



TEST REPORT

No.: SDFTS25007364R02_EN

Date: Dec 16, 2025

Page 1 of 19

FOSHAN ZCAMP INTELLIGENT EQUIPMENT CO., LTD.

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

Sample Description : PREFABRICATED HOUSE WALLS

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.

Sample Receiving Date : Nov 25, 2025

Testing Period : Nov 25, 2025 to Dec 16, 2025

Test Required : EN 1363-1:2020, "Fire resistance tests – Part 1: General Requirements" and EN 1364-1:2015, "Fire resistance tests for non-loadbearing elements – Part 1: Walls"

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

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1. INTRODUCTION

The test was conducted in accordance with EN 1364-1:2015, "Fire resistance tests for non-loadbearing elements - Part 1: Walls", to determine 30 minutes fire resistance performance of the Prefabricated house walls.

The Prefabricated house walls. was exposed to elevated temperatures as dictated by the time-temperature curve given in EN 1363-1:2020, "Fire resistance tests - Part 1: General Requirements" 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.26, 2025.

2. SUMMARY

The 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 Prefabricated house walls, which was installed using a low density rigid construction of the standard supporting constructions. A metal frame measuring opening size of 3.7 m × 3.7 m was used as the test frame, and lightweight brick were used to build the wall within the frame, with mortar used for joint filling. The overall dimensions of the specimen were 2440 mm in height × 3400 mm in width × 225 mm in thickness. The specimen was constructed within the lightweight brick wall with a thickness of 200 mm and was fixed by welding connecting steel rods. Observing from the unexposed side, the top, bottom, and left side of the specimen were fixed to the brick wall with mortar. A free edge in the form of an unrestrained gap with a width of approximately 30 mm was reserved on the right side of the specimen, which was filled with ceramic fibre.

Detailed drawings 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. The test was conducted in accordance with EN 1364-1:2015, "Fire resistance tests for non-loadbearing elements - Part 1: Walls". This test report should be read in conjunction with that standard and with EN 1363-1:2020, "Fire resistance tests - Part 1: General Requirements".

4.1 Furnace Temperature Control

The sample was tested in the vertical test furnace of opening size 3400 mm × 3400 mm. Eight 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 shall be monitored and controlled. 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. The furnace pressure was adjusted so that a neutral pressure axis was at a height of approximately 500 mm above the notional floor level. The pressure at the top of the sample was controlled within 20 Pa.

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 11 measuring thermocouples. All above thermocouples were used to measure the temperature rise of individual points, and the 1#~5# thermocouples were also used to calculate the average temperature rise of the specimen. The thermocouple positions for unexposed surface were shown in 5.4.

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

4.5 Deflection Measurement

Handheld laser rangefinders were provided to determine a history of all significant deflection of the test specimen during the test. One deflection measurement was made at the centre of the test specimen. Additional measurements were made at mid-height at $\frac{1}{4}$ and $\frac{3}{4}$ of the width.



