ASD LIGHTING CORP

1780 HUGHES LANDING BLVD, SUITE 350, THE WOODLANDS, TX 77380, USA

Sample Description	:	FIREPROOF LED PANEL LIGHT
Model Name	:	ASD-BFR-24A50
Other Information	:	ASD-BFR-22A35
		ASD-BFR-14A35

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.

****

SGS Ref. No.	:	GZES2609017414LM
Sample Receiving Date	:	Apr 09,2026
Testing Period	:	Apr 09,2026 to Apr 25,2026
Test Required	:	Standard Fire Test of a loadbearing timber floor assembly protected by a gypsum board ceiling, incorporating one Fireproof LED Panel Light, in accordance with UL 263:2025 “Standard for Safety – Fire Tests of Building Construction and Materials”, CAN/ULC-S101-14-REV3(2021) “Standard Methods of Fire Endurance Tests of Building Construction and Materials” and ASTM E119 – 26 “Standard Test Methods for Fire Tests of Building Construction and Materials”.
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

Determine the fire resistance performance of a timber floor assembly protected by a gypsum board ceiling, incorporating one Fireproof LED Panel Light, when tested in accordance with Clause 10 “Floor and Roof Assemblies Test” of UL 263:2025, Section 11 “Test of Floor and Roof Assemblies” of CAN/ULC-S101-14-REV3(2021), and Clause 8.6 “Tests of Floors and Roofs” of ASTM E119-26.

The specified side (under side) of the floor assembly was exposed to elevated temperatures as dictated in standard time-temperature curve for a period of 2 hours.

The test was conducted on Apr 10, 2026.

2. SUMMARY

The performance of the specimen was judged against the criteria for load-bearing, integrity and insulation as specified in Standards for horizontal construction, and the results obtained were as follows:

PERFORMANCE CRITERIA	RESULTS
Load-bearing	2 hours
Integrity	2 hours
Insulation	2 hours

The test was terminated after a period of 2 hours as requested by the sponsor.

3. TEST SPECIMEN

The installation of a 2-hour fire-rated ceiling and timber floor assembly was to be carried out refer to the construction specifications of UL Design No. L505. The fire-rated ceiling assembly consisted of the following:

The timber floor had overall nominal dimensions of 4300 mm long by 4500 mm wide and comprised softwood timber joists at 600 mm.

The upper surface of the floor comprised one layer nominally 18 mm thick Egger chipboard flooring.

The floor assembly was protected on its underside by a direct fixed ceiling, formed from two layers of 15 mm thick plasterboard, the layer was screw fixed to the underside of the floor joists.

One layer of 50 mm thick rock wool was filled within the cavity between the floor and the ceiling.

The floor supported an evenly distributed load of 100 kg/m^2.

Please refer to the component list on the next pages.

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The ceiling incorporated one Fireproof LED Panel Light referenced as follows:

No.	Model	Description
A	ASD-BFR-24A50	Size: 1213x603 mm, Thickness: 69.5 mm, Cut out: 1166x556 mm

Schedule of Components:

1. Floor Joists

Materials	: Softwood Timber Joists
Over section size	: 50 mm thick by 255 mm deep
Density	: About 600 kg/m^3
Joint centres	: 600 mm

2. Floor boards

Manufacturer	: Egger
Materials	: Egger Chipboard, E1
Thickness	: 1 layer, 18 mm thick
Density	: About 700 kg/m^3
Fixing method	: All board screw fixed to all joists using drywall steel screws 55 mm long by 3.9 mm diameter screws, at 200 mm centers along joints and 150 mm centers align perimeter of floor.

3. Ceiling boards

Manufacturer	: Knauf
Materials	: Gypsum board
Thickness	: 2 layers, each 15 mm thick
Density	: About 720 kg/m^3
Fixing method	: For 2 layers: All board joints staggered with respect to adjacent layer and screw fixed to all joists using drywall steel screws, 35 mm

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long by 3.9 mm diameter screws for first layer and 55 mm long by 3.9 mm diameter screws for second layer, at 200 mm centres along joints and 150 mm centres align perimeter of ceiling.

For 1 layer: All board screw fixed to all joists using drywall steel screws 55 mm long by 3.9 mm diameter screws, at 200 mm centres along joints and 150 mm centres align perimeter of floor.

4. Rockwool

Materials	: Rockwool
Thickness	: 100 mm
Density	: About 68 kg/m^3
Fixing method	: Filled into the cavity between the floor and the ceiling

5. Specimen A

Overall dimensions and construction	: See Figure 1

The preparation of the test assembly took place in the test laboratory over a total combined time of two days. Throughout this period of time both the temperature and the humidity of the laboratory were measured and recorded as being within a range of from 30.4 ℃ to 30.6 ℃ and 56 % to 59 % respectively.

The tested sample was supported on the horizontal furnace with an opening size of 4200 mm by 4000 mm. The all-around of the furnace wall was covered by ceramic fiber cotton. The sample tested was asymmetrical. At the request of the sponsor, the sample was mounted such that underside (plasterboard ceiling) towards to the heating conditions of the test.

