

# WAFERLOCK Corp. **TEST REPORT**

**SCOPE OF WORK** EN 1634-1:2014+A1:2018 TESTING ON ELECTRONIC LOCK, MODEL L701, L700

**REPORT NUMBER** 210609086GZU-001

### **TEST DATE(S)**

2021-07-30

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35



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TESTING of

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## Test Report

Report No.: 210609086GZU-001 Report Date: 2021-08-13

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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

### **REPORT ISSUED TO**

WAFERLOCK Corp. No. 16, Keyuan 2nd Rd., Xitun Dist., Taichung City 407, Taiwan (R.O.C.)

#### **SECTION 1**

SCOPE

Intertek has conducted an evaluation for WAFERLOCK Corp. to determine the fire resistance characteristics of the Electronic lock, Model L701 in Single Leaf Single Action Wooden Composite Fire Door. This test was designed to demonstrate evaluation on the electronic lock of two types including Model L701 and Model L700. This evaluation began on 06/09/21 and was completed on 11/05/21. The test was conducted on 07/30/21.

The test was conducted in accordance with EN 1634-1:2014+A1:2018, Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – Part 1: Fire resistance test for door and shutter assemblies and openable windows.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

**Report Authorized:** 

Authorized By:

Harnison L: Harrison Li Reviewer

Completed By:

Kevin Pan Project Engineer

Noted: If you have any questions for the report, please contact: lillian.lf.he@intertek.com



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### SECTION 2 SUMMARY OF TEST RESULTS

Product Name: Electronic lock Model: L701 & L700

The test assembly satisfied the performance requirements for the following periods:

PERFORMANCE CRITERIA	RESULTS	
	Sustained flaming	68 minutes, no failure
Integrity	Gap gauge	68 minutes, no failure
	Cotton pad	68 minutes, no failure
Insulation		68 minutes, no failure

Doorset A: Opening into the furnace

#### Doorset B: Opening away from the furnace

PERFORMANCE CRITERIA	RESULTS						
	Sustained flaming	68 minutes, no failure					
Integrity	Gap gauge	68 minutes, no failure					
	Cotton pad	68 minutes, no failure					
Insulation		68 minutes, no failure					

The test was discontinued after a period of 68 minutes at the request of the sponsor.

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.

#### SECTION 3

#### **TEST METHOD**

The specimens were evaluated in accordance with the following:

**EN 1634-1:2014+A1:2018,** Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows

EN 1363-1:2020, Fire resistance tests - Part 1: General requirements



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **SECTION 4**

#### MATERIAL SOURCE/INSTALLATION

Test specimen were provided to Intertek directly by the client and were not independently selected for testing. Test specimens were received at the Evaluation Center on 05/24/21 and 11/01/21.

Electronic Lock, Model L701 was tested. The specification of Model L701 and Model L700 was provided by the client.

A description of the test assembly is given in the table below. The description of the specimen is based on a survey of the specimen and information provided by the sponsor of the test. All values quoted below are nominal, unless tolerances are given.

ASSEMBLY U	ASSEMBLY UNITS			DESCRIPTION						
	Туре		Single Leaf Single Action Swing Timber Composite Fire Door Assembly							
	Nominal Size		836	mm wide	2040	mm high	55	mm	thick	
Door	Facing		2.5mm MDI 816kg/m <sup>3</sup>	F (mediur	n densi	ty fiberbo	ard), de	nsity c	of	
2001	Sub-facing		5mm Magn	esium ox	ide boa	rd, densit	y of 133	9kg/m	3	
	Cana	Material	MgO fire co	re board						
	Core	Thickness	40mm, Density: 452kg/m <sup>3</sup>							
	Stile		60mm x 30r	nm solid	merant	ti wood, d	ensity o	f 731k	g/m³	
	Rail		60mm x 30mm solid meranti wood, density of 731kg/m <sup>3</sup>							
	Nominal Size		906	mm wide	2080	mm high	140	rr de	ım pth	
Frame	Material		Facing: 5mm Magnesium oxide board, density of 1339kg/m <sup>3</sup>							
			Fire retardant meranti wood, density of 731kg/m <sup>3</sup>							
		Lock type	Electronic lo	ock, Mod	el: L70	1				
		Lock case	155mm x 84	1.4mm x	13.8mn	า				
	Lock (Test	Backset	55	mm		Latch Thro	w 11		mm	
	Specimen)	Bedding material	Lock case is (material is	protecte solidum :	d by 2n silicate	nm thick f with fiber	ireproo glass m	f board esh)	l	
Hardware		Latch Operation	Latch: Enga	ged		Deadbolt:	Disenga	aged		
		Material and type	Stainless Ste	eel, Mode	el: FRH4	143				
	Hinge	Size	4" x 4" x 3m	ım, Quan	tity: 3					
		Bedding material	Hinge is pro (material is	tected by solidum	y 2mm silicate	thick firep with fiber	roof bo glass m	ard esh)		