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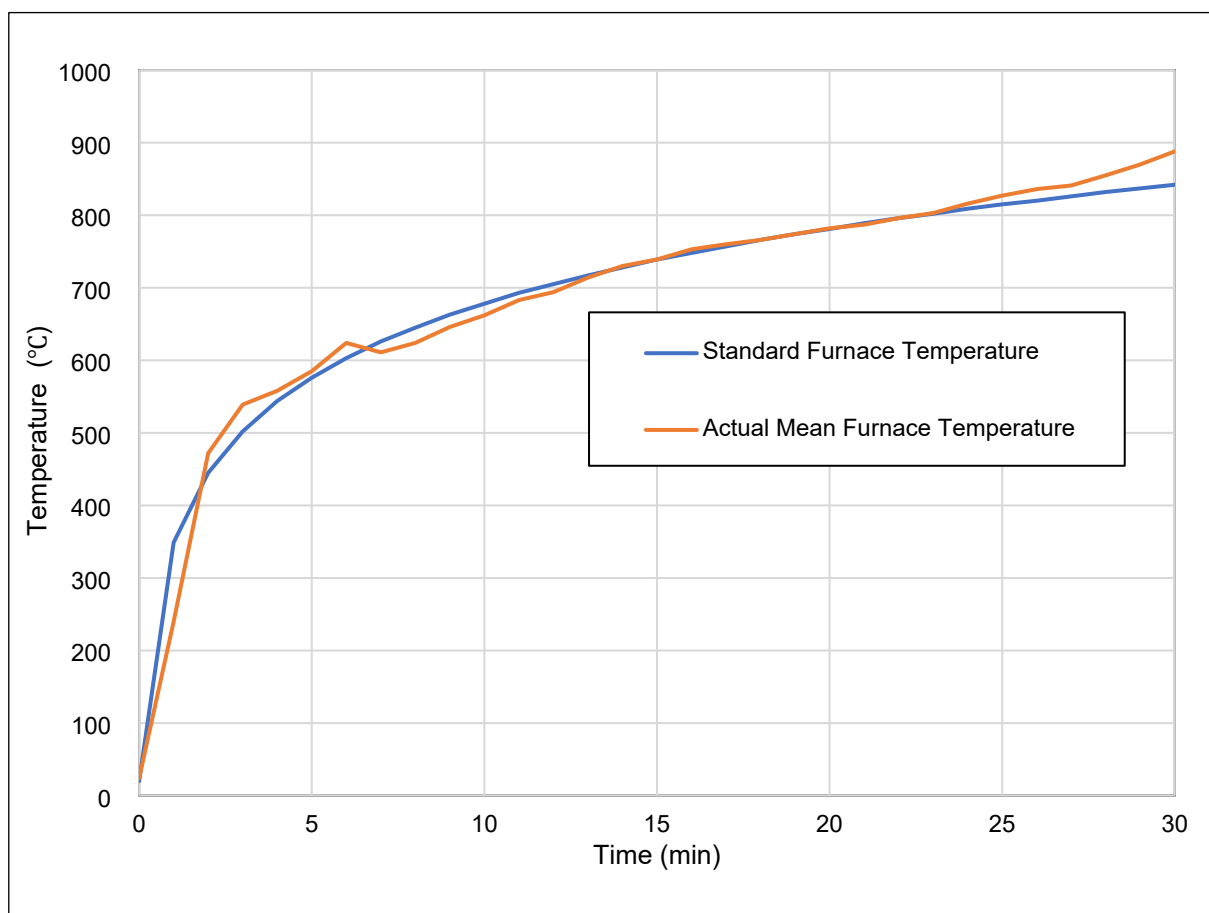
5. TEST DATA AND OBSERVATION

5.1 Condition

The ambient air temperature in the vicinity of the test construction was 23.6 °C at the start of the test with variation of +0.0 °C 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 (°C)	Actual Furnace Average Temperature (°C)	Deviation
0	20	24	-
1	349	240	-28.6%
2	445	472	-16.2%
3	502	539	-5.9%
4	544	558	-2.3%
5	576	585	-1.1%
6	603	624	-0.3%
7	626	611	-0.2%
8	645	624	-0.6%
9	663	646	-0.9%
10	678	662	-1.1%
11	693	683	-1.2%
12	705	694	-1.2%
13	717	714	-1.2%
14	728	730	-1.1%
15	739	739	-1.0%
16	748	753	-0.9%
17	757	760	-0.8%
18	766	766	-0.7%
19	774	774	-0.7%
20	781	782	-0.7%
21	789	787	-0.6%
22	796	796	-0.6%
23	802	803	-0.6%
24	809	816	-0.5%
25	815	827	-0.4%
26	820	836	-0.3%
27	826	841	-0.2%
28	832	855	-0.1%
29	837	870	0.0%
30	842	888	0.2%



