

GUANGDONG YOHOME DOOR CO., LTD

TEST REPORT

SCOPE OF WORK

EN 1634-1:2014+A1:2018 Fire Resistance Testing on Single Leaf Single Action Timber Composite Fireproof Door, Model EN-60MINS, When Installed in Plasterboard Partition

REPORT NUMBER

260227068GZC-001

TEST DATE(S)

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Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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SECTION 1

SCOPE

Intertek has conducted an evaluation for GUANGDONG YOHOME DOOR CO., LTD to determine the fire resistance performance of single-acting, single-leaf timber composite doorset, model EN-60MINS. The doorsets were required to provide a fire separating function and were therefore tested in accordance with EN 1634-1:2014+A1:2018 'Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware Part 1: Fire resistance tests for doors, shutters and openable windows'. This test report should be read in conjunction with that Standard and with EN 1363-1:2020, 'Fire resistance tests Part 1: General requirements'.

The specimens were judged on their ability to comply with the performance criteria for integrity and insulation, as required by EN 1634-1:2014+A1:2018.

SECTION 2

SUMMARY

Summary of Test Doorset

Two identical specimens were tested simultaneously. The specimens referred to Doorset A and Doorset B for the purpose of the test.

The specimen had an overall size of 2390 mm high by 1007 mm wide and incorporated a door leaf of overall dimension 2340 mm high by 920 mm wide by 55 mm thick. The door leaf was hung within a timber composite frame on three stainless steel hinges. The door leaf was constructed of 3 mm thick plywood and 10 mm thick fire-rate board sandwiching a 30 mm thick MgO fire-rated door core. The door leaf included stiles, rails and mid-rails which were made of flame-retardant plywood. The stiles and rails were fixed together by steel staple. One number of 25 mm (w) x 6 mm (t) fire intumescent seal was mortised mounted at vertical edge and top edge of the door leaf. Two numbers of 15 mm (w) x 6 mm (t) fire intumescent seals were mortised mounted at the rabbet of jamb and head of the door frame. One number of 12 mm (w) x 12 mm (t) smoke seal was surfaced mounted at the stop of jamb and head of the door frame. One number of automatic drop seal was fitted at the bottom of door leaf. One number of 60 mm (w) x 12 mm (t) door casing was surfaced mounted around the pull side of the door frame. One number of 223 mm (w) x 27 mm (t) door casing was surfaced mounted at the left, and one number of 250 mm (w) x 12 mm (t) door casing was surfaced mounted at the top, and one number of 60 mm (w) x 12 mm (t) door casing was surfaced mounted at the right of the push side of the door frame. A surface-mounted door closer with regular arm was at the top rim of the door leaf on the pull side. A mortice lock with lever handle was fitted in the door leaf. The doorset was latched but not locked during the test.

The leaf of Doorset A was orientated such that it opened toward the heating conditions of the test.

The leaf of Doorset B was orientated such that it opened away from the heating conditions of the test

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The door frame was installed in 40 x 150 mm steel stud framed wall with one layer of 13 mm thick Sheetrock Firestop Board plasterboard on each side and infilled with two layers of 50 mm mineral wool.

Summary of Test Result

The single-acting, single-leaf timber composite doorset, model EN-60MINS has been subjected to a fire resistance test in accordance with EN 1634-1:2014 +A1:2018, Fire Resistance and Smoke Control Tests for Door, Shutter and Openable Window Assemblies and Elements of Building Hardware

The specimens satisfied the performance requirements specified in EN 1634-1: 2014+A1:2018 for the following periods:

PERFORMANCE CRITERIA	RESULTS	
	DOORSET A	DOORSET B
Integrity(E)		
Sustained flaming	60 minutes (No failure) *	60 minutes (No failure) *
Cotton pad	60 minutes (No failure) *	60 minutes (No failure) *
Gap gauge	60 minutes (No failure) *	60 minutes (No failure) *
Insulation(I₂)	60 minutes (No failure) *	60 minutes (No failure) *

*The test was discontinued after a period of 60 minutes at the request of the sponsor.

Report Authorized:

Authorized By:



Kevin Pan
Reviewer



Completed By:

Jim Li
Project Engineer

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

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SECTION 3

INFORMATION

Sponsor Information

Test Sponsor : GUANGDONG YOHOME DOOR CO., LTD
Room 1101, 11th Floor, Ruiheng Science and Technology Innovation
Address : Park, No. 20 Juyuan South Road, Guicheng Sub-district, Nanhai District,
Foshan City
Manufacturer : GUANGDONG YOHOME INDUSTRIAL CO., LTD
Manufacturer Address : No. 280 Hefu Road, Hecheng Street, Gaoming District, Foshan City

Testing Location

C2-1, Heping Xu, Yongning Street, Zengcheng District, Guangzhou, China.