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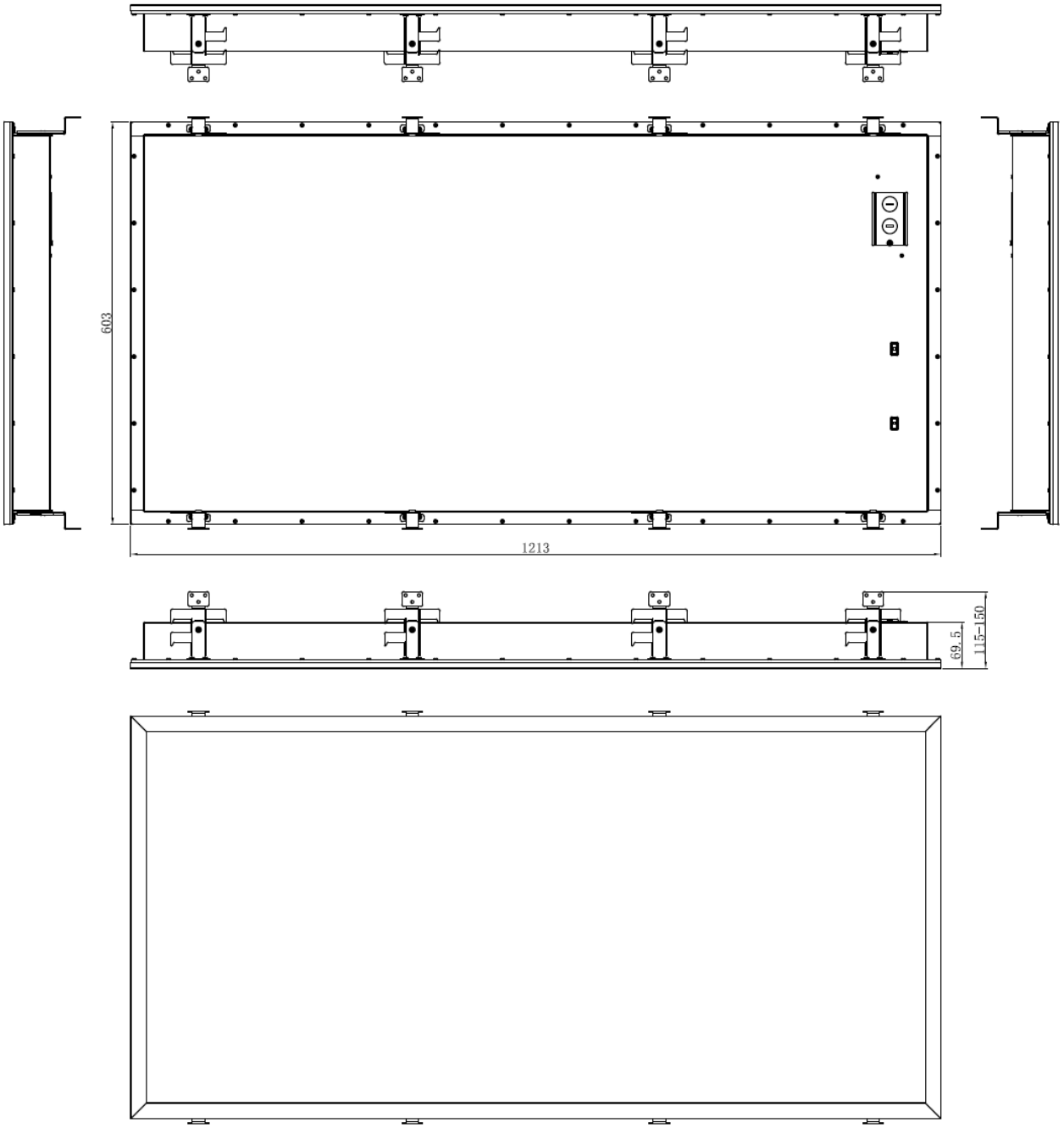
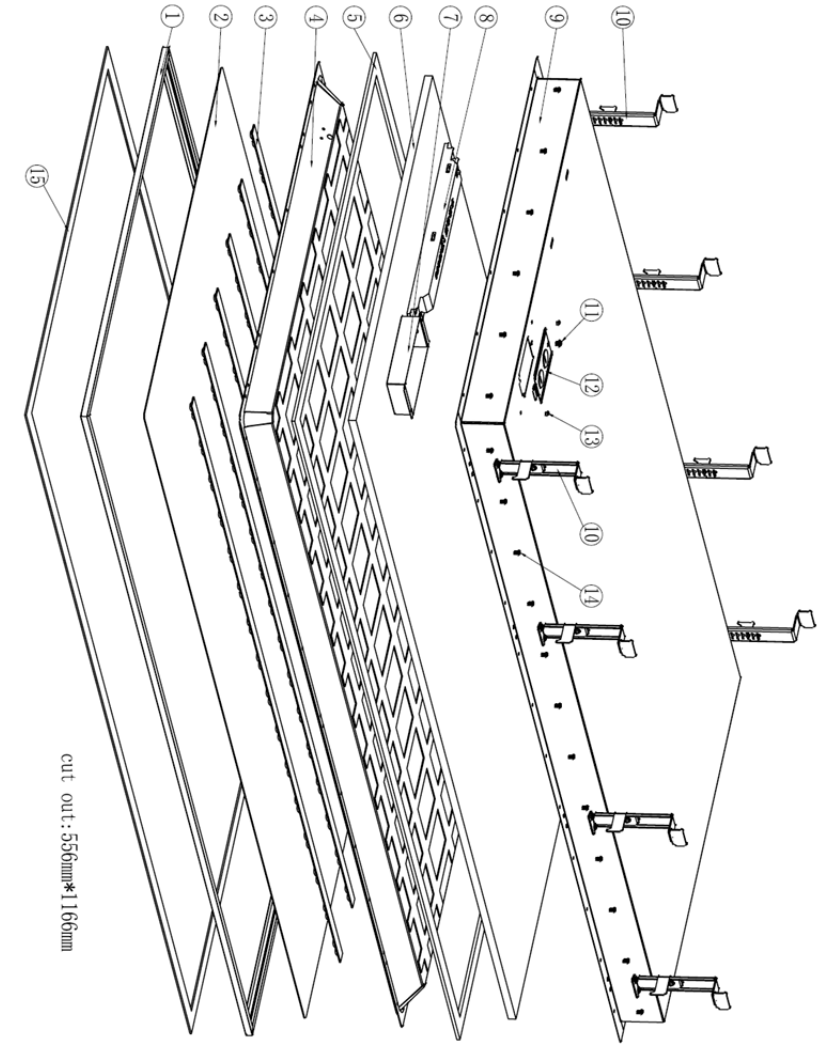


Figure 1 – Dimensional Drawings of Specimen A

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No.	Spec.
1	Frame
2	Diffuser
3	LED Strip
4	Housing
5	Fireproof intumescent seal strip
6	Fireproof insulation
7	Junction box
8	Driver
9	Fire protection cover
10	Clip
11	Screw
12	Junction box cover
13	Blind rivet
14	Screw
15	Fireproof intumescent seal strip

Figure 2 – Structure Exploded View Drawings of Specimen A

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4. TEST PROCEDURE

The test was conducted in accordance with the procedure specified in Clause 10 of UL 263:2025, Section 11 of CAN/ULC-S101-14-REV3(2021), and Clause 8.6 of ASTM E 119-26.

4.1 Test Environment

The ambient air temperature in the vicinity of the test construction was 30.4 ℃ at the start of the test with variation of -1.8 ℃ during the test.

4.2 Control of Furnace Temperature

The furnace temperature was measured by means of ten thermocouples distributed evenly in the furnace, with their measuring junctions 305 mm away from the exposed surface of the specimen. The furnace temperature was precisely regulated so that the average of all thermocouples tracked the standard time-temperature curve as closely as possible. The furnace temperatures read at intervals of 1 min during the test.

4.3 Control of Furnace Pressure

Four pressure sensors were positioned at 100 mm and 600 mm from the top of the furnace. The pressure sensors at the same height were in the same horizontal plane but in different positions relative to the perimeter of the test specimen. The readings of pressure sensors were to be recorded and reported at intervals not exceeding 1 min.