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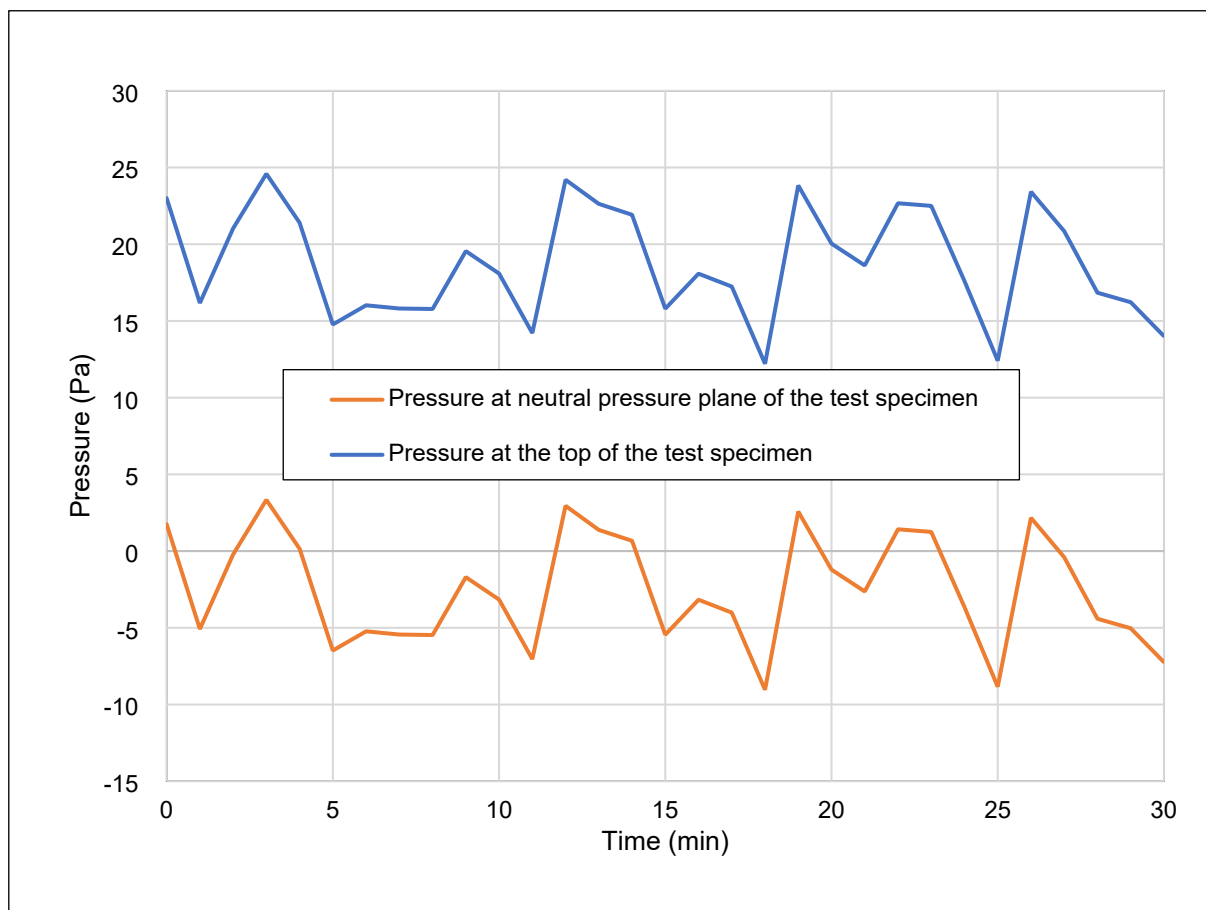
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5.3 Furnace Pressure Record

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



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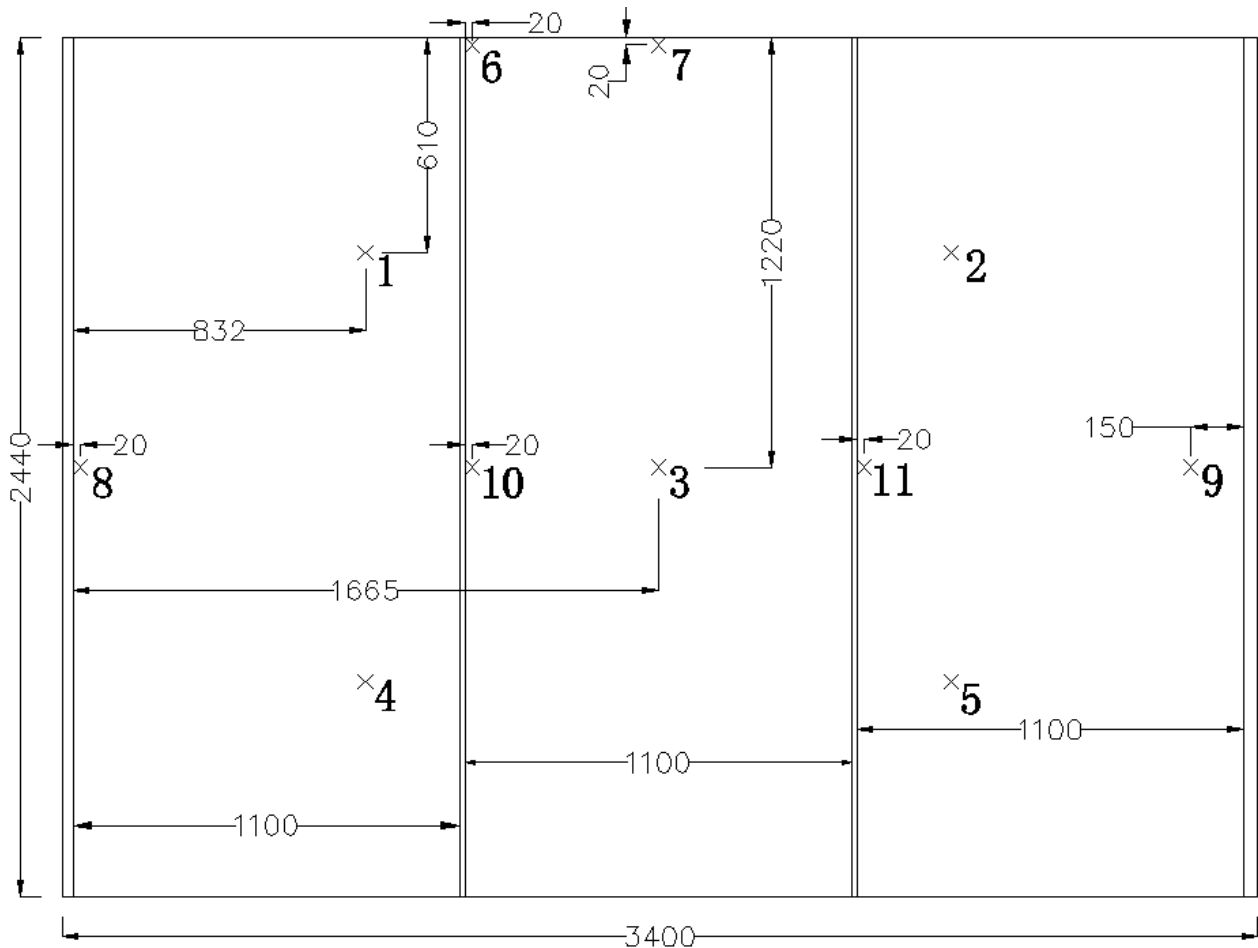
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5.4 Unexposed Surface Temperatures Record