Witness of the Test

No representative from the sponsor witnessed the test.

SECTION 4

SAMPLE VERIFICATION AND CONSTRUCTION

Sampling / Specimen Selection

The test specimens were provided to Intertek directly by the client and were not independently selected for testing. The test specimens were received in good condition at the Evaluation Center on Sep. 29, 2025 and the sample ID number assigned by the test lab is S260227068GZU.001~002.

Support Construction and Installation

The doorset was mounted within an aperture in a plasterboard partition to form the test construction. The partition was constructed of nominal 150 mm x 50 mm C studs filled with two layers of 50 mm rock wool with one layer of 13 mm thick Sheetrock firestop board plasterboard on both faces. Each specimen was fixed with three self-tapping screws per jamb within an aperture in the partition. The gap between each specimen and plasterboard partition was nominal 15 mm, this gap was filled full depth with fiberglass. Free edges were left at each vertical end of plasterboard partition and the 40 mm gap was filled with fiberglass to create an impermeable barrier. The plasterboard partition was erected by representatives of the laboratory. Installation was conducted by representatives of test sponsor on Sep. 29, 2025.

Conditioning

After installation, the test specimen was subjected to normal laboratory temperatures and conditions between the completion of construction of the test specimen and the start of the test over a total combined time of 11 days. Throughout this period, both temperature and humidity of the laboratory were measured and recorded as being within a range of 27.5°C to 34.5°C and 54.5% to 85.4% respectively.

Test Specimen Construction

A comprehensive description of the test construction is given in the Schedule of Construction Components. The description is based on a detailed survey of the specimens and information supplied by the sponsor of the test.

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PRE-TEST MEASUREMENT

Pre-cycling

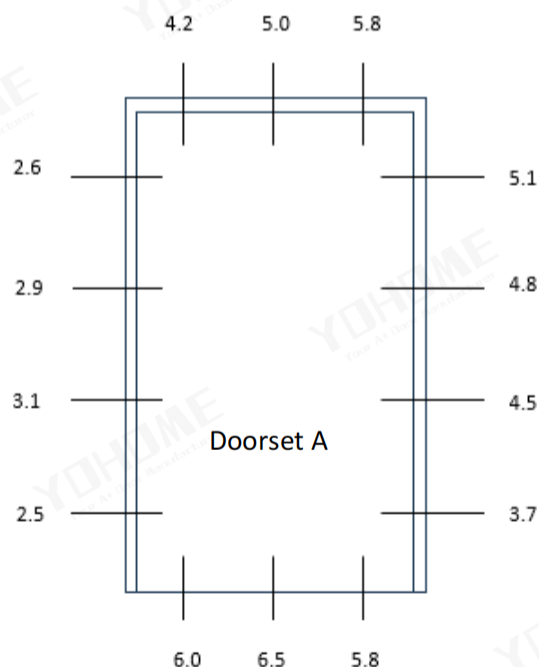
Mechanical conditioning as required in Clause 8.2 of EN 1634-1 in terms of operational ability with the test method referenced to Clause 5.1.1.1 of EN 14600: 2005 had been conducted prior to test. The specimen to be tested was checked for operability in the test frame by operating from fully close to fully open to the maximum possible or at least 90 degrees for 25 cycles.

Retention Force

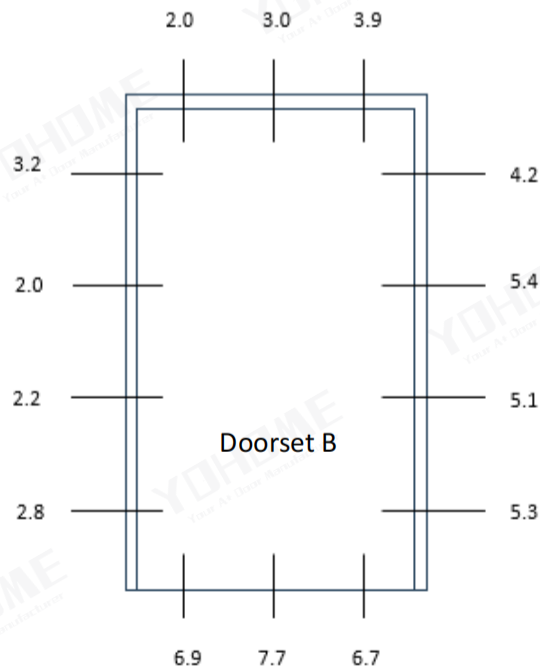
The retention force on the push side was measured in accordance with EN 1634-1:2014 +A1:2018 Section 10.1.3. The average retention force was 36 N at handle position of Doorset A and 36 N at handle position of Doorset B.

