

## TEST REPORT

No. : GZIN2306000256CM01\_EN

Date : 2023-06-27

Page: 1 of 22

scan to see the report



GZIN2306000256CM01

CUSTOMER NAME: JASON PLASTERBOARD(HUIZHOU)COMPANY LTD.,  
ADDRESS: BEACH IUDUSTRIAL PARK,HUIDONG  
COUNTRY,HUIZHOU,P.R.CHINA

Sample Name : Jason resistance partition system

Product Specification : HJ12.5\*2+QC75+HJ12.5\*2

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : 2023-06-01

Testing Period : 2023-06-01 ~ 2023-06-27

Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. Guangzhou  
Branch.

Toby Yang  
Authorized signatory



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### Test Requested:

Fire Resistance Test of the Non-loadbearing Sample, in accordance with BS 476-20:1987+AC:2014 Incorporating Amendment No.1, Fire tests on building materials and structures — Part 20: Method for determination of the fire resistance of elements of construction (general principles) and BS 476-22:1987+AC:2014 Fire tests on building materials and structures — Part 22: Methods for determination of the fire resistance of non-loadbearing elements of construction, Clause 5: Determination of the fire resistance of partitions.

Test Results: -- See attached sheet --



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## 1. INTRODUCTION

Determine the fire resistance performance of Jason resistance partition system, when tested in accordance with BS 476-20:1987+AC:2014 Incorporating Amendment No.1, Fire tests on building materials and structures - Part 20: Method for determination of the fire resistance of elements of construction (general principles) and BS 476-22:1987+AC:2014 Fire tests on building materials and structures - Part 22: Methods for determination of the fire resistance of non-loadbearing elements of construction.

The specified side of partition sample was exposed to elevated temperatures as dictated by the BS 476-20 time-temperature curve for a period of 120 minutes.

The test was conducted on Jun.06, 2023.

## 2. SUMMARY

The performance of the sample was judged against the criteria for integrity and insulation as specified in Clause 10 Performance criteria of BS 476-20: 1987+AC:2014 Incorporating Amendment No. 1. Fire tests on building materials and structures — Part 20: Method for determination of the fire resistance of elements of construction (general principles), and the results obtained were as follows:

Integrity	Insulation
≥ 120 minutes	≥ 120 minutes

The test was terminated after a period of 121 minutes as requested by the client.

## 3. TEST SAMPLE AND INSTALLATION

The overall size of the sample was 3050mm high x 3050mm wide x 125mm thick. Starting from the unexposed surface, the structure of the sample consists of two layers of 12.5mm thick Jason high-strength gypsum board+ JASON C-Stud QC75mm (fill the C-stud with 50mm thick rock wool) + 2 layers of 12.5mm thick Jason high-strength gypsum board.

The sample was installed in the red brick wall, and gaps between the sample and wall were filled with ceramic fibre. The specified side was exposed to a time-temperature curve as dictated by the BS 476-20 for a period of 120 minutes under non-loaded conditions. The sample details were shown in figure 1.



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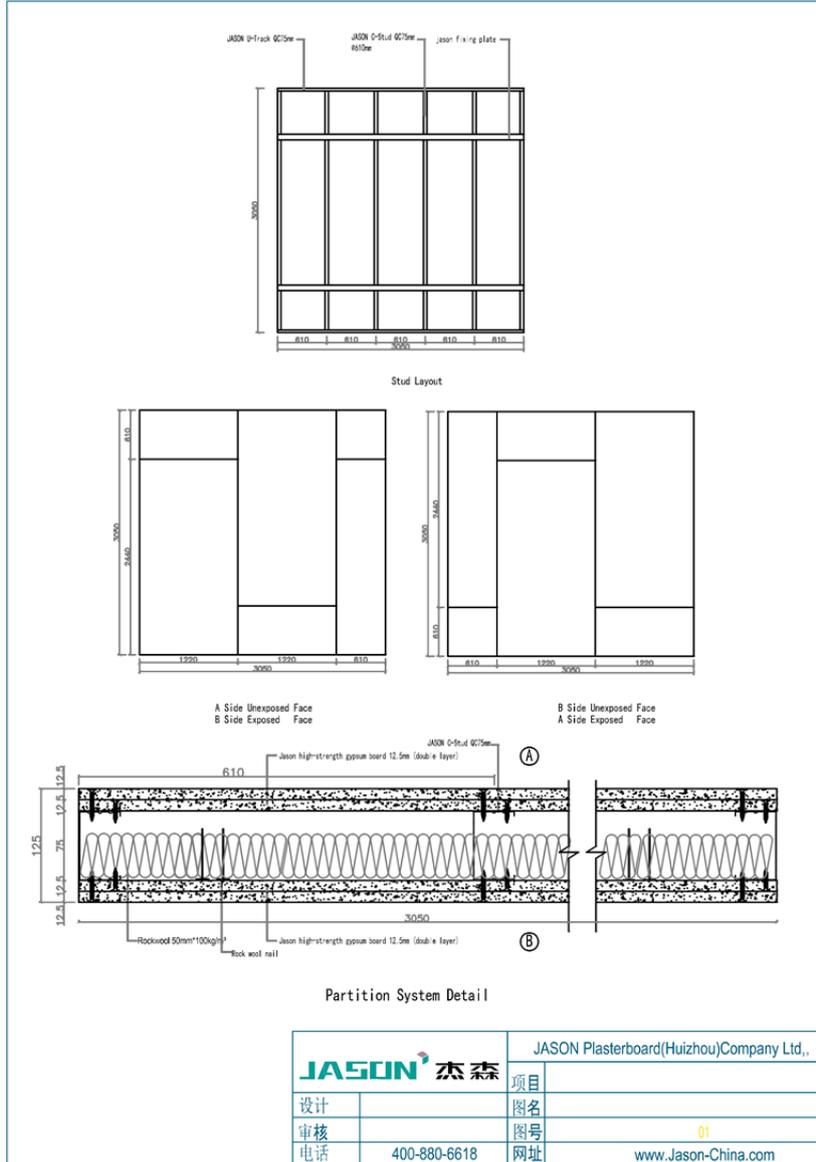
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Figure 1 - Details of Sample