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

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



x - Positions of Thermocouples



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The unexposed surface temperatures were shown on the table below:

Time (min)	Temperature (°C)												
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	11#	Mean Rise	Max Rise
0	25	25	25	24	24	24	24	24	25	25	25	0	0
1	25	25	25	24	24	24	24	24	25	25	25	0	0
2	25	25	25	24	24	25	24	24	25	25	25	0	0
3	25	25	24	24	24	24	24	24	25	25	25	-1	0
4	25	25	25	24	24	25	24	24	25	25	25	0	0
5	25	25	25	24	24	24	24	24	25	25	25	0	0
6	25	25	25	24	24	25	24	24	25	25	25	0	0
7	25	25	25	24	24	25	24	24	25	25	25	0	0
8	25	25	24	24	24	25	24	24	25	25	25	-1	0
9	25	25	25	24	24	26	24	24	25	25	25	0	1
10	25	25	24	24	24	28	24	24	25	25	25	-1	3
11	25	25	24	24	24	32	25	24	25	25	25	-1	7
12	25	25	24	24	24	37	28	24	25	25	25	-1	12
13	25	25	25	24	24	43	31	24	25	25	25	0	18
14	25	25	25	24	24	49	36	24	25	25	25	0	24
15	25	25	25	24	24	52	39	24	25	25	25	0	27
16	25	25	25	24	24	53	41	25	25	25	25	0	28
17	26	25	25	24	24	53	42	25	25	25	25	0	28
18	26	25	25	24	24	52	41	25	25	25	25	0	27
19	26	25	25	24	24	50	41	25	25	25	25	0	25
20	26	25	25	24	24	48	40	26	25	25	25	0	23
21	26	25	25	24	24	47	39	26	25	25	25	0	22
22	26	25	25	24	24	46	39	26	25	25	25	0	21
23	27	25	25	24	24	45	38	26	26	25	25	0	20
24	27	26	25	24	24	44	38	26	26	25	25	0	19
25	27	26	25	24	24	43	37	26	26	25	25	0	18
26	27	26	25	24	24	42	37	27	26	25	25	0	17
27	27	26	25	24	24	42	37	27	26	25	25	0	17
28	27	26	25	24	24	41	37	27	26	25	25	0	16
29	27	26	25	24	24	41	37	27	26	25	25	0	16
30	27	26	25	24	24	41	36	27	27	25	25	0	16