Door Gap Measurement

The gaps between the edge of the door leaf and frame were measured and summarized in the following table.



Measured from Exposed Face



Measured from Unexposed Face

Final Setting

The specimen was subjected to a final closing in accordance with EN 1634-1:2014 + A1:2018, Section 10.1.4 which involved opening the door leaf to a distance of approximately 300 mm and returning them to the closed position.

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SECTION 9

INSTRUMENTATION

The instrumentation was provided in accordance with the requirements of the Standard.

Furnace The furnace was controlled so that its mean temperature complied with the requirements of EN 1363-1:2020 Clause 5.1 using nine plate thermometers, distributed over a plane 100 mm from the surface of the test construction.

Thermocouple Allocation Thermocouples were provided to monitor the unexposed surface of the specimen. The output of all instrumentation was recorded at no less than one minute interval as follows:

Thermocouples 11 to 15, 31 to 35 At five positions on the unexposed surface of each doorset, one approximately at the centre and one at the approximate centre of each quarter section of doorset.

Thermocouples 16 to 20, 36 to 40 At five positions on the unexposed surface of the door leaf, positioned at 100 mm from the door leaf vertical edges, two at mid-height, and two at 100 mm below the top edge of the leaf.

Thermocouples 21 to 25, 41 to 45 At five positions on the unexposed surface of the door frame, positioned at 15 mm from the door frame vertical edges, two at mid-height, and two at 15 mm below the top edge of the frame.

Thermocouples 26 to 30, 46 to 50 At five positions on the unexposed surface of separating element, positioned at 100 mm from the door frame vertical edges, two at mid-height, and three at 100 mm above the top edge of the frame.

The locations and reference numbers of the various unexposed surface thermocouples are shown in Section 6.

Roving Thermocouple A 'type K' roving thermocouple was available to measure temperatures on the unexposed surface of the specimen at any position which might appear to be hotter than the temperatures indicated by the fixed thermocouples.

Furnace Pressure After the first five minutes of testing and for the remainder of the test, the furnace atmospheric pressure was controlled so that it complied with the requirements of EN 1363-1:2020. Clause 5.2. The calculated pressure differential relative to the laboratory atmosphere was 13.5Pa at the head of the doorset.

Intergrity Check Gap gauges and cotton pad were provided to evaluate the integrity of the specimen.

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TEST RESULTS

Performance Criteria

The performance of the specimen was assessed against the criteria for integrity and insulation in accordance with EN 1634-1: 2014 +A1:2018. The performance criteria for failure were given as follows:

Integrity: The test specimen continues to maintain its separating function during the test without either:

- 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 pass through the specimen such that the gauge projects into the furnace; or
- c) resulting in sustained flaming for a period of time greater than 10 seconds.

Insulation: The test specimen continues to maintain its separating function during the test without developing temperatures on its unexposed surface which either:

- a) increase the average temperature above the initial average temperature by more than 140°C; or
- b) increase at any perimeter frame member of the doorset above the initial average temperature by more than 360°C; and any other 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.

Test Result

Doorset A

Integrity (E)

No through openings or penetrations were evident at this 60 minutes' fire exposure portion of the test. Neither cotton pad ignition nor significant flaming was observed on the unexposed face of the assembly for 60 minutes.

Insulation (I₂)

Transmission of heat through the assembly during the fire resistance test of 60 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.

The maximum temperature rise was 71.0 °C measured by thermocouple T12 after a heating period of 60 minutes.

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Doorset B

Integrity (E)

No through openings or penetrations were evident at this 60 minutes' fire exposure portion of the test. Neither cotton pad ignition nor significant flaming was observed on the unexposed face of the assembly for 60 minutes.

Insulation (I₂)

Transmission of heat through the assembly during the fire resistance test of 60 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.

The maximum temperature rise was 82.1 °C measured by thermocouple T37 after a heating period of 60 minutes.