4.4 Measurement of Temperatures of Unexposed Surface and Cavity

Ten thermocouples were provided to monitor the unexposed surface of the test specimen. Five of these were to be symmetrically disposed, one at approximately the center of the specimen and four at approximately the center of its quarter sections. The other five were to be located at the discretion of the testing body to obtain representative information on the performance of the construction under test.

The cavity thermocouples were located near the luminaires inside the ceiling.

4.5 Measurement of Deflection

From the moment the test commenced, the deflection of the test assembly was continuously monitored by a draw-wire displacement sensor positioned at the center of the unexposed surface of test assembly, logging data at least once every minute.

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4.6 Correction of the Resistance Period

When the indicated resistance period is 1/2-h or longer as determined by the average or maximum temperature rise on the unexposed surface or within the test specimen, or by failure under load, a correction is to be applied for variation of the furnace exposure from that specified, if it will affect the classification. The correction is to be applied by multiplying the indicated resistance period by two-thirds of the difference in area between the curve of average furnace temperature and the standard curve for the first three-fourths of the period. The product is to be divided by the area between the standard curve and a base line period, of 68 ℉ (20 ℃) for the same part of the indicated period, the latter area increased by 54 ℉·h or 30 ℃·h (3240 ℉·min or 1800 ℃·min), to compensate for the thermal lag of the furnace thermocouples during the first part of the test. For fire exposure in the test higher than standard, the indicated resistance period is to be increased by the amount of the correction and is to be similarly decreased for fire exposure below standard. The correction can be expressed by the following formula:

$$C = \frac{2I(A - A_S)}{3(A_S + L)}$$

where:

C = correction in the same units as I,

I = indicated fire-resistance period,

A = area under the curve of indicated average furnace temperature for the first 3/4 of the indicated period,

A_S = area under the standard furnace curve for the same part of the indicated period, and

L = lag correction in the same units as A and A_S (54 ℉·h or 30 ℃·h (3240 ℉·min or 1800 ℃·min))

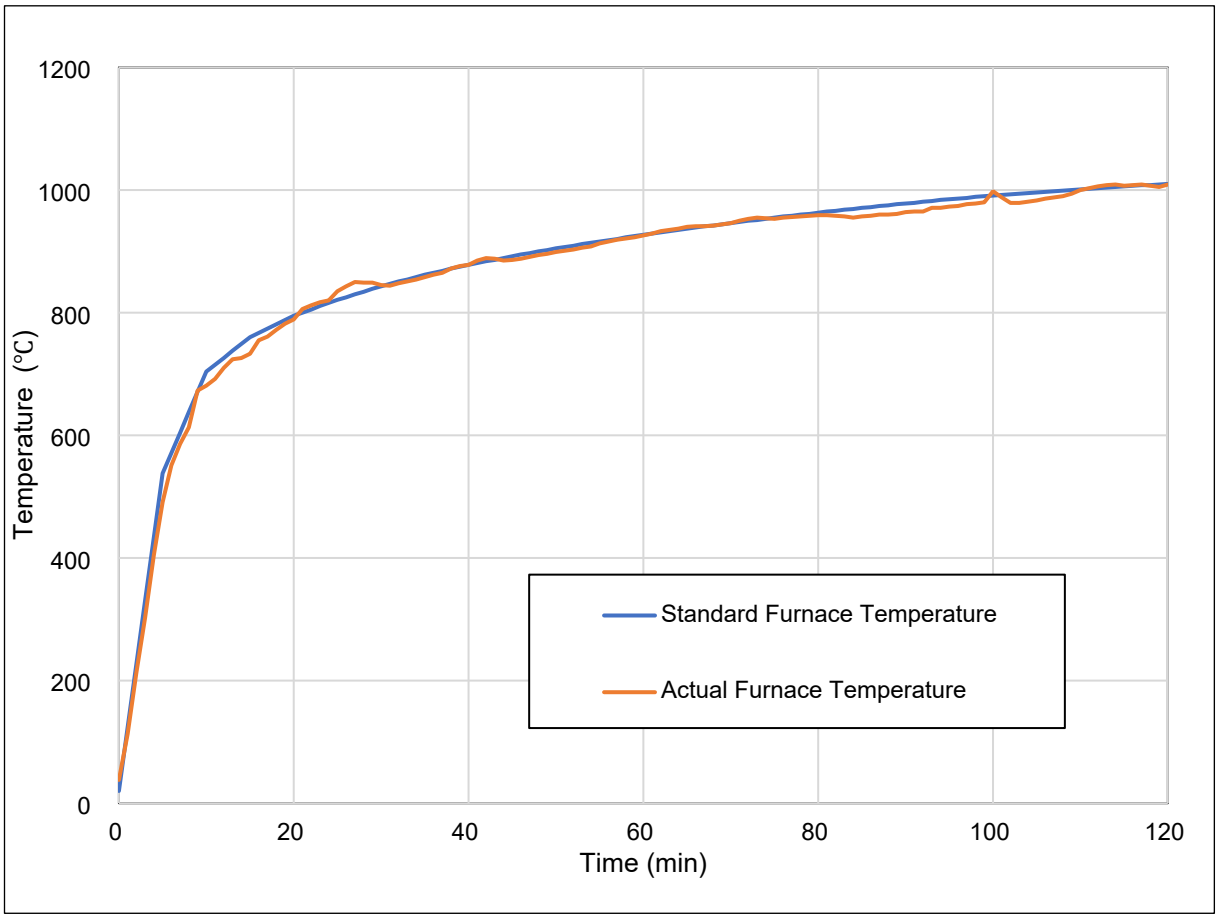
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5. TEST DETAILS

The following data were recorded during the test.

5.1 Furnace Temperature Record

The actual mean furnace temperature/time curve as well as the standard furnace temperature/time curve were shown in the figure below.



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The standard temperature and the actual mean temperature within the furnace were shown on the table below.

Time (min)	Standard Temperature (℃)	Actual Mean Temperature (℃)	Deviation
0	20	38	-
1	124	113	-9.6%
2	227	213	-8.2%
3	331	303	-8.2%
4	434	405	-8.1%
5	538	491	-8.1%
6	571	551	-7.6%
7	604	586	-6.5%
8	638	613	-5.9%
9	671	673	-5.2%
10	704	681	-4.7%
11	715	692	-4.5%
12	726	710	-4.3%
13	738	724	-4.0%
14	749	726	-3.9%
15	760	733	-3.8%
16	767	755	-3.7%
17	774	761	-3.5%
18	781	772	-3.4%
19	788	782	-3.2%
20	795	789	-3.1%
21	800	806	-2.9%
22	805	812	-2.6%
23	811	817	-2.4%
24	816	820	-2.3%
25	821	835	-2.1%
26	825	843	-1.9%
27	830	850	-1.7%
28	834	849	-1.5%
29	839	849	-1.4%
30	843	845	-1.3%
31	847	844	-1.2%
32	851	848	-1.2%
33	854	851	-1.2%
34	858	854	-1.1%
35	862	858	-1.1%
36	865	862	-1.1%
37	868	865	-1.1%
38	872	872	-1.0%

