

No. SDFS2311007059FR

Date: Nov.24, 2023

Page 1 of 27

ORTECH INDUSTRIES INC

13376 COMBER WAY SURREY BC V3W 5V9

Sample Description: LED DOWNLIGHT

Model Name: SLIM4FR-5CCT, SLIM6FR-5CCT, SLIM4FL+FR-5CCT, SLIM6FL+FR-5CCT The above 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.

SGS Ref No.: GZES2311020114LM Sample Receiving Date: Jul.12, 2023 Test Performing Date: Jul.12, 2023 to Sep.22, 2023

Test Requested:

The fire resistance performance of loadbearing timber floor assembly protected by a fiber reinforced calcium silicate board ceiling, incorporating four LED downlights, in accordance with UL 263:2022 /ASTM E119:2022 /CAN/ULC-S101-07.

Test Results: -- See attached sheet --

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

Irvette Zhang Approved signatory



金测专用音 ion & Testing Services

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Test Report No. SDFS2311007059FR Date: No	ov.2
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Contents

Introduction	. 3
Summary	. 3
Test Sample	. 3
Test Procedure1	12
Test Results	12
Conditions of Acceptance and Test Results	18
Conclusion1	18
Limitation1	18
Photo Appendix	19



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Date: Nov.24, 2023

1. Introduction

Determine the fire resistance performance of a timber floor assembly protected by a fiber reinforced calcium silicate board ceiling, incorporating four LED downlights, when tested in accordance with UL 263:2022, Clause 10, Floor and Roof Assemblies Test./Floors and Roofs of ASTM E119:2022. /CAN/ULC-S101-07 Section 10. Floor and Roof Assemblies.

The specified side (under side) of floor sample was exposed to elevated temperatures as dictated in standard time-temperature curve for a period of 120 minutes.

The test was conducted on Sep.16th, 2023.

2. Summary

The performance of the sample was judged against the criteria for integrity and insulation as specified in Standards for horizontal construction, 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

Use a 2-hour fire rated ceiling assembly constructed refer to the construction specifications of UL Design No. L505. The fire rated ceiling assembly consisting of the following:

The timber floor had overall nominal dimensions of 4300 mm long by 4500 mm wide and comprised softwood timber joists spaced 406 mm.

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

The underside of the floor assembly was protected by two layers 15mm thick ceiling boards with a 15.9mm high resilient channels installed between the two layers ceiling boards.

The floor supported an evenly distributed load of 100kg/m².

Please refer to the component list on the next page.

Note: All materials used in above ceiling assembly are purchased in China.



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Test Report No. SDFS2311007059FR

Date: Nov.24, 2023

Page 4 of 27

The ceiling incorporated four downlights referenced as follows:

Model	Description
SLIM4FR-5CCT	Size: 127 mm Ø by 51 mm Hight, fixed downlight, 108 mm cut-out
SLIM6FR-5CCT	Size: 175 mm Ø by 51 mm Hight, fixed downlight, 158 mm cut-out
SLIM4FL+FR-5CCT	Size: 125 mm Ø by 52 mm Hight, fixed downlight, 108 mm cut-out
SLIM6FL+FR-5CCT	Size: 175 mm Ø by 51 mm Hight, fixed downlight, 140 mm cut-out

Schedule of Components Timber floor assembly

1. 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 centres along joints and 150 mm centres align perimeter of floor.
2. Floor Joists	
Materials	: Softwood Timber Joists
Over section size	: 50 mm thick by 254 mm deep
Density	: About 600 kg/m ³
Joint centres	: 406 mm



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Test Report	No. SDFS2311007059FR	Date: Nov.24, 2023	Page 5 of 27				
3. Resilient Channels							
Materials	: Glav steel						
Spacing	: 24 in.						
Fixing method	: The resilient channel Channels overlapped each joist with screws be 3/4 in.(19.0mm).	s installed between the two ceili 1/2 in.(12.7mm) at splices and s . Min end clearance of channels	ng boards. secured to to wall to				
4. Ceiling boards							
Materials	: Fiber reinforced calci	ium silicate board					
Thickness	: 2 layers, each 15mm	ı thick					
Density	: About 1010 kg/m ³						
Fixing method	: First layer installed w and end joints of board uncoated nails spaced with long dimension per center line of boards lo edge joint of this layer first layer. Secured to gypsum board screws	rith long dimension perpendicular ds located at the joists. Nailed to 1 7 in. (177.8mm) OC. Second la erpendicular to the resilient char ocated under a joist and so place is not in alignment with the end resilient channels with 1 in. (25. 12 in.(304.8mm) OC.	ar to joists, b joists with ayer installed nnels and ed that the joint of the 4mm) long				
5. Specimen "B"							
Model	: SLIM4FR-5CCT						
Overall dimensions and con	struction : See Figure 2-2						
Hole size in ceiling boards	: 108 mm diameter						
6. Specimen "C"							
Model	: SLIM6FR-5CCT						
Overall dimensions and con	struction : See Figure 2-3						
Hole size in ceiling boards	: 158 mm diameter	: 158 mm diameter					