SECTION 11

CONCLUSION

The single-acting, single-leaf timber composite fireproof door, model EN-60MINS has been subjected to a fire resistance test in accordance with EN 1634-1:2014 +A1:2018, Fire Resistance and Smoke Control Tests for Door, Shutter and Openable Window Assemblies and Elements of Building Hardware, EN 1363-1:2020, General Requirements.

When tested in accordance with EN 1634-1:2014+A1:2018, the requirements of the standard were satisfied for the following periods:

PERFORMANCE CRITERIA	RESULTS	
	DOORSET A	DOORSET B
Integrity (E)		
Sustained flaming	60 minutes (No failure) *	60 minutes (No failure) *
Cotton pad	60 minutes (No failure) *	60 minutes (No failure) *
Gap gauge	60 minutes (No failure) *	60 minutes (No failure) *
Insulation (I₂)	60 minutes (No failure) *	60 minutes (No failure) *

*The test was discontinued after a period of 60 minutes at the request of the sponsor.

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SECTION 12

LIMITATIONS

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. 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.

The test results are valid only for the conditions under which the test was conducted.

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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SECTION 13

TEST OBSERVATIONS

The ambient air temperature in the vicinity of the test construction was 30.1 °C at the start of the test with maximum variation of +2.3°C during the test.

Time		Doorset	All observations are from the unexposed face unless noted otherwise.
Mins	Secs		
00	00	A & B	Test started.
01	00	A & B	Smoke issued from the top of the doorsets.
03	23	A & B	Heavy white smoke issued around the doorsets.
06	00	A & B	Smoke still issued around the doorsets.
08	15	A	There was unidentified liquid emitted from the handle of the doorset.
10	28	B	There was unidentified liquid emitted from the door closer of the doorset.
13	15	B	There was unidentified liquid emitted from the handle of the doorset.
16	15	A	The leading edge of the door leaf turned yellow.
20	00	A	There was unidentified liquid emitted from the peephole of the doorset.
25	00	B	Heavy smoke issued from the leading edge of the doorset.
30	00	A	Glowing was found at the bottom of the doorset. No integrity failure has occurred.
32	15	B	There was unidentified liquid emitted from the lock cylinder of the doorset.
40	00	A	The peephole and the handle of the door leaf had black discoloration.
43	15	B	The handle of the doorset had red discoloration.
50	00	A & B	Smoke still issued around the doorsets.
51	00	B	The upper left left corner of the door leaf had black discoloration.
53	00	A	There was unidentified liquid emitted from the peephole and the lock cylinder of the doorset.
55	00	B	The handle of the door leaf had black discoloration.
60	20	A & B	Test was discontinued at the request of the sponsor.

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SECTION 14

TEST 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	31
2	445	301
4	544	505
6	603	576
8	645	625
10	678	651
12	705	696
14	728	735
16	748	768
18	766	788
20	781	807
22	796	827
24	809	842
26	820	859
28	832	871
30	842	886
32	851	901
34	860	919
36	869	936
38	877	951
40	885	958
42	892	959
44	899	939
46	906	951
48	912	953
50	918	958
52	924	962
54	930	967
56	935	965
58	940	967
60	945	968

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Individual and Mean Temperatures Recorded on The Unexposed Surface of Door Leaf of Doorset A

Time Mins	T11 (°C)	T12 (°C)	T13 (°C)	T14 (°C)	T15 (°C)	Mean temperature (°C)
0	30.1	29.5	30.6	31.2	25.4	29.4
2	30.1	30.1	31.8	31.2	24.9	29.6
4	30.6	30.1	32.4	31.2	24.9	29.8
6	30.6	30.1	31.8	31.2	24.9	29.7
8	30.6	30.6	30.1	31.2	24.9	29.5
10	30.6	30.6	28.9	31.2	24.9	29.2
12	30.6	30.6	28.9	31.2	24.9	29.2
14	30.1	30.6	28.9	31.2	25.4	29.2
16	30.1	31.2	28.9	31.8	26.0	29.6
18	30.6	31.2	29.5	32.4	26.0	29.9
20	30.6	32.4	30.6	33.0	27.2	30.8
22	30.6	33.5	31.8	34.1	32.4	32.5
24	31.2	35.3	34.1	36.4	33.5	34.1
26	31.8	37.6	37.6	39.0	34.1	36.0
28	33.0	40.7	40.1	41.8	38.2	38.8
30	34.1	43.5	43.5	44.6	41.2	41.4
32	35.3	46.8	46.3	47.4	44.6	44.1
34	36.4	50.2	48.5	50.2	48.0	46.7
36	37.6	53.0	51.3	53.0	51.3	49.2
38	39.0	55.8	54.1	54.7	54.7	51.7
40	40.7	58.6	57.0	55.3	58.6	54.0
42	42.4	60.9	59.2	55.3	60.9	55.7
44	43.5	63.7	61.4	55.3	64.3	57.6
46	44.0	66.5	60.9	56.4	66.5	58.9
48	44.6	67.6	60.3	57.5	65.4	59.1
50	45.2	68.7	60.3	58.1	63.1	59.1
52	45.7	69.3	61.4	58.1	63.7	59.6
54	46.8	69.3	63.7	58.6	62.6	60.2
56	47.4	69.9	65.4	60.9	60.3	60.8
58	48.5	70.4	66.5	63.1	60.9	61.9
60	49.7	71.0	67.6	64.3	60.3	62.6