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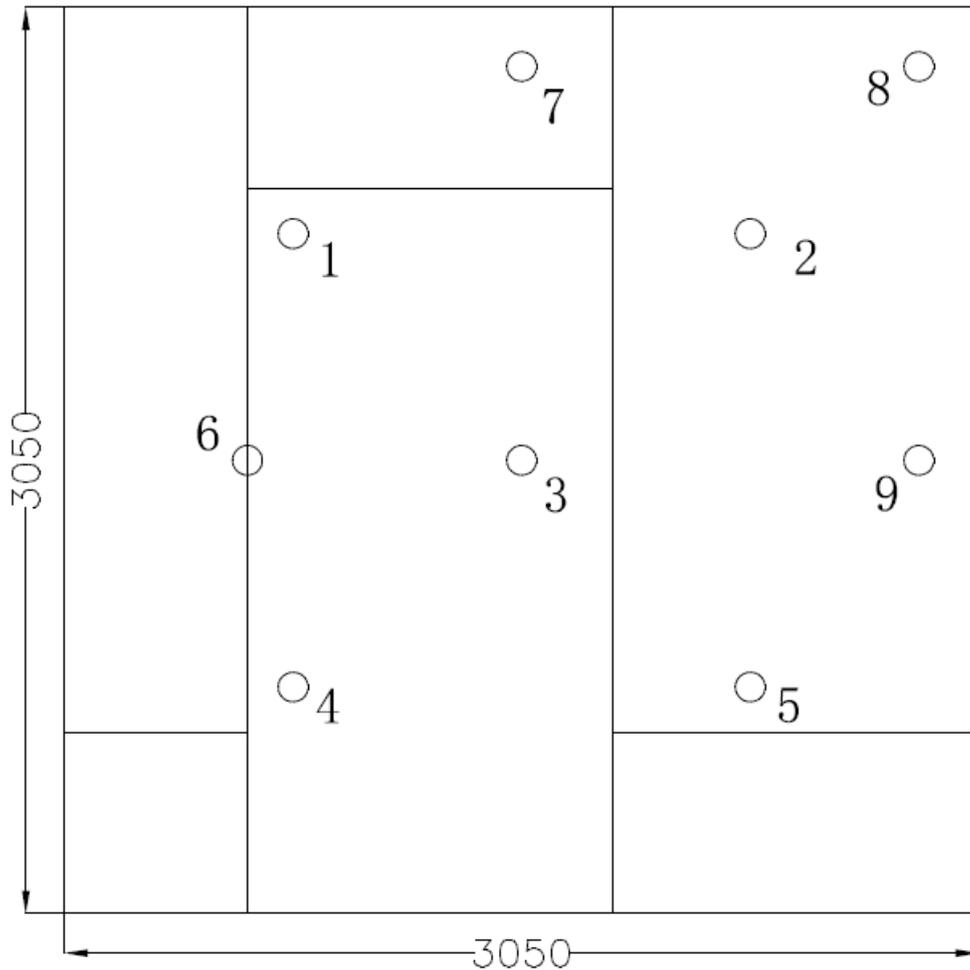
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Figure 2 - Thermocouple positions diagrams (Unit: mm)



Remark: Thermocouples No. 1, 2, 4, 5 at the center of each quarter section of the test sample, thermocouple No.3 at the center of the test sample.

The mean temperature rise was calculated using thermocouples No.1, 2, 3, 4, 5. The maximum temperature rise was calculated using all thermocouples.



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### 4. TEST PROCEDURE

The sample was tested under a non-loadbearing construction. The test was conducted in accordance with Clause 5 of BS 476: Part 22: 1987+AC:2014, Methods for determination of the fire resistance of non-loadbearing elements of construction. This test report should be read in conjunction with that Standard and with BS 476: Part 20: 1987+AC:2014, Method for determination of the fire resistance of elements of construction (general principles).

The furnace was controlled so that the mean furnace temperature, deviation from the standard furnace temperature and uniformity of temperature distribution complied with the requirement of BS 476: Part 20. Eight furnace thermocouples were used to determine the mean furnace temperature.

Thermocouples were provided to monitor the unexposed surface of the sample and the output of all instrumentation was recorded at no less than one minute intervals as follows:

The locations and numbers of the unexposed surface thermocouples was shown in Figure 2.

A roving thermocouple was available to measure temperatures on the unexposed surface of the sample at any position which might appear to be hotter than the temperatures indicated by the fixed thermocouples.

Cotton pads and gap gauges were available to evaluate the compliance with the integrity criterion of the sample to hot gases. The occurrence of sustaining flaming on the unexposed surface was also checked to determine compliance with the integrity criterion.

After the first five minutes of the test, the furnace atmospheric pressure was controlled so that it complied with the requirements of BS 476: Part 20 and the pressure differential relative to the laboratory atmosphere at the top of a vertical test construction was 20(+0,-2) Pa.

During the test, the temperatures, pressures and deflection were continuously monitored and recorded them.