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	Test Report	No. SDFS2311007059FR	Date: Nov.24, 2023	Page 6 of 27
7.	Specimen "D"			
ľ	Model	: SLIM4FL+FR-5CCT		
(Overall dimensions and construc	tion : See Figure 2-4		
ŀ	Hole size in ceiling boards	: 108 mm diameter		
8.	Specimen "E"			
ľ	Model	: SLIM6FL+FR-5CCT		
(Overall dimensions and construc	tion : See Figure 2-5		
ŀ	Hole size in ceiling boards	: 140 mm diameter		

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



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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 7 of 27

- - Unposed face thermocouple post
- O Downlight position
- ▼ Deflection measurement points

Figure 1 - General Plan of Test Sample from Unexposed Face and Thermocouple Positions (Unit: mm)



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Figure 2-2 - Details of Specimens 'B'



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Figure 2-3 - Details of Specimens 'C'



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Figure 2-4 - Details of Specimens 'D'



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Figure 2-5 - Details of Specimens 'E'



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No. SDFS2311007059FR

Date: Nov.24, 2023

4. Test Procedure

The test was conducted in accordance with the procedure specified in UL 263:2022, Clause 10, Floor and Roof Assemblies Test /Floors and Roofs of ASTM E119:2022 /CAN/ULC-S101-07 Section 10. Floor and Roof Assemblies.

The ambient air temperature in the vicinity of the test construction was 29.0 °C at the start of the test with variation of +4.9 °C during the test.

The furnace temperature was measured by means of nine thermocouples distributed evenly in the furnace, with their measuring junctions 305mm away from the exposed surface of the specimen. The furnace temperature was controlled so that the mean of the nine thermocouple readings followed as closely as possible standard time- temperature curve. The furnace temperatures read at intervals not exceeding 5 min during the first 2 h.

Thirteen thermocouples were provided to monitor the unexposed surface of the test specimen.

5. Test Results

The following data were recorded during the test:

- The actual mean furnace temperature/time curve as well as the standard furnace temperature/ time a) curve, which were shown in Figure 3. The standard temperature and the actual mean temperature within the furnace were shown in Table 1.
- Individual temperatures recorded on the unexposed surface of the specimen were shown in Table 2. b)
- Deflections have been measured and recorded was shown in Table 3. c)
- Observations made during the test was given in Table 3. d)



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Page 13 of 27



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



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Test Report No. SDFS2311007059FR

Date: Nov.24, 2023

Page 14 of 27

Table 1 The standard temperature and the actual mean temperature within the furnace

Time	Standard Temperature	Actual Mean Temperature
(min)	(°C)	(°C)
0	20	30
5	538	542
10	704	669
15	760	767
20	795	785
25	821	820
30	843	839
35	862	866
40	878	870
45	892	896
50	905	900
55	916	914
60	927	919
65	937	922
70	946	943
75	955	936
80	963	939
85	971	944
90	978	949
95	985	954
100	991	960
105	996	965
110	1001	970
115	1006	974
120	1010	980



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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 15 of 27