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Individual Temperatures Recorded on The Unexposed Surface of Door Leaf and Frame of Doorset A

Time Mins	T16 (°C)	T17 (°C)	T18 (°C)	T19 (°C)	T20 (°C)	T21 (°C)	T22 (°C)	T23 (°C)	T24 (°C)	T25 (°C)
0	32.4	31.8	31.2	30.6	23.1	28.9	30.6	30.6	27.8	30.1
2	35.3	40.7	28.9	29.5	23.1	28.3	34.1	33.0	26.6	30.1
4	41.2	42.9	28.9	28.3	23.1	27.8	38.7	32.4	26.6	30.6
6	40.7	40.7	27.2	28.3	23.1	27.8	38.2	31.8	26.0	30.6
8	37.6	38.7	27.2	28.3	23.1	27.2	37.0	31.2	26.0	30.6
10	33.5	34.7	26.6	27.8	23.1	27.2	35.8	30.6	/	31.2
12	32.4	31.2	25.4	27.2	23.7	27.8	34.7	31.2	/	31.2
14	32.4	28.3	25.4	26.0	24.3	27.8	33.0	31.8	/	31.2
16	31.2	26.0	24.3	24.9	23.7	27.8	33.0	32.4	/	31.8
18	33.5	26.0	24.3	25.4	23.7	28.9	33.5	33.0	/	32.4
20	33.5	24.9	23.7	24.9	24.3	31.2	34.1	34.1	/	33.5
22	33.0	24.9	24.3	26.0	24.9	34.1	35.8	35.8	/	35.3
24	33.0	24.9	24.9	28.9	25.4	35.8	37.6	37.6	/	37.0
26	31.8	25.4	27.2	31.8	26.6	37.6	39.0	38.7	53.0	38.7
28	33.5	26.0	28.9	34.1	27.8	39.5	40.7	40.1	54.1	40.7
30	34.7	26.6	32.4	35.8	29.5	40.7	41.8	42.4	55.3	41.8
32	34.1	27.8	35.3	37.6	31.2	42.4	42.9	45.2	57.0	43.5
34	35.8	29.5	37.0	39.0	33.0	43.5	44.0	47.4	58.1	44.0
36	37.0	30.6	38.2	40.7	34.7	44.6	45.2	49.7	58.6	45.2
38	38.2	32.4	39.5	42.4	37.0	45.2	46.3	52.5	59.2	45.7
40	40.7	35.8	41.2	44.0	39.0	46.3	48.0	54.1	59.8	46.8
42	44.6	37.6	42.4	45.7	41.8	47.4	49.1	55.8	59.8	47.4
44	46.8	39.0	42.9	47.4	44.0	48.0	50.2	57.5	53.6	48.5
46	48.5	40.7	44.0	49.1	46.8	48.5	51.9	58.1	53.6	49.1
48	49.1	40.7	45.2	50.8	48.0	49.1	53.0	59.2	53.0	50.2
50	51.9	40.7	46.3	52.5	48.5	49.7	54.1	59.2	53.0	50.8
52	54.1	41.2	47.4	54.1	49.7	50.8	55.3	60.3	53.0	51.9
54	55.8	42.4	49.1	55.8	50.8	51.3	55.8	61.4	53.6	53.0
56	54.1	43.5	52.5	57.5	47.4	51.3	55.8	63.1	57.5	53.6
58	57.5	44.6	52.5	58.6	49.7	53.0	55.3	64.3	64.8	54.7
60	62.6	45.7	54.1	60.3	52.5	54.7	55.3	65.4	65.4	55.3

"/" indicates thermocouple malfunction.