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### 5. TEST RESULTS

The following data were recorded during the test:

a) The actual mean furnace temperature/time curve as well as the standard furnace temperature/ time curve, which were shown in Figure 3. The mean temperatures recorded within the furnace were shown in Table 1.

b) The mean and maximum temperature rise of the unexposed surface of the sample was shown in Figure 4. The individual temperatures recorded on the unexposed surface of the sample were shown in Table 2.

c) A summary of the observations made on the general behavior of the sample was given in Table 3.

The ambient air temperature in the vicinity of the test construction was 29.2°C at the start of the test with variation of +2.2°C during the test.



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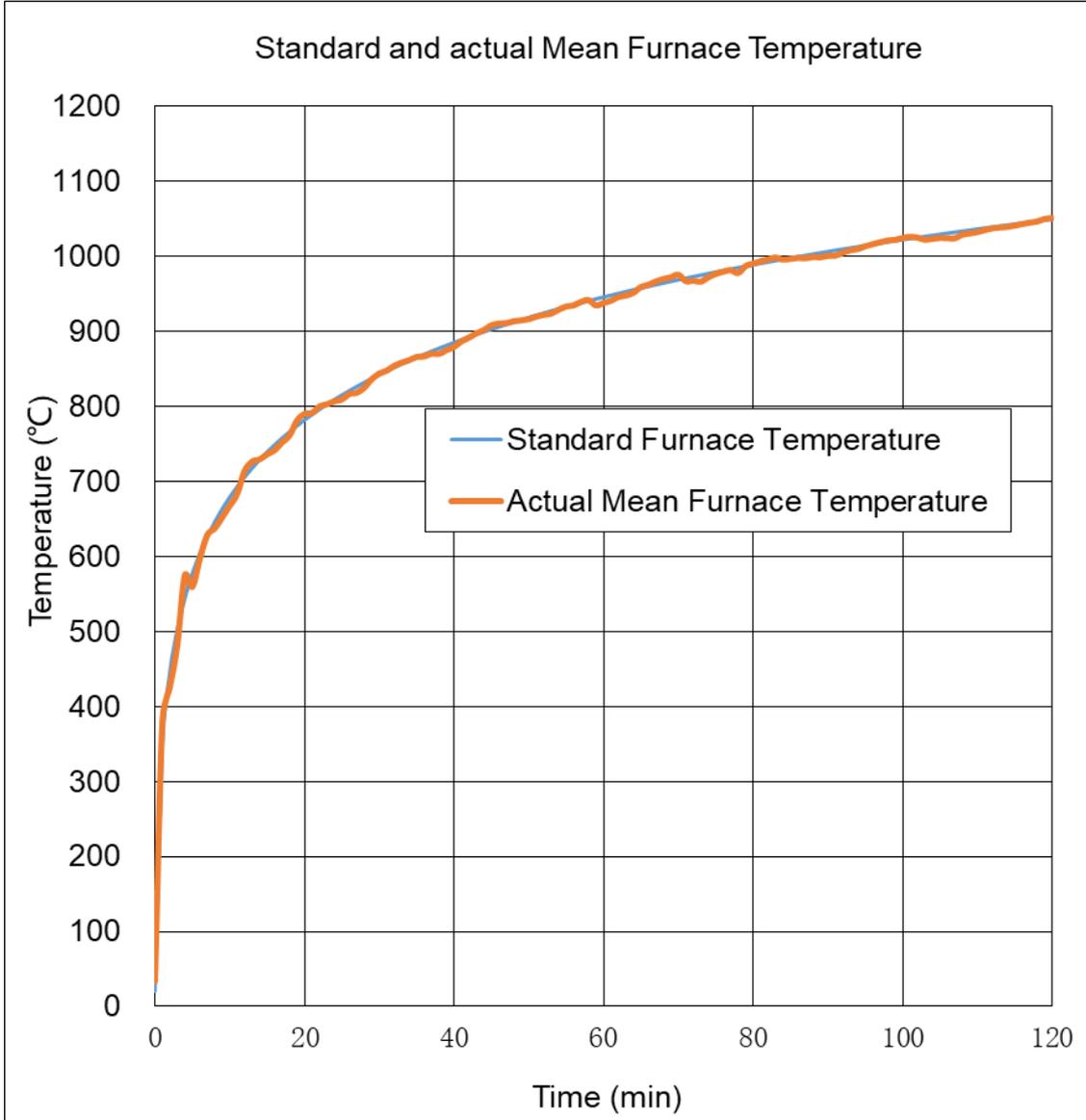
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Figure 3 - Standard and actual Mean Furnace Temperature/Time Curve