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

			Model: 603			
	Door Closer		Installation: Surface mounted on opening face of door leaf			
Intumescent Seal	Туре 1	Model	RP2004W2100, 20mm x 4mm			
		Location	One strip is at right, left and top edge of door leaf. Two strips are at right, left and top of door frame. Two strips are at bottom of door leaf.			

The sample ID number assigned by the test lab is S210609086GZU.001 & S211103155GZU.001.

Documents and samples of electronic lock including Model L701 and Model L700 were checked, and found these locks have the similar design, and the same material. The difference between these two locks was induction panel. Model L701 with button shell was selected to test to cover the other model.

The drawings of the Electronic lock, model L701 and model L700, the drawings of the fire door assembly and test wall construction can be found in Section 6, 7 and 8 respectively.

A comprehensive drawing and Installation Instruction of the Electronic lock are maintained on Intertek file.

These two identical doorsets were installed in a steel restraint frame. The test door was built into a concrete masonry unit partition, with fully mortared joints. The test sample placed in front of the furnace for the fire exposure. Prior to the commencement of the EN 1634-1 fire test, the specimen to be test was checked for operability in the fire test frame by operating from fully closed to fully open, for 25 cycles. The test measurement data was shown in Section 9.

Two identical doorsets were mounted in one test frame. One doorset (A) was mounted so that the leaf swung towards the fire and the other doorset (B) was mounted so that the leaf swung away from the fire. Both door doorsets were tested at the same time.

The nominal dimensions of the test wall were 3.6 m high by 3.6 m wide.

After positioning the assembly frame over the furnace opening, the burners were ignited and the timer was started. Temperatures within the furnace were monitored using thermocouples and the data was recorded. The burners were controlled to keep the furnace temperatures within the allowable limits specified in the test standards. After 5 minutes, the furnace pressure was adjusted so that the neutral plane was established approximately 500 mm above notional floor level. Periodic observations were made of the surfaces of the test assembly during the fire resistance test.

Door deflection relative to the frame, where applicable, was monitored throughout the test. Position for measurement of deflection and unexposed temperature is presented in the drawing of Section 9.



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

SECTION 5

TEST RESULTS

### Integrity

### Doorset A

The assembly withstood the fire resistance test without passage of flame or gases hot enough to ignite cotton waste for 68 minutes. No through openings or penetrations were evident at this 68 minutes fire exposure portion of the test and the door latch remained engaged to the strike. During this 68 minutes fire exposure period no significant flaming was observed on the unexposed face of the assembly.

This assembly therefore met the criteria of the test standards for integrity performance of 68 minutes.

#### Doorset B

The assembly withstood the fire resistance test without passage of flame or gases hot enough to ignite cotton waste for 68 minutes. No through openings or penetrations were evident at this 68 minutes fire exposure portion of the test and the door latch remained engaged to the strike. During this 68 minutes fire exposure period no significant flaming was observed on the unexposed face of the assembly.

This assembly therefore met the criteria of the test standards for integrity performance of 68 minutes.

#### Insulation

#### Doorset A

Transmission of heat through the assembly during the fire resistance test of 68 minutes did not raise the average temperature on the unexposed surface by more than 140°C above its initial value, and did not raise the maximum temperature on the unexposed surface by more than 180°C above the initial mean unexposed face temperature. In addition, the transmission of heat through the assembly did not raise the maximum temperature of the unexposed surface of the frame by more than 360°C for 68 minutes.

This assembly therefore met the criteria of the test standards for insulation performance of 68 minutes.