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Individual unexposed surface temperatures of the separating element of Doorset A

Time Mins	T27 (°C)	T28 (°C)	T29 (°C)	T30 (°C)
0	30.1	30.1	30.1	28.9
2	30.1	33.5	30.1	28.9
4	30.1	33.0	30.1	28.9
6	30.6	33.0	29.5	28.9
8	35.3	33.5	30.6	28.9
10	44.6	37.0	36.4	29.5
12	52.5	41.8	47.4	33.0
14	57.5	46.3	61.4	36.4
16	60.3	50.2	68.7	41.2
18	62.0	53.0	69.9	46.3
20	62.6	54.1	68.2	50.8
22	61.4	53.6	65.4	51.9
24	59.8	53.0	61.4	50.8
26	58.1	51.9	60.9	50.2
28	56.4	50.8	58.6	49.7
30	55.8	49.7	57.5	49.1
32	55.3	48.5	57.0	49.1
34	55.8	47.4	56.4	48.5
36	55.3	47.4	55.8	47.4
38	55.3	47.4	55.8	46.8
40	55.3	47.4	55.3	45.2
42	54.7	48.0	54.1	41.8
44	53.6	48.0	43.5	40.1
46	53.6	48.0	42.4	39.5
48	51.9	48.0	41.2	39.5
50	50.8	48.0	41.2	39.5
52	50.2	48.5	41.2	39.5
54	51.3	49.7	42.4	40.1
56	53.0	50.2	44.6	40.1
58	55.3	51.9	60.9	40.1
60	57.5	53.0	61.4	39.5

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Individual and Mean Temperatures Recorded on The Unexposed Surface of Door Leaf of Doorset B

Time Mins	T31 (°C)	T32 (°C)	T33 (°C)	T34 (°C)	T35 (°C)	Mean temperature (°C)
0	29.5	26.0	30.9	29.5	28.9	29.0
2	29.5	26.0	30.9	29.5	28.9	29.0
4	29.5	27.8	30.9	30.1	29.5	29.6
6	30.1	27.8	31.5	31.8	30.6	30.4
8	31.2	27.8	32.1	31.8	30.6	30.7
10	31.2	28.3	32.1	31.8	31.2	30.9
12	30.6	28.3	32.1	32.4	30.1	30.7
14	30.6	28.3	32.1	31.8	28.9	30.3
16	30.1	28.9	32.6	31.2	29.5	30.5
18	30.1	28.9	33.2	32.4	30.6	31.0
20	30.1	30.1	35.0	33.5	31.2	32.0
22	30.6	31.2	37.3	35.8	31.8	33.3
24	30.6	31.2	39.6	38.7	32.4	34.5
26	30.6	34.7	42.1	41.2	34.1	36.5
28	31.8	38.2	44.9	44.6	37.6	39.4
30	32.4	41.2	47.7	48.0	39.5	41.8
32	33.0	44.6	50.5	51.3	42.9	44.5
34	34.1	47.4	53.3	54.1	45.7	46.9
36	34.7	50.2	56.1	56.4	49.1	49.3
38	35.8	53.6	58.4	59.2	51.9	51.8
40	37.0	54.1	60.6	61.4	54.7	53.6
42	38.7	55.3	62.9	63.1	57.0	55.4
44	40.1	56.4	64.6	64.8	58.6	56.9
46	41.2	57.5	66.3	66.5	60.3	58.4
48	42.9	58.6	67.4	67.6	62.0	59.7
50	43.5	59.2	67.9	68.7	62.6	60.4
52	44.0	59.2	69.1	69.3	63.1	60.9
54	45.2	59.8	69.6	70.4	63.1	61.6
56	45.7	59.8	70.2	70.4	62.6	61.7
58	46.8	60.9	70.7	71.0	63.1	62.5
60	48.0	60.9	71.3	71.6	62.6	62.9

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Individual Temperatures Recorded on The Unexposed Surface of Door Leaf and Frame of Doorset B