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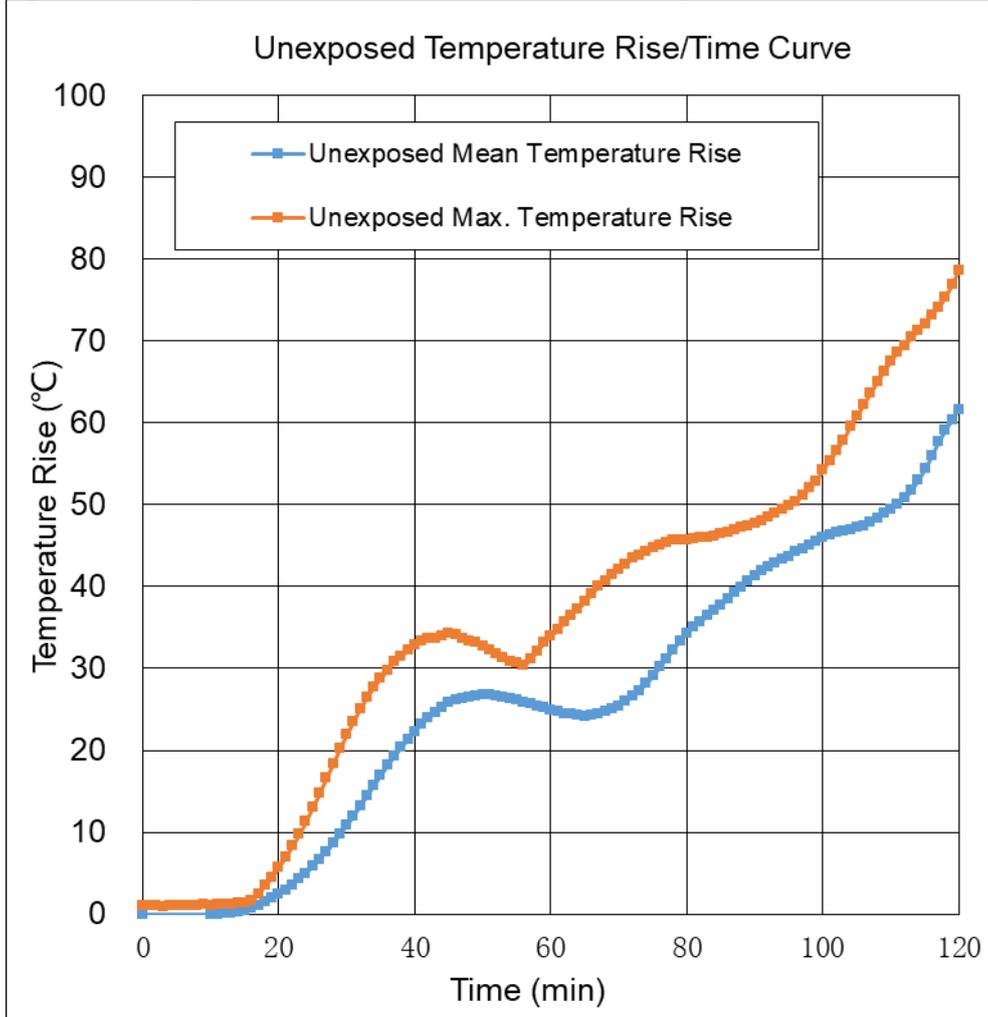
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Figure 4 – Unexposed Surface Mean and Maximum Temperature Rise / Time Curve



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Table 1 Average Temperatures Recorded within the Furnace

Time (min)	BS 476-20 Std Average (°C)	Furnace Average (°C)	Error (%)	Time (min)	BS 476-20 Std Average (°C)	Furnace Average (°C)	Error (%)
0	20.0	33.2	-	32	851.4	854.9	0.0%
1	349.2	380.1	11.9%	33	856.0	859.3	0.0%
2	444.5	426.3	4.9%	34	860.5	862.5	0.0%
3	502.3	483.4	0.9%	35	864.8	866.8	0.0%
4	543.9	575.2	1.0%	36	869.0	867.5	0.0%
5	576.4	559.8	1.1%	37	873.1	871.1	0.0%
6	603.1	597.1	0.4%	38	877.1	871.0	0.0%
7	625.8	628.8	0.3%	39	881.0	876.0	0.0%
8	645.5	638.0	0.2%	40	884.7	880.1	0.0%
9	662.8	652.7	0.0%	41	888.4	887.7	-0.1%
10	678.4	668.1	-0.2%	42	892.0	892.6	-0.1%
11	692.5	684.2	-0.3%	43	895.5	898.5	0.0%
12	705.4	714.7	-0.3%	44	899.0	902.7	0.0%
13	717.3	727.0	-0.1%	45	902.3	909.1	0.0%
14	728.3	730.0	-0.1%	46	905.6	911.4	0.0%
15	738.6	736.8	0.0%	47	908.8	912.0	0.0%
16	748.2	742.3	-0.1%	48	912.0	914.6	0.0%
17	757.2	752.6	-0.1%	49	915.1	915.6	0.0%
18	765.7	762.1	-0.2%	50	918.1	917.3	0.0%
19	773.7	781.8	-0.1%	51	921.0	920.7	0.0%
20	781.4	790.9	-0.1%	52	923.9	923.0	0.0%
21	788.6	791.9	0.0%	53	926.8	924.7	0.0%
22	795.6	800.7	0.0%	54	929.6	929.9	0.0%
23	802.2	803.6	0.0%	55	932.3	934.1	0.0%
24	808.5	807.6	0.0%	56	935.0	935.7	0.0%
25	814.6	810.1	0.0%	57	937.7	940.4	0.0%
26	820.5	817.3	0.0%	58	940.3	942.6	0.0%
27	826.1	819.1	0.0%	59	942.8	935.6	0.0%
28	831.5	825.8	-0.1%	60	945.3	938.8	0.0%
29	836.7	837.2	-0.1%	61	947.8	941.9	0.0%
30	841.8	844.5	-0.1%	62	950.2	947.0	0.0%
31	846.7	848.5	0.0%	63	952.6	948.8	0.0%
64	955.0	952.5	0.0%	93	1010.9	1009.2	0.0%
65	957.3	960.1	0.0%	94	1012.5	1010.8	0.0%