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Time (min)	Standard Temperature (℃)	Actual Mean Temperature (℃)	Deviation
39	875	876	-1.0%
40	878	878	-1.0%
41	881	885	-0.9%
42	884	889	-0.9%
43	886	888	-0.9%
44	889	885	-0.8%
45	892	886	-0.8%
46	895	888	-0.8%
47	897	891	-0.8%
48	900	894	-0.8%
49	902	896	-0.8%
50	905	899	-0.8%
51	907	901	-0.8%
52	909	903	-0.8%
53	912	906	-0.8%
54	914	908	-0.8%
55	916	913	-0.8%
56	918	916	-0.8%
57	920	919	-0.8%
58	923	921	-0.7%
59	925	923	-0.7%
60	927	926	-0.7%
61	929	929	-0.7%
62	931	933	-0.7%
63	933	935	-0.7%
64	935	937	-0.7%
65	937	940	-0.6%
66	939	941	-0.6%
67	941	941	-0.6%
68	942	942	-0.6%
69	944	944	-0.6%
70	946	946	-0.6%
71	948	950	-0.6%
72	950	953	-0.6%
73	951	955	-0.5%
74	953	954	-0.5%
75	955	953	-0.5%
76	957	955	-0.5%
77	958	956	-0.5%
78	960	957	-0.5%
79	961	958	-0.5%

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Time (min)	Standard Temperature (℃)	Actual Mean Temperature (℃)	Deviation
80	963	959	-0.5%
81	965	959	-0.5%
82	966	958	-0.5%
83	968	957	-0.5%
84	969	955	-0.5%
85	971	957	-0.5%
86	972	958	-0.5%
87	974	960	-0.6%
88	975	960	-0.6%
89	977	961	-0.6%
90	978	964	-0.6%
91	979	965	-0.6%
92	981	965	-0.6%
93	982	971	-0.6%
94	984	971	-0.6%
95	985	973	-0.6%
96	986	974	-0.6%
97	987	977	-0.7%
98	989	978	-0.7%
99	990	980	-0.7%
100	991	998	-0.7%
101	992	988	-0.6%
102	993	979	-0.7%
103	994	979	-0.7%
104	995	981	-0.7%
105	996	983	-0.7%
106	997	986	-0.7%
107	998	988	-0.7%
108	999	990	-0.7%
109	1000	994	-0.7%
110	1001	1000	-0.7%
111	1002	1003	-0.7%
112	1003	1006	-0.7%
113	1004	1008	-0.7%
114	1005	1009	-0.6%
115	1006	1007	-0.6%
116	1007	1008	-0.6%
117	1008	1009	-0.6%
118	1008	1007	-0.6%
119	1009	1005	-0.6%
120	1010	1009	-0.6%

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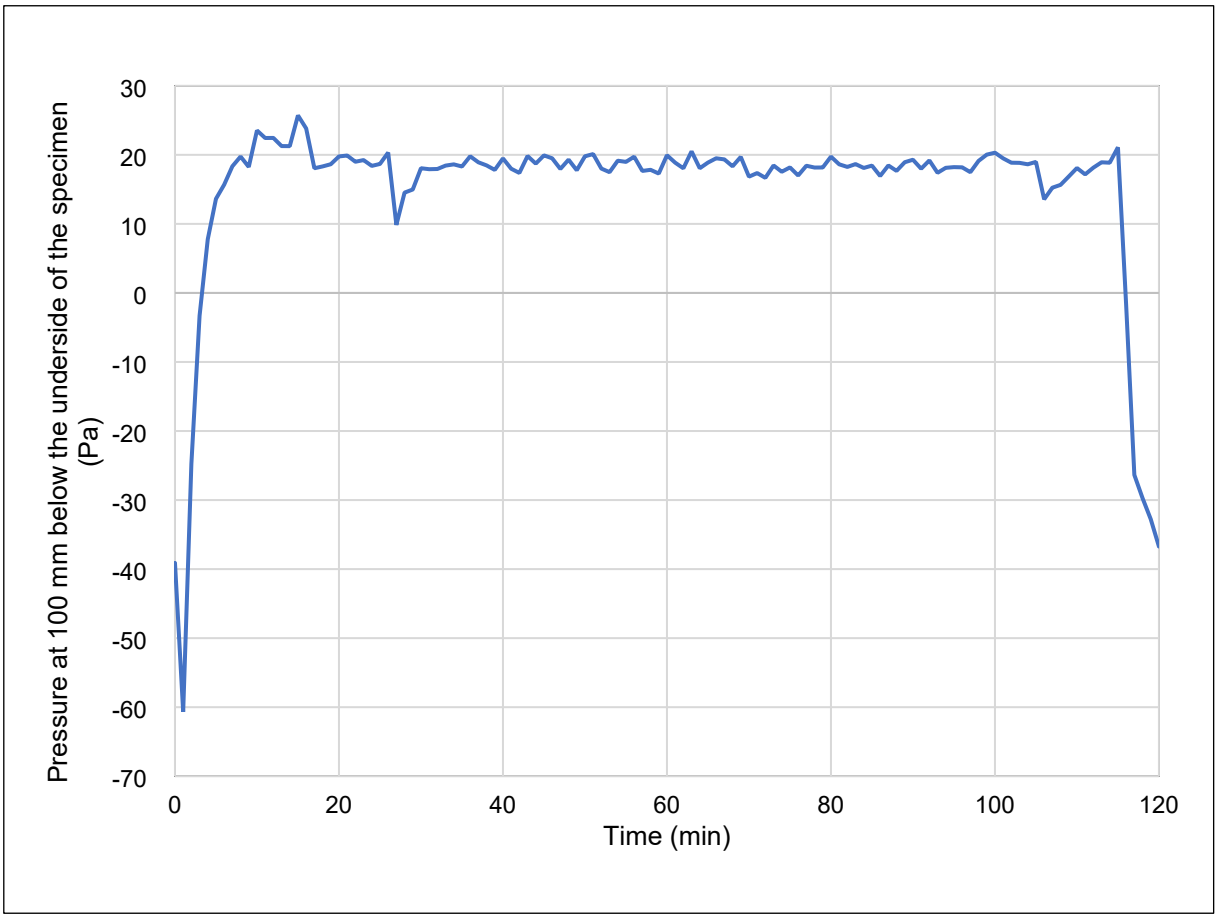
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5.2 Furnace Pressure Record

