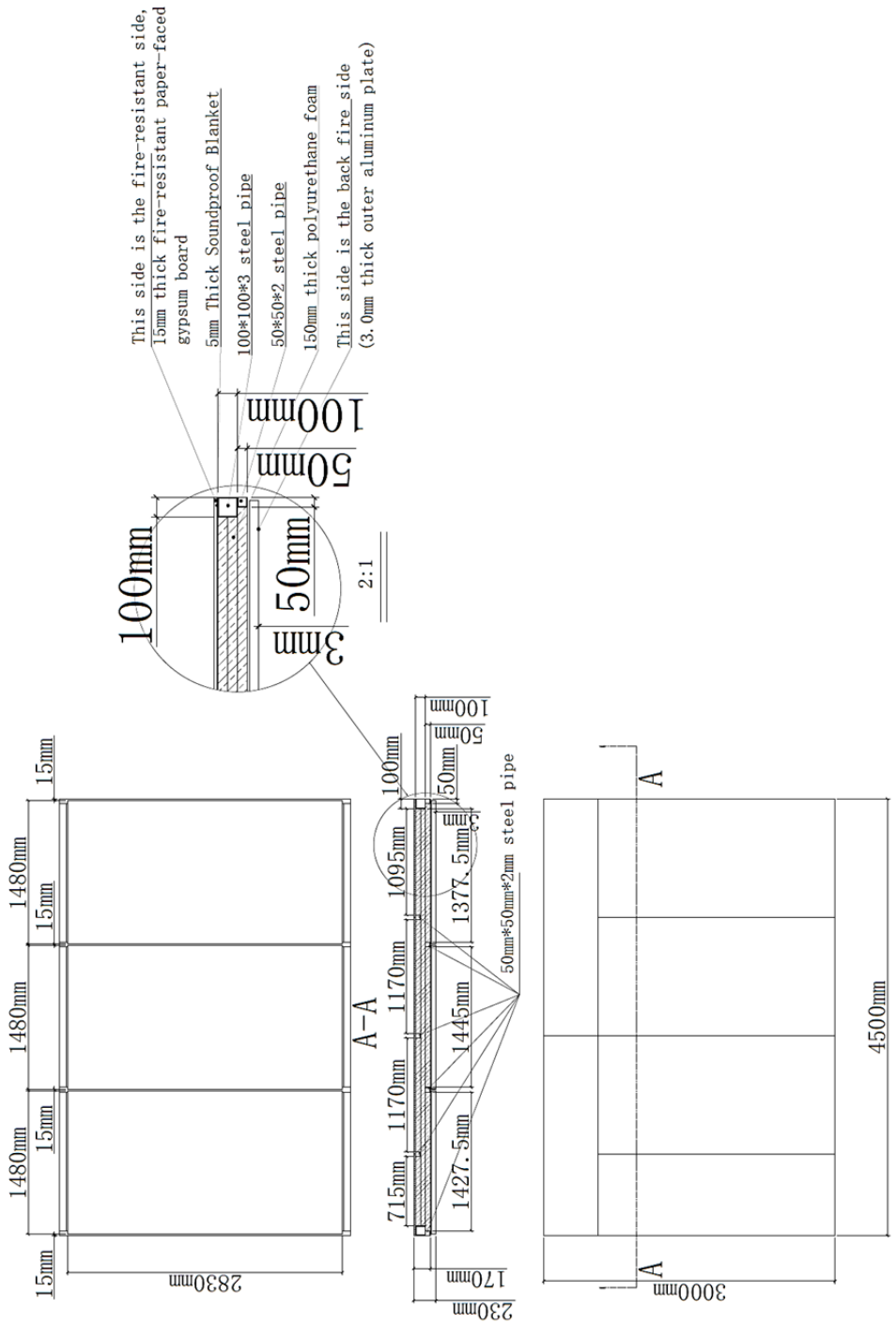
APPENDIX 1 - DRAWINGS



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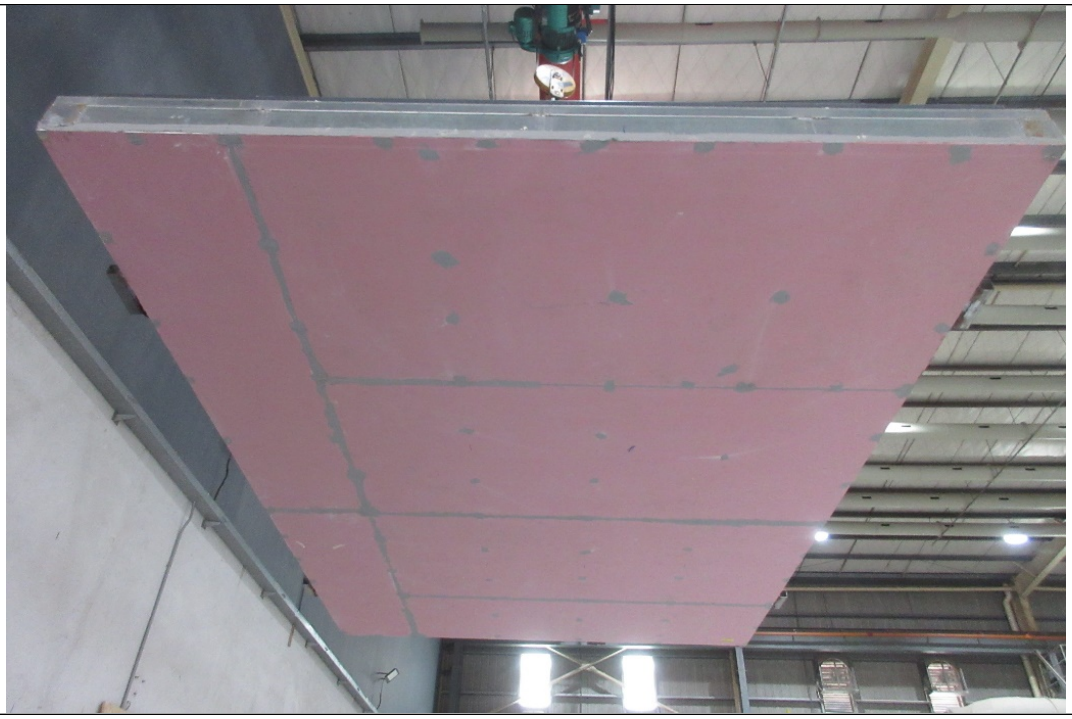
APPENDIX 2 - PHOTOS

The unexposed side before the test



The exposed side before the test

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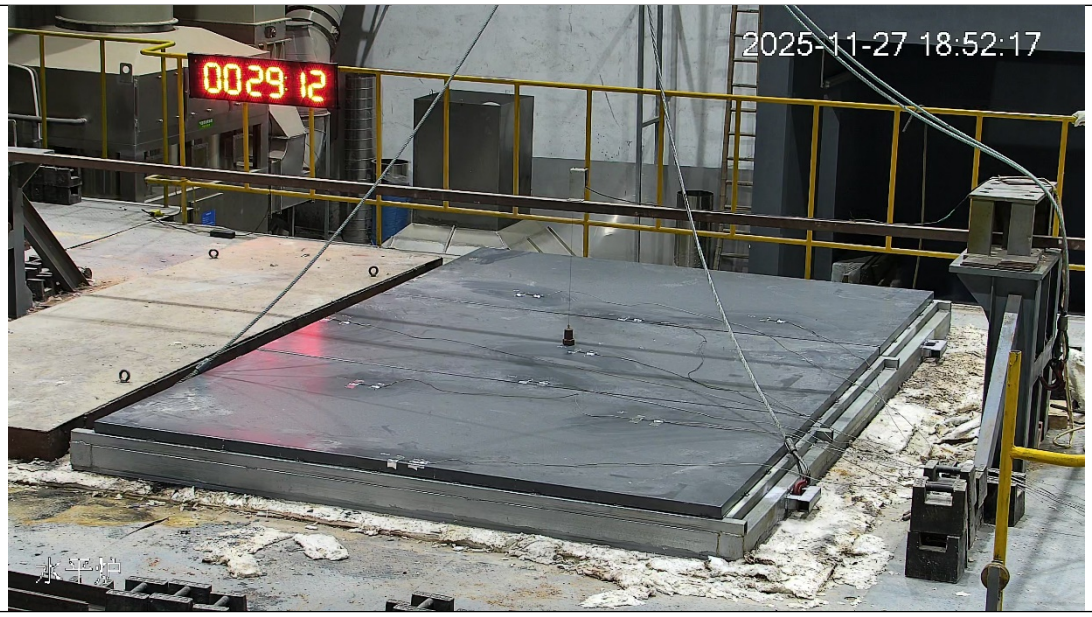
The unexposed side after 20 minutes of testing



The unexposed side after 29 minutes of testing

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The unexposed side after 30 minutes of testing

The exposed side after the test

SGS authenticate the photo on original report only

End of Report

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