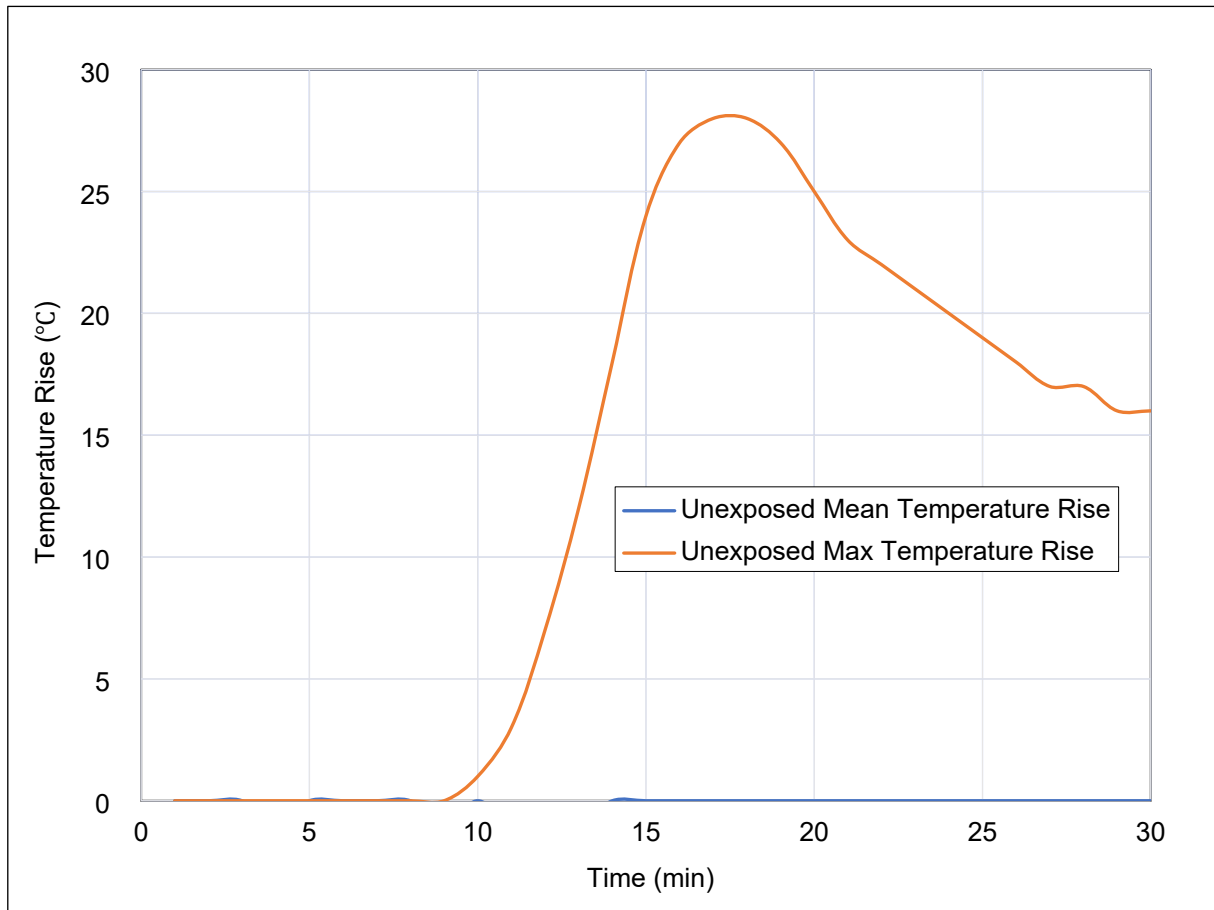
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The unexposed face temperature rise/time curves were shown in the figure below.



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5.5 Observations

Time		All observations were from the unexposed face unless noted otherwise
min	sec	
00	00	Furnace fired and test was started.
10	00	The left side of the unexposed surface of the specimen is concave and deformed towards the inside of the furnace.
15	00	No other obvious phenomena occurred on the unexposed surface of the specimen.
30	00	The specimen was maintaining its integrity. The test was discontinued at the request of the sponsor.

5.6 Deflection

The horizontal deflection at following positions of the specimen was measured during the test (unit: mm).

Position \ Time (min)	0	5	10	15	20	25	30
centre of the test specimen	/	2	5	9	2	5	7
mid-height at $\frac{1}{4}$ of the width	/	18	19	12	16	19	20
mid-height at $\frac{3}{4}$ of the width	/	-17	8	4	-1	-6	3

A positive value indicates that the sample is deformed into the furnace.



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6. PERFORMANCE CRITERIA

The performance of the sample was assessed against the criteria for integrity and insulation in accordance with 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 °C, or
- b) increase at any location (including the roving thermocouple) above the initial average temperature by more than 180 °C.