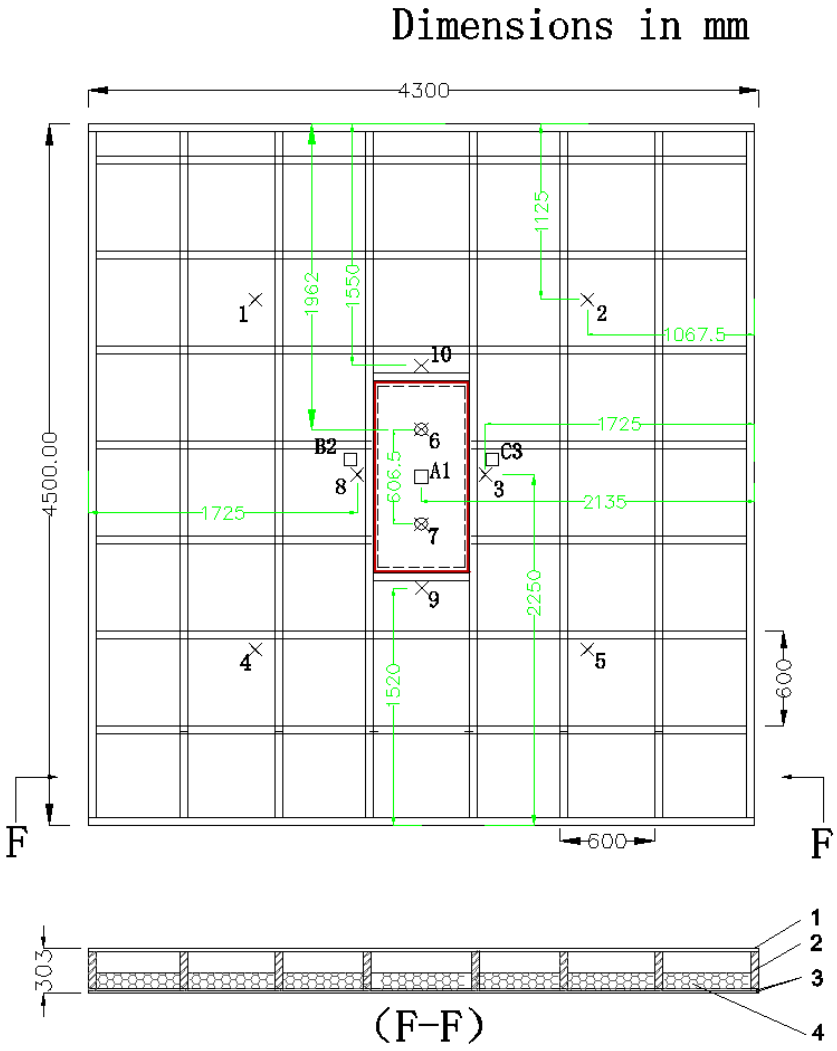
The actual furnace pressure/time curve were shown in the figure below.



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5.3 Unexposed Surface and Cavity Temperatures Record

The general plan of test samples from unexposed face and thermocouple positions arrangement were shown in the figure below (unit: mm).

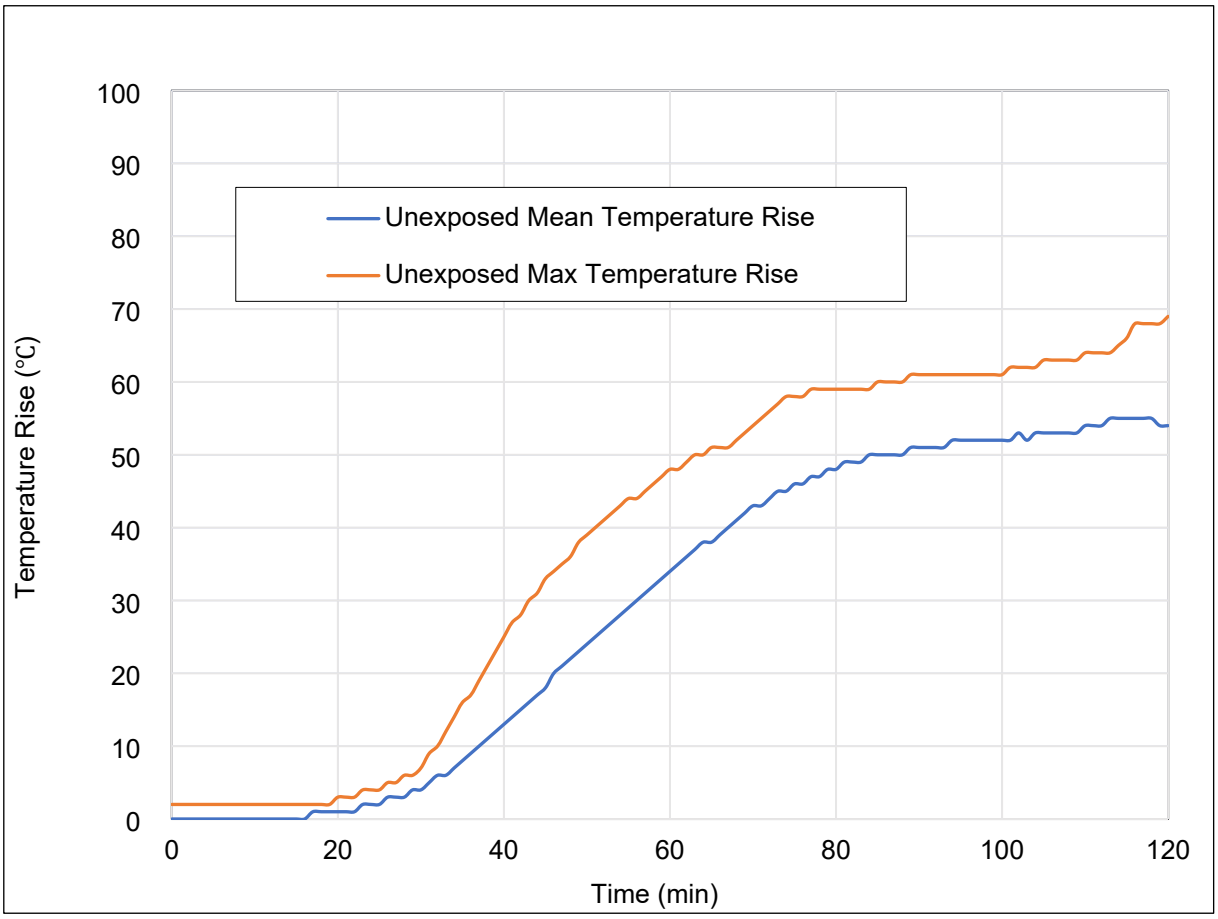


1、18 mm Chipboard
2、255 mm Softwood Timber Joists
3、2 layers 15 mm ceiling boards
4、50 mm Rockwood

○ - Downlight Position
× - Unexposed surface thermocouple position
□ - mid-depth thermocouples within the timber floor void

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The unexposed average temperature rise/time curve as well as the max temperature rise/time curve were shown in the figure below.