#### Doorset B

Transmission of heat through the assembly during the fire resistance test of 68 minutes did not raise the average temperature on the unexposed surface by more than 140°C above its initial value, and did not raise the maximum temperature on the unexposed surface by more than 180°C above the initial mean unexposed face temperature. In addition, the transmission of heat through the assembly did not raise the maximum temperature of the unexposed surface of the frame by more than 360°C for 68 minutes.

This assembly therefore met the criteria of the test standards for insulation performance of 68 minutes.

A full set of test data is included in Section 10, and photographs have been presented in Section 11.



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **SECTION 6**

SAMPLE DRAWINGS



#### Exploded Drawing of Model L701



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Drawing of Front Panel and Level Handle of Model L701



5

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Report No.: 210609086GZU-001 Report Date: 2021-08-13



Drawing of Back Panel and Level Handle of Model L701 & Model L700



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **SECTION 7**

FIRE DOOR ASSEMBLY DRAWING



B-B

A-A



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **SECTION 8**

#### **TEST WALL CONSTRUCTION**







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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **SECTION 9**

**TEST MEASUREMENT DATA** 



#### **EXPOSED SIDE**

Clearance dimension in mm at each position													
A	В	С	D	E	F	G	Н	I	J	К	L	М	N
3.6	3.4	4.6	0.1	0.1	0.1	2.0	4.9	7.5	6.6	0.1	0.1	0.1	0.1

DO NOT SCALE

DOOR ASSEMBLY INITIAL CLEARANCES



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13



UNEXPOSED SIDE

Clearance dimension in mm at each position													
A	В	С	D	E	F	G	н	I	J	К	L	М	N
3.2	3.0	2.4	0.1	0.1	0.1	1.4	5.1	5.3	5.1	0.1	0.1	0.1	0.1

DO NOT SCALE

#### DOOR ASSEMBLY INITIAL CLEARANCES



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13



**UNEXPOSED SIDE** 

#### POSITON FOR MEARSURMENT OF HORZITONAL DEFLECTION OF DOORSET A



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Report No.: 210609086GZU-001 Report Date: 2021-08-13



UNEXPOSED SIDE

POSITON FOR MEARSURMENT OF HORZITONAL DEFLECTION OF DOORSET B



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Report No.: 210609086GZU-001 Report Date: 2021-08-13



#### POSITON FOR MEARUSEMENT OF UNEXPOSED TEMPERATURE OF DOORSET A



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Report No.: 210609086GZU-001 Report Date: 2021-08-13



#### POSITON FOR MEARUSEMENT OF UNEXPOSED TEMPERATURE OF DOORSET B



### **Test Report**

**Unexposed Face** 

Thermocouples: Thermocouple Pads:

Pressure Measurements:

Report No.: 210609086GZU-001 Report Date: 2021-08-13

### **SECTION 10**

### TEST DATA

Standards:	EN 1634-1:2014+A1:2018, Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance									
	test for door an	d shutter assemblies and op	enable windows							
Procedure:	Part 1: Fire res	Part 1: Fire resistance test for doors, shutters and openable windows								
Conditioning:	According to EN	11363-1, Section 8								
Equipment:			_							
ITEM		ID								
Vertical furnace	5	BPGZ119-02-01								
Furnace pressu	re gauge	BPGZ119-02-03 ~05								
Test Clock		BPGZ119-02-41	-							
Furnace thermo	ocouple	BPGZ119-02-15 ~23	BPGZ119-02-15 ~23							
Ambient tempe	erature gauge	BPGZ119-02-33	-							
Unexposed the	rmocouple	BPGZ119-02-34~36	_							
Clearance Mea	surements	BPGZ119-02-39	-							
Displacement N	<b>A</b> easurements	BPGZ119-02-40	-							
Digital push-pu	ll gauge	BPGZ033-11								
Heating Condit	ions: Ac	cording to EN 1363-1, Sectio	n 5.1							
Pressure Condi	tions: Ac	cording to EN1363-1, Section	n 5.2							
Ambient Condi	tions: 10	to 40°C according to EN 136	3-1, Section 5.6							
Test Specimen:	: Ac	cording to EN 1634-1, Section	n 6							
Installation of	t <b>est</b> Ac	cording to EN 1634-1, Section	n 7							
specimen:										
Furnace Therm	ocouples: Ac	cording to EN 1634-1, Section	n 9.1.1							