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 1363-1:2020 and EN 1364-1:2015.

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 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.

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, Prefabricated house walls, was classified to be:

EI 30 (i→o)

Where, “i” referring to inside and “o” to outside the wall, and EI 30 (i→o) indicates the specimen was capable of providing 30 min integrity and thermal insulation performance from the inside 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.



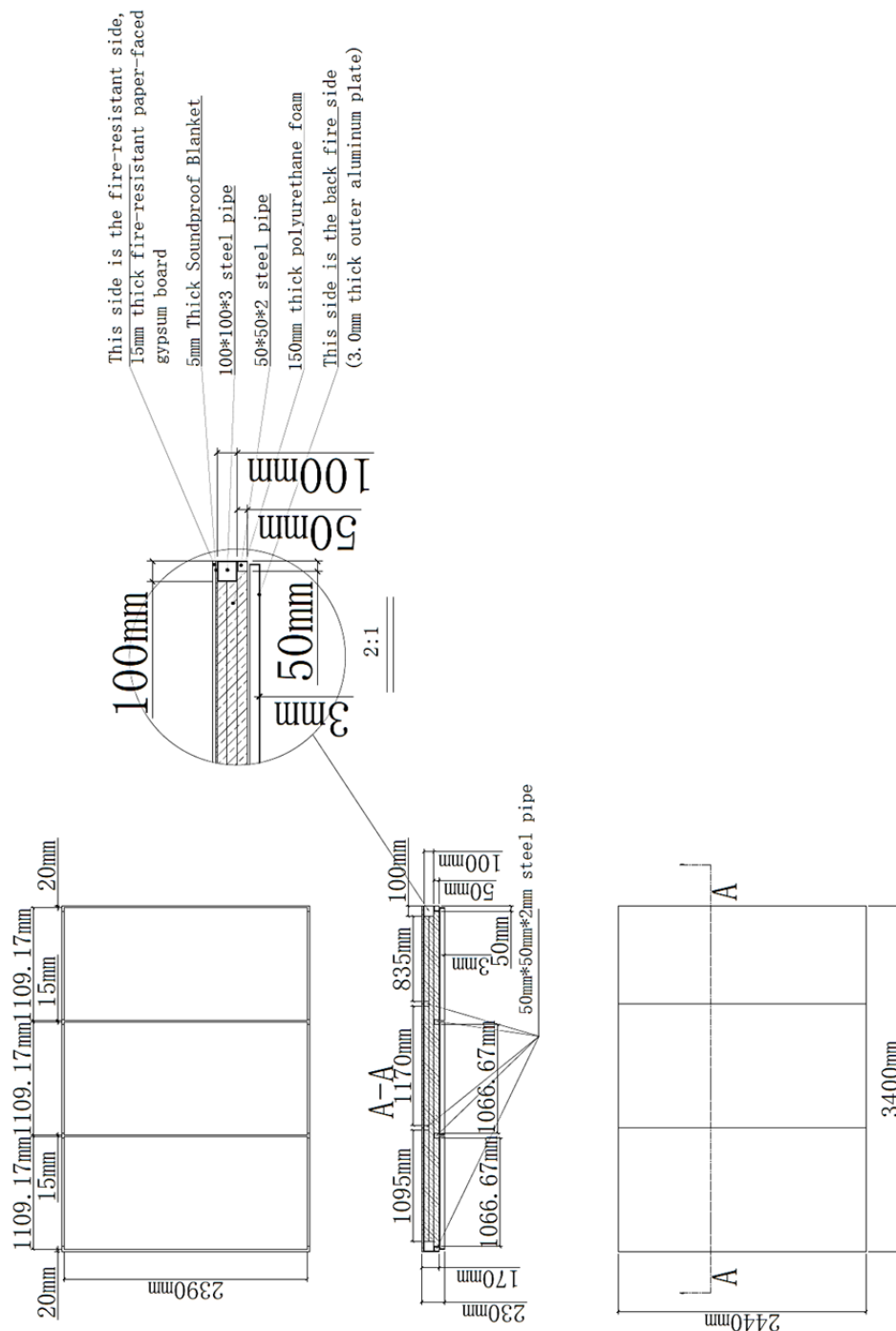
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APPENDIX 1 - DRAWINGS



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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 10 minutes of testing



The unexposed side after 25 minutes of testing



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The unexposed side after 30 minutes of testing



The unexposed side after the test



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The exposed side after the test

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End of Report



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