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The temperatures recorded on the unexposed surface of the specimen were shown on the table below.

Time (min)	Temperature (℃)											
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	Mean Rise	Max Rise
0	33	31	31	34	31	32	32	31	33	33	0	2
1	33	31	31	34	31	32	32	31	33	33	0	2
2	33	31	32	34	31	32	32	31	33	33	0	2
3	33	31	32	34	31	32	32	31	33	33	0	2
4	33	31	32	34	31	32	32	31	33	33	0	2
5	33	31	32	34	31	32	32	31	33	33	0	2
6	33	31	32	34	31	33	32	31	33	33	0	2
7	33	31	32	34	31	32	32	31	33	33	0	2
8	33	31	32	34	31	32	32	31	33	33	0	2
9	33	31	32	34	31	33	32	31	33	33	0	2
10	33	31	32	34	31	33	32	31	33	33	0	2
11	33	31	32	34	31	33	32	31	33	33	0	2
12	33	31	32	34	31	33	32	31	33	33	0	2
13	33	31	32	34	31	33	32	31	33	33	0	2
14	33	31	32	34	31	33	32	31	33	33	0	2
15	33	31	32	34	31	33	32	31	33	33	0	2
16	33	31	32	34	31	33	32	31	33	33	0	2
17	34	32	32	34	32	33	32	31	33	33	1	2
18	34	32	32	34	32	33	32	32	33	34	1	2
19	34	32	32	34	32	33	32	32	33	34	1	2
20	34	33	32	35	32	33	32	32	33	34	1	3
21	35	33	33	35	33	33	32	32	33	34	1	3
22	35	33	33	35	33	33	32	33	33	34	1	3
23	36	34	33	36	33	33	32	33	33	34	2	4
24	36	34	34	36	34	33	32	33	33	34	2	4
25	36	34	34	36	34	34	32	34	33	35	2	4
26	37	35	34	37	34	34	33	34	33	35	3	5
27	37	35	34	37	35	35	33	34	33	35	3	5
28	38	35	35	38	35	36	34	35	33	35	3	6
29	38	36	35	38	35	38	34	35	33	36	4	6
30	38	36	35	38	36	39	36	35	33	36	4	7
31	39	37	36	39	36	41	37	36	33	37	5	9
32	39	37	36	39	37	42	39	37	33	37	6	10
33	39	37	37	40	37	44	40	37	34	38	6	12
34	40	38	37	41	38	46	42	38	34	38	7	14
35	40	38	38	41	38	48	44	39	34	39	8	16
36	40	39	39	42	39	49	45	39	35	40	9	17
37	41	39	40	43	40	51	47	40	36	41	10	19
38	41	40	41	44	41	53	49	41	36	42	11	21

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Time (min)	Temperature (℃)											
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	Mean Rise	Max Rise
39	42	40	41	45	41	55	50	42	37	43	12	23
40	43	41	42	46	42	57	52	43	38	45	13	25
41	43	42	43	46	43	59	54	44	40	46	14	27
42	44	43	44	47	44	60	55	45	41	47	15	28
43	45	43	45	48	45	62	57	46	42	49	16	30
44	46	44	46	49	46	63	59	47	43	50	17	31
45	47	45	47	50	47	65	60	48	44	51	18	33
46	48	46	48	51	48	66	61	49	45	53	20	34
47	48	47	49	52	49	67	63	50	46	54	21	35
48	49	48	50	53	50	68	64	51	48	55	22	36
49	50	49	51	54	51	70	65	52	49	57	23	38
50	51	50	52	55	52	71	66	53	50	58	24	39
51	52	50	53	55	53	72	67	54	51	59	25	40
52	53	51	54	56	54	73	69	55	53	61	26	41
53	54	52	55	57	55	74	70	56	54	62	27	42
54	55	53	56	58	56	75	71	57	56	63	28	43
55	56	54	56	59	57	76	71	58	57	65	29	44
56	57	55	57	60	58	76	72	59	59	66	30	44
57	58	55	58	61	59	77	73	60	60	67	31	45
58	59	56	59	61	59	78	74	61	61	69	32	46
59	60	57	60	62	60	79	75	62	63	70	33	47
60	61	58	61	63	61	80	76	63	64	71	34	48
61	61	59	62	64	62	80	76	64	66	73	35	48
62	62	59	63	65	63	81	77	64	67	74	36	49
63	63	60	64	65	64	82	78	65	68	76	37	50
64	64	61	65	66	65	82	78	66	70	78	38	50
65	65	61	65	67	66	83	79	67	71	79	38	51
66	66	62	66	68	66	83	79	68	73	80	39	51
67	67	63	67	68	67	83	80	68	74	82	40	51
68	68	64	68	69	68	84	80	69	75	84	41	52
69	69	64	69	69	69	84	81	70	77	85	42	53
70	70	65	70	70	70	85	81	70	78	86	43	54
71	71	65	71	70	70	85	82	71	79	87	43	55
72	72	66	72	71	71	85	82	71	80	88	44	56
73	73	67	72	71	71	86	83	72	81	89	45	57
74	74	67	73	71	72	86	83	73	82	90	45	58
75	74	68	74	72	73	86	83	73	84	90	46	58
76	75	68	75	72	73	86	84	74	85	90	46	58
77	76	69	76	72	74	87	84	74	86	91	47	59
78	77	69	76	73	74	87	84	74	87	91	47	59
79	77	70	77	73	74	87	85	75	87	91	48	59