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66	959.6	963.2	0.0%	95	1014.1	1014.5	0.0%
67	961.8	967.6	0.0%	96	1015.6	1017.3	0.0%
68	964.1	970.9	0.0%	97	1017.2	1020.0	0.0%
69	966.2	973.0	0.0%	98	1018.7	1022.3	0.0%
70	968.4	976.7	0.0%	99	1020.2	1023.2	0.0%
71	970.5	968.0	0.0%	100	1021.8	1025.6	0.0%
72	972.6	968.5	0.0%	101	1023.2	1027.3	0.0%
73	974.7	967.3	0.0%	102	1024.7	1026.1	0.0%
74	976.7	973.1	0.0%	103	1026.2	1023.3	0.0%
75	978.7	977.7	0.0%	104	1027.6	1024.6	0.0%
76	980.7	980.6	0.0%	105	1029.1	1025.6	0.0%
77	982.6	982.7	0.0%	106	1030.5	1025.4	0.0%
78	984.6	978.8	0.0%	107	1031.9	1025.2	0.0%
79	986.5	988.1	0.0%	108	1033.3	1030.2	0.0%
80	988.4	991.3	0.0%	109	1034.6	1031.7	0.0%
81	990.2	994.6	0.0%	110	1036.0	1033.5	0.0%
82	992.1	996.8	0.0%	111	1037.4	1036.1	0.0%
83	993.9	999.6	0.0%	112	1038.7	1038.5	0.0%
84	995.7	996.8	0.0%	113	1040.0	1039.6	0.0%
85	997.4	997.7	0.0%	114	1041.4	1040.4	0.0%
86	999.2	999.0	0.0%	115	1042.7	1042.2	0.0%
87	1000.9	998.5	0.0%	116	1044.0	1044.2	0.0%
88	1002.6	1000.2	0.0%	117	1045.3	1046.1	0.0%
89	1004.3	999.9	0.0%	118	1046.5	1047.6	0.0%
90	1006.0	1001.8	0.0%	119	1047.8	1051.1	0.0%
91	1007.6	1002.0	0.0%	120	1049.0	1052.2	0.0%
92	1009.3	1005.8	0.0%	-	-	-	-



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Table 2 Individual Temperatures on the Unexposed Surface of the Sample

Time (min)	Thermocouples temperatures (°C)								
	1#	2#	3#	4#	5#	6#	7#	8#	9#
0	31.8	31.2	31.0	30.2	30.2	30.6	30.7	31.1	31.9
1	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
2	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
3	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.8
4	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
5	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
6	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
7	31.7	31.1	30.9	30.2	30.1	30.5	30.7	31.1	31.9
8	31.7	31.2	30.9	30.2	30.1	30.5	30.7	31.1	31.9
9	31.7	31.2	30.9	30.2	30.1	30.5	30.7	31.1	32.0
10	31.8	31.2	31.0	30.3	30.2	30.6	30.7	31.1	31.9
11	31.8	31.2	31.0	30.3	30.2	30.6	30.7	31.2	32.0
12	31.8	31.3	31.0	30.4	30.2	30.7	30.8	31.2	32.0
13	31.9	31.3	31.1	30.5	30.3	30.8	31.0	31.4	32.1
14	32.1	31.5	31.2	30.7	30.4	31.0	31.4	31.5	32.2
15	32.3	31.6	31.4	30.9	30.5	31.2	31.9	31.8	32.3
16	32.5	31.9	31.6	31.3	30.7	31.5	32.5	32.2	32.6
17	32.9	32.2	32.0	31.7	31.0	31.9	33.4	32.8	32.9
18	33.3	32.6	32.4	32.1	31.3	32.3	34.4	33.4	33.2
19	33.8	33.0	32.9	32.5	31.7	32.8	35.4	34.0	33.5
20	34.4	33.5	33.4	33.0	32.2	33.3	36.6	34.8	34.1
21	35.0	34.1	34.0	33.6	32.6	33.9	37.8	35.8	34.5
22	35.7	34.7	34.7	34.1	33.1	34.5	39.2	36.7	35.1
23	36.6	35.3	35.4	34.8	33.7	35.2	40.6	37.8	35.7
24	37.5	36.0	36.1	35.4	34.3	35.9	42.2	39.0	36.4
25	38.6	36.8	36.9	36.1	35.0	36.6	43.9	40.4	37.0
26	39.8	37.7	37.8	36.9	35.7	37.3	45.6	42.0	37.8
27	41.1	38.6	38.8	37.6	36.5	38.2	47.5	43.5	38.7
28	42.4	39.6	39.7	38.5	37.3	39.0	49.2	45.2	39.5
29	43.9	40.7	40.8	39.4	38.3	39.8	51.1	46.9	40.7
30	45.4	41.8	41.9	40.3	39.2	40.7	52.8	48.8	41.6
31	47.0	42.9	43.0	41.2	40.2	41.5	54.4	50.5	43.0
32	48.7	44.2	44.2	42.2	41.3	42.5	56.0	52.2	44.4
33	50.2	45.3	45.4	43.4	42.5	43.5	57.4	53.9	45.7