According to EN 1634-1, Section 9.1.2

According to EN 1634-1, Section 9.2

± 90 kg/m<sup>3</sup>

Length and width 30 mm, thickness 2.0 ± 0.5 mm, dry density 900



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **Test Observations:**

Time		All observations are from the unexposed face unless noted otherwise.						
Mins	Secs	All observations are nom the unexposed face unless noted otherwise.						
00	00	Test started.						
01	50	Smoke issued from the bottom edge of doorset A and doorset B.						
02	24	Smoke issued from the lock of doorset A.						
04	29	A lot of smoke issued from the bottom of each doorsets.						
09	09	There was an unidentified liquid emitted from bottom of lock of each doorsets.						
16	21	There was an unidentified liquid emitted from key hole of doorset A lock.						
18	50	Smoke issued from the top edge of lock of doorset A.						
38	21	The keyhole of lock of doorset A burned black.						
43	53	Smoke issued from keyhole of lock of doorset A increased obviously.						
45	16	Smoke issued from the top edge of lock of doorset B.						
53	47	The keyhole of lock of doorset A burned black obviously.						
60	00	Smoke still issued from the top, hinge edge of each doorsets.						
63	00	A cotton pad was applied on the right top of doorset A and the pad was not ignited.						
65	49	A cotton pad was applied on the left top of doorset B and the pad was not ignited.						
68	00	Test was discontinued.						



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **Temperature Data:**

Mean furnace temperature together with temperature-time relationship specified in the standard

Time Mins	Specified Furnace Temperature/ °C	Furnace Mean Temperature/ °C			
0	20	34			
2	446	196			
4	546	493			
6	604	637			
8	645	695			
10	679	717			
12	705	737			
14	729	764			
16	748	780			
18	766	793			
20	781	807			
22	796	819			
24	809	824			
26	821	842			
28	832	853			
30	842	868			
32	852	873			
34	861	883			
36	869	894			
38	877	902			
40	885	910			
42	892	920			
44	899	929			
46	906	942			
48	912	948			
50	918	954			
52	924	959			
54	930	964			
56	935	969			
58	940	973			
60	945	979			
62	950	982			
64	955	986			
66	960	990			
68	964	994			



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### Graph for mean furnace temperature and temperature - time curve specified in the standard





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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### **Unexposed surface temperatures**

#### Doorset A

Time Mins	T1 (°C)	T2 (°C)	T3 (°C)	T4 (°C)	T5 (°C)	Mean temperature (°C)
0	30	30	29	30	30	30
5	31	32	30	32	39	33
10	30	30	30	30	30	30
15	32	31	31	32	32	32
20	36	33	35	35	35	35
25	41	35	39	40	38	39
30	46	38	45	45	42	43
35	52	45	50	50	47	49
40	58	54	55	55	51	55
45	62	59	59	59	55	59
50	67	61	63	63	59	63
55	70	60	67	67	62	65
60	74	63	70	70	65	68
65	77	66	73	72	68	71
68	79	63	75	73	68	72





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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### Unexposed surface temperatures

Time	Т6	T7	Т8	Т9	T10	T11	T12	T13	T14	T15
Mins	(°C)									
0	31	32	30	30	32	31	29	29	27	30
5	32	38	35	30	38	32	30	33	31	31
10	31	35	33	29	34	33	31	30	33	32
15	32	35	34	30	37	40	37	28	33	34
20	35	38	37	33	41	43	46	28	34	35
25	39	44	41	38	46	46	50	29	35	34
30	44	50	44	42	50	47	54	31	35	34
35	49	57	48	47	55	47	55	32	36	34
40	53	63	52	52	60	45	58	34	37	34
45	57	67	55	56	64	47	60	35	39	35
50	61	72	59	59	68	44	63	36	40	35
55	63	75	62	63	70	47	66	37	42	34
60	66	78	65	67	73	49	70	38	45	33
65	69	81	67	69	76	51	76	39	47	34
68	69	83	68	70	76	51	79	39	49	34

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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### Doorset B