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Time (min)	Temperature (℃)											
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	Mean Rise	Max Rise
80	78	70	78	73	75	88	85	75	88	91	48	59
81	78	71	78	74	75	88	85	76	89	91	49	59
82	79	71	79	74	75	88	86	76	90	91	49	59
83	79	72	79	74	76	89	86	76	90	91	49	59
84	80	72	79	74	76	89	86	77	91	91	50	59
85	80	73	80	75	76	89	87	77	92	91	50	60
86	80	73	80	75	76	90	87	77	92	91	50	60
87	81	73	80	75	76	90	88	78	92	90	50	60
88	81	73	80	75	77	90	88	78	92	90	50	60
89	81	74	80	75	77	91	89	78	93	90	51	61
90	81	74	80	76	77	91	89	78	93	90	51	61
91	81	74	80	76	77	91	89	79	93	90	51	61
92	82	74	80	76	77	92	90	79	93	90	51	61
93	82	75	80	76	77	92	90	79	93	89	51	61
94	82	75	80	77	77	92	91	79	93	89	52	61
95	82	75	80	77	78	93	91	80	93	89	52	61
96	82	75	80	77	78	93	92	80	93	89	52	61
97	82	75	80	77	78	93	92	80	93	88	52	61
98	82	75	80	78	78	93	93	80	93	88	52	61
99	82	75	80	78	78	93	93	80	93	88	52	61
100	82	76	80	78	78	93	93	81	92	88	52	61
101	82	76	80	79	78	93	94	81	92	88	52	62
102	83	76	80	79	79	93	94	81	92	88	53	62
103	82	76	80	79	79	93	94	81	92	88	52	62
104	83	76	80	80	79	93	94	81	92	88	53	62
105	83	76	80	81	79	93	95	81	92	88	53	63
106	82	76	80	82	79	93	95	82	91	87	53	63
107	82	77	80	83	80	93	95	82	91	87	53	63
108	82	77	80	85	80	93	95	82	91	87	53	63
109	83	77	80	87	80	93	95	82	90	87	53	63
110	83	77	80	89	80	93	96	82	90	87	54	64
111	83	77	80	91	80	94	96	82	90	87	54	64
112	83	77	80	93	81	94	96	82	90	87	54	64
113	83	77	80	95	81	94	96	83	90	87	55	64
114	83	78	80	97	82	94	96	83	89	86	55	65
115	83	78	80	98	82	94	96	84	89	86	55	66
116	83	78	80	100	83	93	96	83	89	85	55	68
117	82	78	80	100	84	93	96	83	88	83	55	68
118	81	78	80	100	85	93	96	83	88	82	55	68
119	80	78	80	100	86	93	96	83	87	81	54	68
120	79	78	79	101	87	93	96	84	86	80	54	69

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The cavity temperatures were shown on the table below.

Time (min)	Temperature (℃)		
	A1	B2	C3
0	31	29	29
1	31	29	29
2	31	29	29
3	31	29	29
4	31	29	29
5	31	29	29
6	31	29	29
7	31	29	29
8	31	29	29
9	31	29	29
10	31	30	29
11	32	31	30
12	32	32	32
13	32	34	33
14	32	36	35
15	32	38	38
16	32	40	39
17	32	41	41
18	33	42	42
19	33	43	42
20	35	44	44
21	38	45	44
22	42	46	45
23	48	46	45
24	55	47	46
25	63	47	46
26	70	48	47
27	74	50	48
28	78	51	50
29	80	54	51
30	83	57	55
31	85	60	58
32	87	62	61
33	88	64	63
34	90	66	64
35	90	67	66
36	91	69	68
37	91	70	69
38	92	71	71

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Time (min)	Temperature (℃)		
	A1	B2	C3
39	92	73	72
40	92	74	73
41	92	75	74
42	92	76	75
43	92	77	76
44	91	78	78
45	92	80	79
46	92	81	80
47	92	82	81
48	92	82	82
49	93	83	83
50	93	84	83
51	94	85	84
52	95	86	85
53	96	86	85
54	97	87	86
55	98	88	86
56	99	88	87
57	101	89	88
58	104	89	88
59	107	90	88
60	110	90	89
61	113	91	89
62	116	91	90
63	117	91	91
64	119	91	91
65	121	92	92
66	122	92	92
67	124	92	93
68	125	91	93
69	127	91	93
70	128	91	94
71	130	91	94
72	132	91	94
73	133	91	94
74	134	91	94
75	136	91	94
76	137	91	93
77	141	91	93
78	142	91	93
79	143	92	93

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Time (min)	Temperature (℃)		
	A1	B2	C3
80	143	92	92
81	144	92	92
82	145	92	92
83	144	92	92
84	145	92	92
85	147	93	91
86	148	93	91
87	150	94	91
88	151	94	91
89	152	95	91
90	155	96	91
91	158	96	91
92	161	97	91
93	164	97	91
94	166	98	92
95	167	98	92
96	167	99	93
97	169	100	94
98	170	104	95
99	172	110	96
100	173	112	97
101	173	114	97
102	175	114	98
103	174	115	99
104	174	116	101
105	176	116	109
106	180	116	112
107	179	116	114
108	182	116	114
109	182	117	115
110	182	119	115
111	182	121	116
112	184	127	117
113	186	134	118
114	188	142	118
115	190	149	118
116	192	156	119
117	187	160	120
118	181	162	122
119	182	162	124
120	179	162	126

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5.4 Deflection Record

The deflection of test assembly during the test was recorded on the table below.

Time (min)	Deflection (mm)	Rate of Deflection(mm/min)
0	0.0	--
1	0.0	0.0
2	0.0	0.0
3	0.6	0.6
4	1.5	0.9
5	1.7	0.2
6	1.9	0.2
7	2.1	0.2
8	1.8	-0.3
9	2.1	0.3
10	2.4	0.3
11	2.3	-0.1
12	2.4	0.1
13	2.4	0.1
14	2.6	0.2
15	2.5	-0.1
16	2.4	-0.2
17	2.4	0.1
18	2.3	-0.1
19	2.3	0.0
20	3.0	0.7
21	2.1	-0.9
22	2.4	0.4
23	2.6	0.2
24	2.5	-0.1
25	3.0	0.5
26	2.4	-0.5
27	2.6	0.2
28	2.7	0.1
29	2.6	-0.1
30	2.6	0.0
31	3.1	0.5
32	2.9	-0.2
33	2.8	-0.1
34	3.0	0.2
35	3.2	0.2
36	2.8	-0.4
37	3.4	0.6

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Time (min)	Deflection (mm)	Rate of Deflection(mm/min)
38	3.1	-0.3
39	3.5	0.5
40	3.3	-0.3
41	3.6	0.4
42	4.2	0.5
43	3.9	-0.3
44	4.0	0.1
45	3.8	-0.2
46	4.1	0.3
47	4.3	0.2
48	4.1	-0.2
49	5.2	1.2
50	5.4	0.2
51	5.2	-0.3
52	5.2	0.0
53	5.5	0.4
54	5.4	-0.1
55	5.8	0.4
56	6.0	0.2
57	6.4	0.5
58	6.8	0.4
59	6.7	-0.1
60	6.8	0.1
61	7.1	0.3
62	7.3	0.3
63	7.8	0.5
64	7.7	-0.1
65	8.1	0.5
66	8.2	0.1
67	8.5	0.3
68	8.6	0.1
69	9.4	0.8
70	9.3	-0.1
71	9.7	0.4
72	9.8	0.1
73	10.0	0.2
74	10.5	0.5
75	10.5	0.0
76	11.1	0.6
77	11.2	0.1
78	11.8	0.5
79	12.2	0.5