Time							Tempe	rature (ແ	C)					
(min)	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	11#	12#	13#	Avg. Tem.
0	30.5	31.0	30.2	29.4	29.9	30.5	30.1	30.8	31.2	30.9	31.1	30.8	30.5	30.5
5	30.6	31.0	30.2	29.4	29.9	30.7	30.1	30.8	31.4	31.1	31.3	30.8	30.5	30.6
10	30.6	31.0	30.2	29.4	29.9	33.9	33.5	31.9	34.2	36.0	36.8	34.0	33.1	32.7
15	31.4	31.8	31.0	29.9	35.3	43.2	46.3	39.3	44.3	47.4	50.4	47.3	45.3	40.2
20	33.3	33.7	32.8	31.1	45.3	53.4	57.9	48.1	55.7	60.0	65.7	59.8	58.3	48.9
25	35.5	36.0	34.9	32.7	53.5	63.0	68.3	56.1	67.7	76.2	84.1	71.7	71.3	57.8
30	38.4	38.1	37.0	34.6	60.5	72.6	78.1	62.8	80.3	91.7	94.8	82.8	83.3	65.8
35	41.3	40.0	39.5	37.2	66.0	81.6	84.8	67.7	88.8	98.4	98.1	89.2	90.3	71.0
40	44.2	42.3	43.7	41.5	70.6	89.0	88.7	72.1	92.8	101.3	100.3	91.6	93.4	74.7
45	48.0	45.8	49.5	46.8	74.6	93.9	90.5	76.7	94.3	104.8	103.9	92.4	94.8	78.2
50	52.5	50.3	56.3	52.9	77.9	96.6	91.6	80.7	95.3	109.4	108.6	92.5	95.7	81.6
55	57.6	55.0	63.7	59.6	80.6	97.7	92.7	82.5	96.2	114.9	114.1	92.6	95.8	84.8
60	63.7	60.6	71.4	66.6	82.8	99.3	93.6	83.5	97.6	121.1	120.2	92.8	96.1	88.4
65	70.0	67.2	78.3	74.3	84.1	100.8	94.3	85.7	99.0	127.9	126.5	93.3	96.3	92.1
70	75.6	75.0	84.1	82.4	85.1	102.2	94.9	88.4	101.0	134.8	133.1	93.9	96.4	95.9
75	81.4	84.0	88.0	88.4	85.7	103.5	95.8	91.9	102.7	141.2	139.9	94.3	96.6	99.5
80	88.0	88.7	90.2	91.3	86.1	104.5	96.6	94.7	104.3	146.4	146.8	94.5	96.5	102.2
85	92.8	90.0	91.2	92.2	86.3	105.3	97.4	97.3	106.3	150.7	153.9	94.7	96.3	104.2
90	94.4	90.2	91.7	92.8	86.7	106.0	98.2	99.8	108.6	154.6	161.4	95.0	96.2	105.8
95	94.5	90.1	92.0	93.1	87.1	106.8	99.2	102.9	110.9	158.6	169.4	95.4	96.3	107.4
100	94.4	90.2	92.4	93.3	87.7	107.7	100.3	105.8	113.5	162.4	177.5	96.1	96.6	109.1
105	94.3	90.4	92.7	93.5	88.3	108.8	101.5	109.3	116.6	166.5	185.6	96.8	96.9	110.9
110	94.3	90.7	93.0	93.5	88.9	110.1	102.8	112.5	119.7	170.7	193.5	97.5	97.3	112.7
115	94.4	91.1	93.2	93.5	89.3	111.5	104.3	115.2	123.1	174.8	200.9	98.4	97.8	114.4
120	94.3	91.3	93.3	93.3	89.6	112.8	105.6	118.1	126.4	178.9	207.8	99.0	98.1	116.0



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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 16 of 27

Table 3 Sample Deflection (At the centre of the sample)

Time (mins)	Deflection(mm)
0	0.0
5	0.9
10	1.7
15	2.6
20	2.8
25	3.9
30	4.4
35	4.6
40	6.4
45	8.0
50	8.3
55	8.3
60	8.9
65	9.3
70	9.1
75	8.9
80	9.4
85	9.1
90	9.2
95	9.0
100	9.6
105	9.8
110	9.5
115	9.8
120	10.2



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Test Report No. SDFS2311007059FR

Date: Nov.24, 2023

Page 17 of 27

Table 4 Observations Made during the Test

Time(min:s)	Observation (All observations are from the unexposed face)
00:00	Furnace fired and test was started.
05:12	A slight amount of smoke released from the ends of the floor assembly.
10:04	Some smoke released from the seam on the unexposed face of the floor assembly.
70:00	No obvious change on the unexposed face of the floor assembly.
90:00	No flames were found emitting from all downlight positions.
100:02	No obvious change on the unexposed face of the floor assembly.
120:00	The floor assembly was maintaining its integrity and insulation.
121:00	Test was terminated as per client requirement.



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No. SDFS2311007059FR

Date: Nov.24, 2023

6. Conditions of Acceptance and Test Results

According to the conditions of acceptance in UL 263:2022, Clause 3.3.8 & 10.6.1 and ASTM E119:2022, Clause 7.3.1.4 & 8.6.6 and CAN/ULC-S101-07, Clause 10.7, the specimen shall have sustained the applied load during the classification period without developing unexposed surface conditions which will ignite cotton waste. 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°C above its initial average temperature; nor shall the temperature rise at any individual point exceed 180°C including a temperature measured by the roving thermocouple.

Test Results Summary	
Items	Test Results
Ignition of cotton	Meet
	Not ignition of cotton
Temperature rise of unexposed surface	The average temperature rise of unexposed surface is 85.5°C.
	The maximum temperature rise of unexposed surface is 177.3°C.

7. Conclusion

The test specimen was found to **comply with** the conditions of acceptance of UL 263:2022/ ASTM E119:2022 /CAN/ULC-S101-07 for 120 minutes fire resistance rating.

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 construction.

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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Photo Appendix:





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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 23 of 27





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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 24 of 27





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Page 25 of 27





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Date: Nov.24, 2023

Page 26 of 27





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No. SDFS2311007059FR

Date: Nov.24, 2023

Page 27 of 27



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- a. Change of applicant's name.
- b. Change of applicant's address.
- c. Change of model name.
- d. Delete the other information.
- e. Delete the manufacturer.
- f. Delete the factory.

End of Report



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