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Time (min)	Thermocouples temperatures (°C)								
	1#	2#	3#	4#	5#	6#	7#	8#	9#
34	51.7	46.5	46.6	44.5	43.6	44.5	58.6	55.4	47.4
35	53.1	47.8	47.7	45.6	44.9	45.4	59.7	56.8	49.2
36	54.6	48.9	48.8	46.8	46.0	46.4	60.7	58.0	50.8
37	55.8	50.1	49.8	47.9	47.2	47.2	61.7	59.2	52.7
38	57.0	51.0	50.8	49.0	48.3	48.1	62.4	60.1	54.3
39	58.1	52.0	51.7	50.0	49.4	48.8	63.1	60.7	55.6
40	59.0	52.9	52.5	51.0	50.4	49.8	63.8	61.5	56.9
41	59.9	53.8	53.4	52.1	51.4	50.6	64.2	62.0	58.0
42	60.5	54.5	54.0	52.9	52.2	51.3	64.5	62.5	59.0
43	61.0	55.1	54.6	53.7	53.0	51.9	64.6	63.0	59.8
44	61.5	55.8	55.3	54.4	53.8	52.6	64.9	63.3	60.5
45	61.8	56.4	55.8	55.1	54.6	53.4	65.1	63.5	61.1
46	62.0	56.8	56.2	55.4	55.1	54.1	65.0	63.5	61.7
47	62.1	56.9	56.3	55.6	55.4	54.7	64.6	63.4	61.9
48	62.1	57.2	56.3	55.7	55.8	55.1	64.3	63.4	62.2
49	62.0	57.3	56.4	55.8	56.1	55.7	64.0	63.3	62.3
50	62.0	57.5	56.4	55.9	56.2	56.5	63.6	63.3	62.3
51	61.8	57.6	56.4	56.0	56.5	57.3	63.1	63.0	62.4
52	61.6	57.5	56.3	55.8	56.4	57.9	62.7	62.7	62.3
53	61.3	57.4	56.1	55.7	56.4	58.7	62.1	62.2	62.1
54	61.0	57.2	55.9	55.5	56.3	59.5	61.6	61.8	61.8
55	60.8	57.1	55.7	55.4	56.1	60.3	61.0	61.5	61.4
56	60.4	56.8	55.5	55.2	55.8	61.2	60.5	61.2	61.2
57	60.1	56.6	55.3	55.0	55.6	62.0	59.9	60.8	60.9
58	59.8	56.4	55.1	54.9	55.5	63.0	59.4	60.3	60.6
59	59.5	56.2	54.9	54.7	55.2	64.0	59.0	60.0	60.4
60	59.3	55.8	54.7	54.6	54.8	64.8	58.5	59.6	60.0
61	59.0	55.4	54.4	54.5	54.6	65.6	58.2	59.2	59.5
62	58.8	55.1	54.3	54.4	54.4	66.5	57.9	58.7	59.2
63	58.6	54.9	54.2	54.5	54.1	67.4	57.8	58.3	58.7
64	58.6	54.6	54.0	54.7	53.9	68.2	57.7	58.0	58.4
65	58.5	54.4	54.0	54.8	53.7	69.0	57.7	57.6	57.9
66	58.6	54.4	54.2	55.1	53.7	70.0	57.8	57.4	57.7



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Time (min)	Thermocouples temperatures (°C)								
	1#	2#	3#	4#	5#	6#	7#	8#	9#
67	58.8	54.4	54.2	55.5	53.7	70.9	58.0	57.2	57.3
68	59.0	54.6	54.5	56.1	53.8	71.6	58.2	57.1	57.1
69	59.3	54.9	54.7	56.7	54.0	72.4	58.6	57.1	57.0
70	59.7	55.3	55.1	57.5	54.1	73.0	59.0	57.1	56.8
71	60.2	55.9	55.5	58.3	54.4	73.6	59.4	57.0	56.8
72	60.8	56.6	55.9	59.2	54.8	74.3	60.0	57.2	56.7
73	61.4	57.7	56.5	60.1	55.3	74.7	60.6	57.3	56.6
74	62.1	59.0	57.0	61.0	55.9	75.1	61.2	57.5	56.8
75	62.8	60.8	57.6	61.9	56.6	75.6	62.0	57.8	57.1
76	63.5	62.9	58.4	62.9	57.5	76.0	62.8	58.1	57.3
77	64.3	65.1	59.1	63.7	58.4	76.2	63.4	58.5	57.7
78	65.0	67.1	60.0	64.6	59.3	76.5	64.2	59.0	58.1
79	65.7	68.7	60.8	65.8	60.3	76.6	64.9	59.5	58.6
80	66.3	69.9	61.5	66.8	61.2	76.6	65.6	60.1	59.2
81	67.0	70.8	62.3	67.8	62.1	76.7	66.2	60.8	59.9
82	67.4	71.3	62.8	68.8	62.9	76.8	66.8	61.5	60.7
83	68.0	71.8	63.3	69.7	63.7	76.9	67.4	62.2	61.4
84	68.5	72.2	64.0	70.5	64.4	77.0	68.0	62.8	62.1
85	69.0	72.5	65.2	71.1	65.3	77.4	68.6	63.4	63.2
86	69.7	72.7	66.6	71.9	65.9	77.5	69.2	63.9	63.9
87	70.4	73.0	68.3	72.4	66.7	77.8	69.8	64.7	64.9
88	71.0	73.2	69.8	72.8	67.5	78.1	70.4	65.2	65.6
89	71.8	73.4	71.4	73.2	68.1	78.3	71.1	65.7	66.5
90	72.6	73.6	72.6	73.6	68.7	78.6	71.7	66.2	67.4
91	73.3	73.8	73.6	73.8	69.3	78.9	72.3	66.8	68.4
92	74.0	74.0	74.4	74.1	69.7	79.3	73.0	67.2	69.1
93	74.7	74.4	75.0	74.3	70.3	79.8	73.5	67.6	70.1
94	75.3	74.9	75.3	74.4	70.8	80.3	74.0	68.0	70.7
95	75.9	75.5	75.6	74.6	71.4	80.7	74.5	68.4	71.4
96	76.3	76.2	76.1	74.8	72.0	81.3	75.0	68.9	71.9
97	76.6	77.0	76.4	75.2	72.4	82.0	75.3	69.2	72.3
98	76.9	77.7	76.7	75.6	73.1	82.9	75.7	69.4	72.9
99	77.1	78.5	77.0	75.9	73.7	83.8	76.1	69.6	73.2