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Time (min)	Deflection (mm)	Rate of Deflection(mm/min)
80	12.1	-0.1
81	12.2	0.1
82	12.8	0.5
83	13.0	0.3
84	12.8	-0.2
85	13.1	0.3
86	13.2	0.1
87	13.6	0.4
88	13.9	0.4
89	13.8	-0.1
90	14.1	0.3
91	14.3	0.2
92	14.3	0.0
93	14.5	0.2
94	14.7	0.2
95	15.7	1.1
96	15.2	-0.5
97	15.5	0.3
98	15.5	0.0
99	15.8	0.4
100	15.8	0.0
101	15.9	0.1
102	16.3	0.4
103	16.6	0.4
104	16.8	0.2
105	16.6	-0.3
106	16.9	0.4
107	17.5	0.6
108	17.1	-0.4
109	17.6	0.5
110	17.8	0.2
111	18.2	0.4
112	18.6	0.4
113	18.1	-0.6
114	18.5	0.4
115	19.0	0.5
116	18.9	-0.1
117	19.4	0.5
118	20.1	0.6
119	20.4	0.4
120	20.8	0.4

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5.5 Furnace Exposure Correction

Variable	Description	Value	Unit
C	Correction Factor	-0.46	minutes
I	Indicated fire-resistance period	120	minutes
A	Area under the curve of indicated average furnace temperature for the first 3/4 of the indicated period	73322	℃*min
A_S	Area under the standard furnace curve for the first 3/4 of the indicated period	73760	℃*min
L	Lag correction	1800	℃*min
FR Period	**Fire- Resistance Period**	**120**	**minutes**

Note: The standard specifies that the fire resistance shall be determined to the nearest integral minute. Consequently, if the correction factor is less than 30 seconds, and the test specimen met the criteria for the full indicated fire resistance period, no correction is deemed necessary.

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5.6 Test Observations

Observations made during the test were given on the table below.

Time (min:sec)	Observation
-15:00	A dead load of 100 kg/m^2 was applied to the floor assembly.
00:00	Furnace fired and test was started.
20:00	No significant phenomena were observed on the unexposed surface of the floor assembly.
60:00	No significant phenomena were observed on the unexposed surface of the floor assembly.
80:00	There was a small amount of smoke leakage from the unexposed surface of the floor assembly.
100:00	The smoke on the unexposed surface of the floor assembly gradually increased.
120:00	The floor assembly maintained its load-bearing capacity. No gaps or flames were observed on the unexposed surface of the floor assembly, and the temperature rise on the unexposed surface met the fire resistance requirements.
121:00	The test was terminated as per sponsor's requirement.

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6. CONDITIONS OF ACCEPTANCE AND TEST RESULTS

According to the conditions of acceptance in Clause 3.3.8, 10.6.1 of UL 263:2025, Clause 11.7 CAN/ULC-S101-14-REV3(2021), and Clause 7.3, 8.6.6 of ASTM E 119-26, the assembly shall have complied with the following conditions:

a) The specimen shall have sustained the applied load during the classification period without passage of flames or developing unexposed surface conditions which will ignite cotton waste.

b) Transmission of heat through the test specimen throughout the fire endurance test shall not raise the average temperature measured by the stationary thermocouples on its unexposed surface more than 139 ℃ above its initial average temperature; nor shall the temperature rise at any individual point exceed 180 ℃ including a temperature measured by the roving thermocouple.

Test Results Summary	
Item	**Test Results**
Passage of flames or ignition of cotton	Meet No passage of flames nor ignition of cotton.
Temperature rise of unexposed surface	Meet At 120 min, the average temperature rise of unexposed surface was 54 ℃, the maximum temperature rise of unexposed surface was 69 ℃.

7. CONCLUSION

The test specimen **complies with** the conditions of acceptance of UL 263:2025, CAN/ULC-S101-14-REV3(2021) and ASTM E 119-26 for 2-hour fire resistance rating.

8. LIMITATION

The results only relate to the behavior 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 behavior in fires.

The test results only relate to the specimen tested. The fire resistance performance of a specimen of this design may change if it has different dimensions or construction or mounted within a different type of floor/ceiling assembly.

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PHOTO APPENDIX

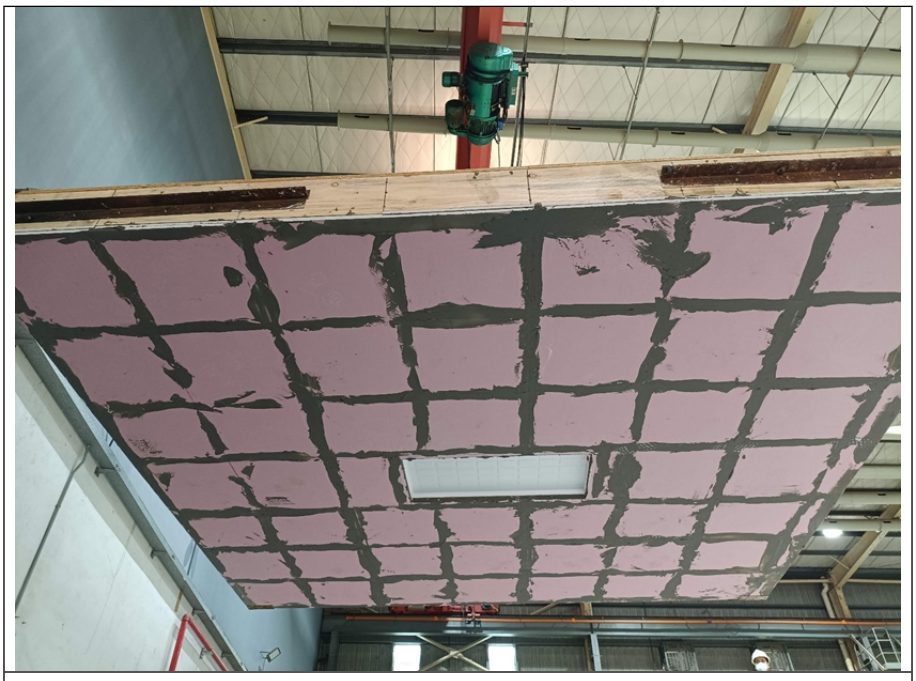


Front view of specimen A



Back view of specimen A

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The exposed face before the test



The unexposed face before the test

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The unexposed face after test duration of 20 minutes



The exposed face after test duration of 40 minutes

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The unexposed face after test duration of 60 minutes



The unexposed face after test duration of 90 minutes

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The exposed face after test duration of 110 minutes



The exposed face after test duration of 120 minutes

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The unexposed face after the test

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The exposed face after the test

SGS authenticate the photo on original report only

Remark: This test report is issued based on the modification of the original No. SDFTS26002424R01_EN test report issued on May 06,2026. And the original report is still valid. According to applicant's requirements, following changes are included:
a. Change of applicant's name.
b. Change of applicant's address.
c. Change of Model name.
d. Change of other information.

End of Report

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