Time Mins	T36 (°C)	T37 (°C)	T38 (°C)	T39 (°C)	T40 (°C)	T41 (°C)	T42 (°C)	T43 (°C)	T44 (°C)	T45 (°C)
0	30.1	30.6	31.8	29.5	28.9	28.9	28.9	30.1	30.6	30.6
2	30.1	30.6	31.8	29.5	28.9	28.9	33.5	35.8	42.4	33.0
4	29.5	30.0	31.8	31.8	30.1	28.9	29.5	37.0	42.9	37.0
6	28.9	34.6	31.8	34.1	33.5	28.9	29.5	38.2	44.6	39.5
8	30.1	33.4	31.2	32.4	32.4	29.5	30.6	37.6	40.7	41.2
10	30.1	35.2	31.8	31.8	31.8	29.5	35.3	37.0	40.1	41.8
12	28.9	41.0	31.2	32.4	32.4	29.5	31.2	39.0	41.2	38.2
14	27.8	43.9	31.8	30.1	31.2	29.5	40.7	40.7	40.1	39.5
16	27.8	39.8	31.8	28.3	29.5	30.1	45.2	42.9	38.7	41.8
18	27.2	42.1	31.8	28.9	30.1	31.2	45.7	44.6	39.0	41.8
20	27.8	43.9	19.1	29.5	31.2	33.0	46.3	47.4	39.0	41.2
22	26.6	53.7	19.7	30.1	31.8	36.4	46.8	44.0	40.1	41.8
24	27.8	54.8	19.7	30.1	33.0	39.5	45.2	46.8	40.7	43.5
26	28.3	55.4	20.8	30.6	35.8	41.8	45.7	45.2	41.2	44.6
28	28.9	35.8	22.0	32.4	39.5	44.0	49.7	42.9	41.2	44.6
30	30.1	41.0	23.7	34.1	42.9	45.7	51.3	42.9	42.4	47.4
32	31.8	49.6	25.4	35.8	42.9	48.0	51.9	43.5	44.0	48.5
34	33.0	47.9	26.0	38.2	44.6	49.7	53.6	42.9	45.7	50.8
36	34.7	49.6	27.2	39.0	45.7	50.8	55.3	42.9	47.4	53.6
38	37.0	50.2	28.3	41.2	45.7	51.9	57.0	43.5	49.1	56.4
40	39.0	51.9	28.3	42.4	46.8	53.0	58.6	44.0	50.8	55.8
42	42.4	51.9	29.5	42.9	50.2	53.6	59.2	44.6	51.3	58.1
44	45.2	52.5	31.2	44.6	48.0	54.7	60.9	44.6	53.6	58.6
46	46.8	53.1	33.0	46.3	50.8	56.4	60.9	44.6	54.1	61.4
48	48.5	53.7	34.1	48.0	51.3	57.5	60.9	45.2	54.7	62.6
50	49.7	74.1	35.8	49.7	50.2	58.1	61.4	46.3	55.8	62.6
52	50.8	75.4	37.0	50.8	55.8	57.5	55.8	46.8	56.4	62.6
54	51.3	77.8	38.7	51.9	60.3	57.0	56.4	47.4	57.5	64.8
56	51.9	59.5	40.1	54.1	58.1	56.4	56.4	48.0	58.6	66.5
58	53.6	80.9	41.2	55.3	59.2	55.8	57.0	48.0	59.2	67.1
60	54.7	82.1	42.9	57.5	61.4	54.7	56.4	49.7	60.3	68.2

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Individual unexposed surface temperatures of the separating element of Doorset B

Time Mins	T46 (°C)	T47 (°C)	T48 (°C)	T49 (°C)	T50 (°C)
0	29.5	30.6	30.1	30.6	30.1
2	29.5	30.6	30.1	34.1	30.1
4	29.5	29.5	25.4	34.7	30.6
6	29.5	30.1	23.7	34.1	31.2
8	30.1	30.6	23.7	34.7	31.2
10	30.1	32.4	23.7	35.8	31.2
12	31.2	37.6	24.3	35.3	30.6
14	34.1	47.4	25.4	36.4	30.1
16	42.9	57.0	27.8	38.2	31.2
18	54.7	60.9	30.6	38.2	31.2
20	58.1	60.9	35.8	41.2	31.8
22	58.6	59.8	42.9	45.2	33.0
24	57.5	59.2	46.3	49.1	34.7
26	58.1	57.0	48.0	52.5	37.0
28	58.1	56.4	49.7	55.8	40.1
30	58.1	55.3	51.3	59.2	45.7
32	58.6	54.1	52.5	60.9	58.1
34	58.6	52.5	51.9	61.4	62.6
36	59.2	52.5	51.9	60.3	62.0
38	59.2	51.9	51.3	59.2	60.9
40	59.8	50.2	52.5	58.1	59.8
42	59.8	44.0	55.3	57.5	59.2
44	59.2	42.4	49.1	57.0	58.6
46	59.2	41.8	44.0	55.8	58.1
48	59.8	41.2	42.4	55.3	58.1
50	60.3	40.1	42.4	54.1	58.1
52	60.3	39.0	43.5	54.1	57.5
54	59.8	39.0	45.7	53.0	57.5
56	59.2	40.7	46.3	53.0	57.5
58	58.6	46.8	50.2	53.6	58.1
60	58.1	50.2	66.5	54.1	58.1