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Time (min)	Thermocouples temperatures (°C)								
	1#	2#	3#	4#	5#	6#	7#	8#	9#
100	77.4	79.2	77.3	76.3	74.1	85.1	76.4	69.8	73.4
101	77.6	79.8	77.3	76.7	74.4	86.3	76.6	70.2	73.8
102	77.8	80.4	77.2	77.2	74.7	87.5	76.9	70.4	74.0
103	77.9	80.8	77.1	77.6	74.8	88.8	77.2	70.6	74.2
104	78.1	81.3	76.9	78.1	75.0	90.4	77.3	70.8	74.5
105	78.2	81.8	76.8	78.6	75.0	91.7	77.6	71.1	74.7
106	78.3	82.1	76.6	79.3	75.2	93.1	78.1	71.1	74.8
107	78.4	82.5	76.7	80.4	75.8	94.5	78.4	71.3	75.2
108	78.6	82.8	76.8	82.1	76.1	95.9	78.9	71.7	75.4
109	78.8	82.8	77.0	83.9	76.3	97.2	79.3	71.8	75.5
110	79.0	82.9	77.3	85.6	76.8	98.4	79.7	72.2	75.8
111	79.3	83.0	78.0	87.2	77.4	99.5	80.2	72.6	76.1
112	79.6	83.3	78.9	88.8	77.8	100.3	80.7	73.1	76.6
113	80.2	83.7	80.5	90.5	78.4	101.3	81.1	73.6	76.7
114	80.9	84.4	82.7	92.0	79.4	102.2	81.5	74.2	77.3
115	82.1	85.1	84.9	93.3	80.8	103.0	81.6	74.5	77.7
116	83.8	86.3	86.8	94.7	82.8	104.1	81.8	74.9	78.2
117	85.4	88.0	88.6	95.7	85.0	105.0	81.9	75.3	78.8
118	87.1	89.9	90.0	96.4	86.7	106.2	82.1	75.8	79.1
119	88.6	91.5	91.3	97.0	88.1	107.8	82.3	76.1	79.4
120	90.1	93.0	92.8	97.3	89.5	109.5	82.5	76.6	79.9



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Table 3 Observations Made during the Test

Time (min:sec)	Observations
00:00	Furnace fired and test was started.
30:00	A slight amount of smoke was released from the top of the sample.
60:00	The sample was dented and deformed towards the inside of the furnace. There was no obvious change in others.
90:00	There was no obvious change in others.
120:00	During the whole test, there was no opening or flame penetration on the unexposed surface of the sample, and the structure was intact. The sample maintained the integrity of the fire resistance.  The mean temperature rise on the unexposed face of the sample was less than 140°C.  The maximum temperature rise was less than 180°C. The sample maintained the insulation of the fire resistance.
121:00	Vertical test furnace was shut down and test was stopped.

Recording for deflection of the sample during the test

Time deflection (mm) Position					
	0min	30min	60min	90min	120min
Centre of the sample	0	2	46	42	10



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Table 3 Observations Made during the Test

Time (min:sec)	Observations
00:00	Furnace fired and test was started.
30:00	A slight amount of smoke was released from the top of the sample.
60:00	The sample was dented and deformed towards the inside of the furnace. There was no obvious change in others.
90:00	There was no obvious change in others.
120:00	During the whole test, there was no opening or flame penetration on the unexposed surface of the sample, and the structure was intact. The sample maintained the integrity of the fire resistance.  The mean temperature rise on the unexposed face of the sample was less than 140°C.  The maximum temperature rise was less than 180°C. The sample maintained the insulation of the fire resistance.
121:00	Vertical test furnace was shut down and test was stopped.

Recording for deflection of the sample during the test

Time deflection (mm)					
	0min	30min	60min	90min	120min
Position Centre of the sample	0	2	46	42	10



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The performance of the sample was judged against the criteria for integrity and insulation as specified in chapter 6 of this report (Clause 10 of BS 476-20), for vertical construction, and the sample satisfied the performance requirements for the following period:

Integrity	Insulation
≥ 120 minutes	≥ 120 minutes

The test was terminated after a period of 121 minutes as requested by the client.

### 8. 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 test results relate only to the sample tested. The fire resistance performance of sample of this design may change if different dimensions, different gaps, incorporating different components, or mounted within different wall construction.

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

SGS is not responsible for the authenticity, integrity and results of the information which provided by client and / or the validity of the conclusion.

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## APPENDIX - PHOTOGRAPHS



Photo 1: The unexposed face before the test



Photo 2: The exposed face before the test



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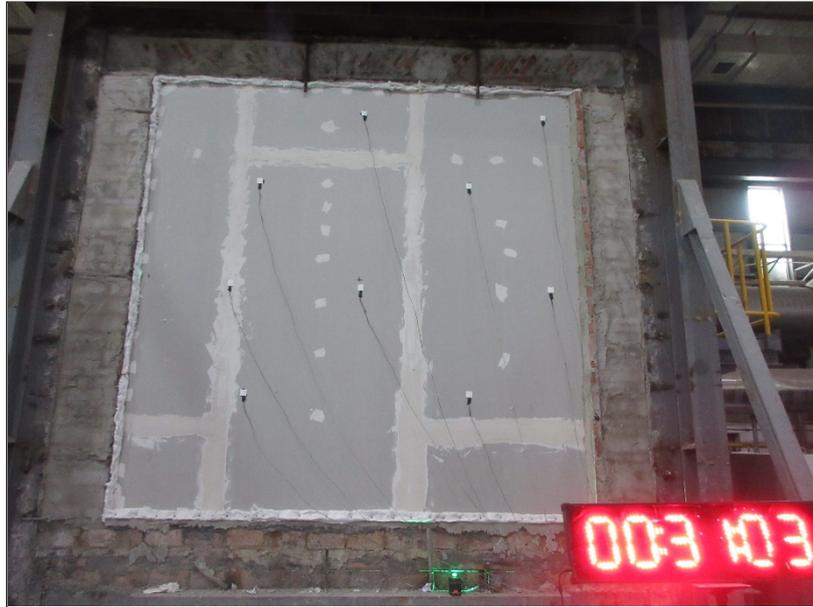