Time	T16	T17	T18	T19	Т20	Mean temperature
Mins	(°C)	(°C)	(°C)	(°C)	(°C)	(°C)
0	30	31	32	32	34	32
5	33	33	33	34	36	34
10	30	31	34	34	35	33
15	32	32	36	34	36	34
20	36	35	40	37	39	37
25	40	40	45	45	42	42
30	42	45	51	49	46	47
35	47	50	56	82	51	57
40	50	55	61	84	56	61
45	53	60	66	91	61	66
50	58	64	70	91	65	70
55	61	68	74	90	70	73
60	64	73	78	80	73	74
65	66	77	82	80	76	76
68	67	78	83	80	78	77

# intertek

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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### Unexposed surface temperatures

Time	T21	T22	T23	T24	T25	Т26	T27	T28	T29	Т30
Mins	(°C)									
0	34	35	31	27	28	29	32	27	31	28
5	34	36	33	28	49	63	66	32	36	30
10	34	35	32	28	64	78	91	40	35	30
15	35	35	34	30	70	82	98	54	35	27
20	38	36	36	33	70	83	96	63	40	24
25	42	39	39	44	67	70	90	55	45	16
30	46	45	39	50	74	71	86	56	50	15
35	50	49	41	52	72	76	71	62	56	20
40	54	53	43	55	71	77	68	58	62	26
45	58	56	44	59	73	78	67	58	65	24
50	61	60	43	61	78	81	67	57	70	25
55	65	63	46	62	96	78	70	56	74	29
60	70	64	49	65	128	86	77	59	77	46
65	73	67	50	70	140	87	77	61	80	58
68	75	68	50	74	166	86	79	62	81	60

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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

#### Horizontal Deflection (Positive values indicate movement into the furnace)

#### **Doorset A**

Time	D1	D2	D3	D4	D5	D6	D7
Mins	(mm)						
0	0	0	0	0	0	0	0
10	1	0	0	2	0	0	-2
20	0	0	0	-2	-2	0	-13
30	0	0	0	0	-2	-2	-10
40	0	3	0	0	-5	0	-9
50	1	2	2	0	0	0	-8
55	1	3	2	0	-2	0	-10
60	0	3	5	0	0	0	-5
68	0	2	5	0	0	3	-5

#### **Doorset B**

Time	D8	D9	D10	D11	D12	D13	D14
Mins	(mm)						
0	0	0	0	0	0	0	0
10	-6	0	2	0	-5	-2	-3
20	-7	-2	5	-3	-8	0	-3
30	-6	-3	5	-6	-8	0	-3
40	-5	-2	5	-4	-7	1	-2
50	-5	-3	5	-5	-7	1	0
55	-5	-2	5	-5	-7	1	0
60	-5	0	5	-5	-5	2	3
68	-7	0	6	-5	-5	5	-1

#### **Door Closer Closing Force**

Door Closer Closing Force							
Doorset	Highest gauge reading	Distance	Moment				
	(N)	(m)	(N.m)				
Doorset A	58.3	0.70					
	59.1	0.70	41.7				
	61.2	0.70					
Doorset B	60.1	0.70					
	60.4	0.70	41.8				
	58.6	0.70					



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### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

**Furnace pressure** 





### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

### **SECTION 11**

PHOTOGRAPHS



Photo No. 1 **Exposed Side Prior to the Fire Test** 



Photo No. 2 **Unexposed Side Prior to the Fire Test** 





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Photo No. 3 Unexposed Side after 10 Minutes



Photo No. 4 Unexposed Side after 40 Minutes



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Photo No. 5 Unexposed Side after 68 Minutes



Photo No. 6 Exposed Side of Doorset A after 68 Minutes



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13



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Photo No. 8 **Exposed Side of Doorset B after 68 Minutes** 



### **Test Report**

Report No.: 210609086GZU-001 Report Date: 2021-08-13

### SECTION 12

### **REVISION LOG**

Revision No.	Date	REVISION	Reviser	Reviewer
0	2021-08-11	Original Report Issue	/	/
1	2021-11-16	New model L700 was evaluated and added as requested	Kevin Pan	Harrison Li

Note: The report 210609086GZU-001 with revision No.0 will be replaced with No.1 report, it will be effective from 2021-11-16, and the revision No.0 report will be invalid.