Photo 3: The unexposed face of sample  
(After test duration of 31 minutes)

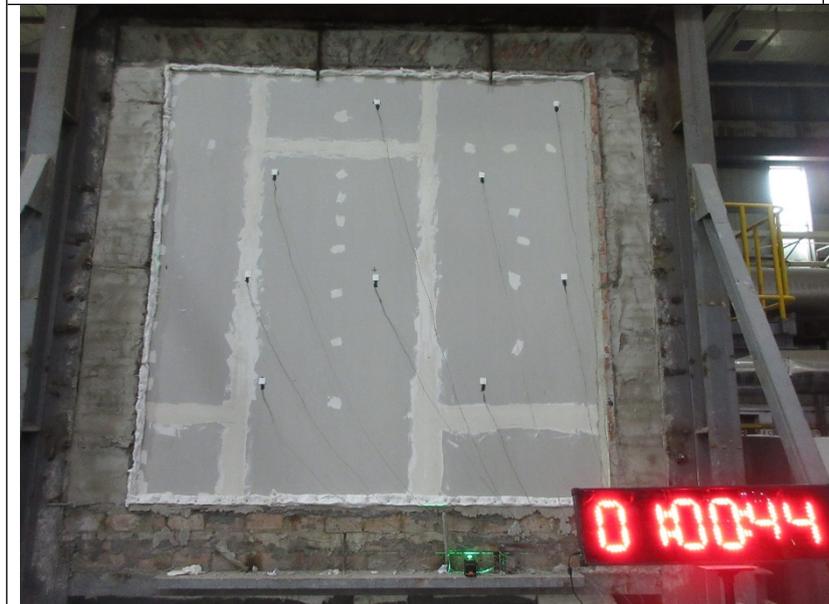


Photo 4: The unexposed face of sample  
(After test duration of 60 minutes)



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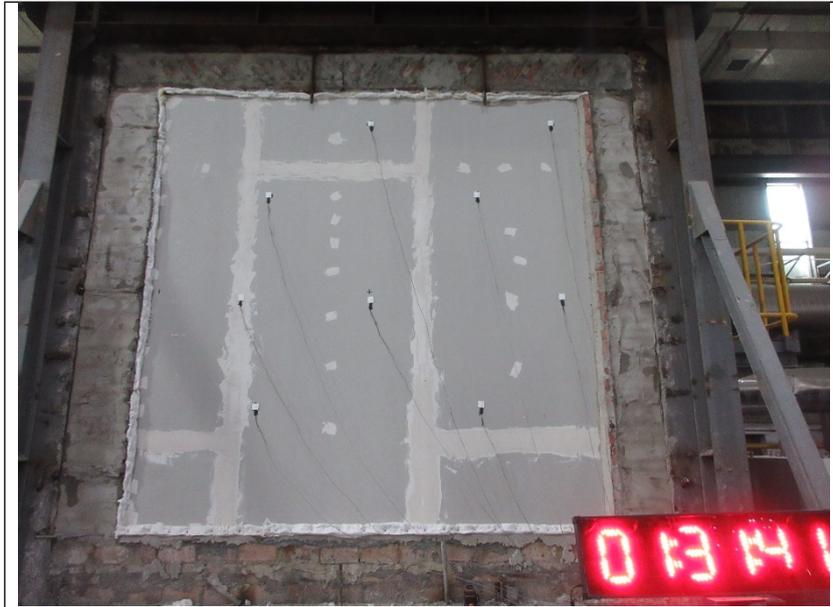


Photo 5: The unexposed face of sample  
(After test duration of 91 minutes)



Photo 6: The unexposed face of sample  
(After test duration of 120 minutes)



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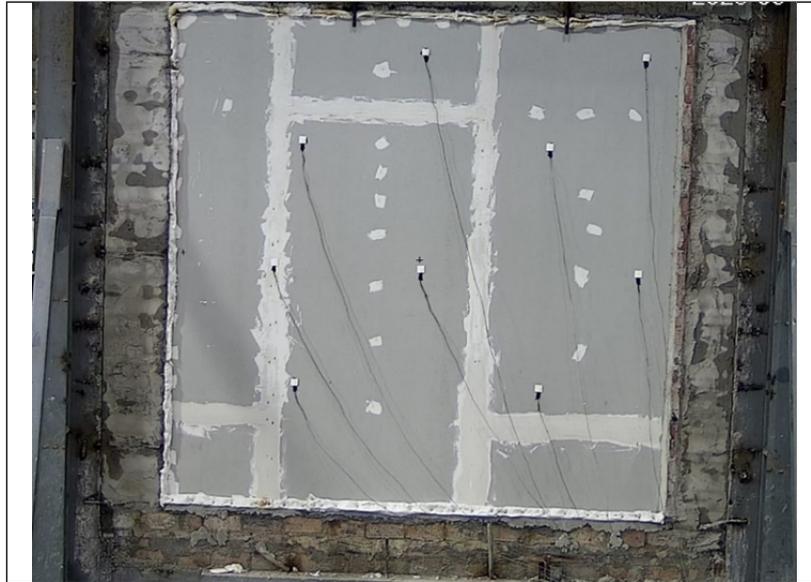


Photo 7: The unexposed face after the test



Photo 8: The exposed face after the test

SGS authenticate the photo on original report only

Appendix information: The above test was carried out by other laboratory in SGS group.

\*\*\*\*\*End of report\*\*\*\*\*



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