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Horizontal Deflection

The following table shows the deflection measurements in mm. recorded during the test. Maximum deflection value of the specimen was **BOLDED** at the following table.

Deflection points location is given in Section 6

(+) are for measurements going onto the furnace.

(-) are for measurements going outside the furnace.

Doorset A

Time Mins	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	D6 (mm)	D7 (mm)
0	0	0	0	0	0	0	0
10	0	5	0	0	10	10	10
20	0	5	0	5	20	20	20
30	0	5	0	7	18	21	20
40	0	5	0	10	20	23	22
50	0	5	0	10	20	23	24
55	0	5	5	10	20	20	22
60	0	5	10	10	10	20	20

Doorset B

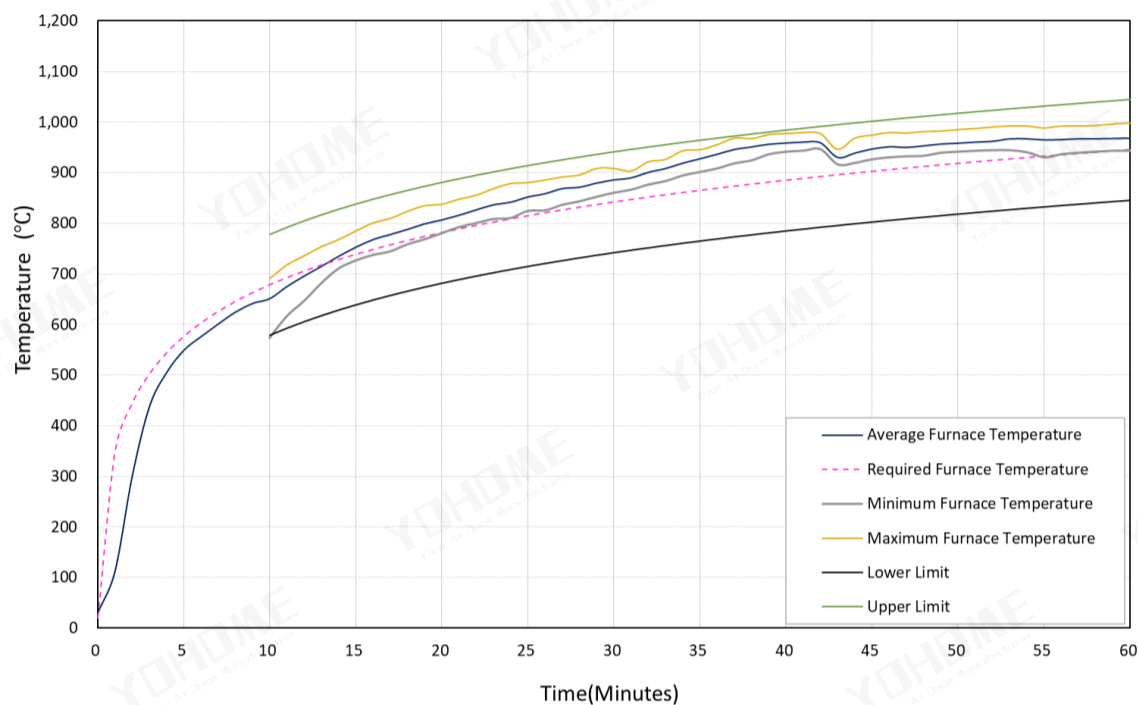
Time Mins	D8 (mm)	D9 (mm)	D10 (mm)	D11 (mm)	D12 (mm)	D13 (mm)	D14 (mm)
0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
20	-5	5	4	4	0	0	0
30	-5	5	1	14	5	10	8
40	-5	5	-1	19	10	25	23
50	-5	7	1	19	12	25	23
55	-12	5	1	19	5	20	20
60	-20	5	4	14	-10	0	10

Test Report

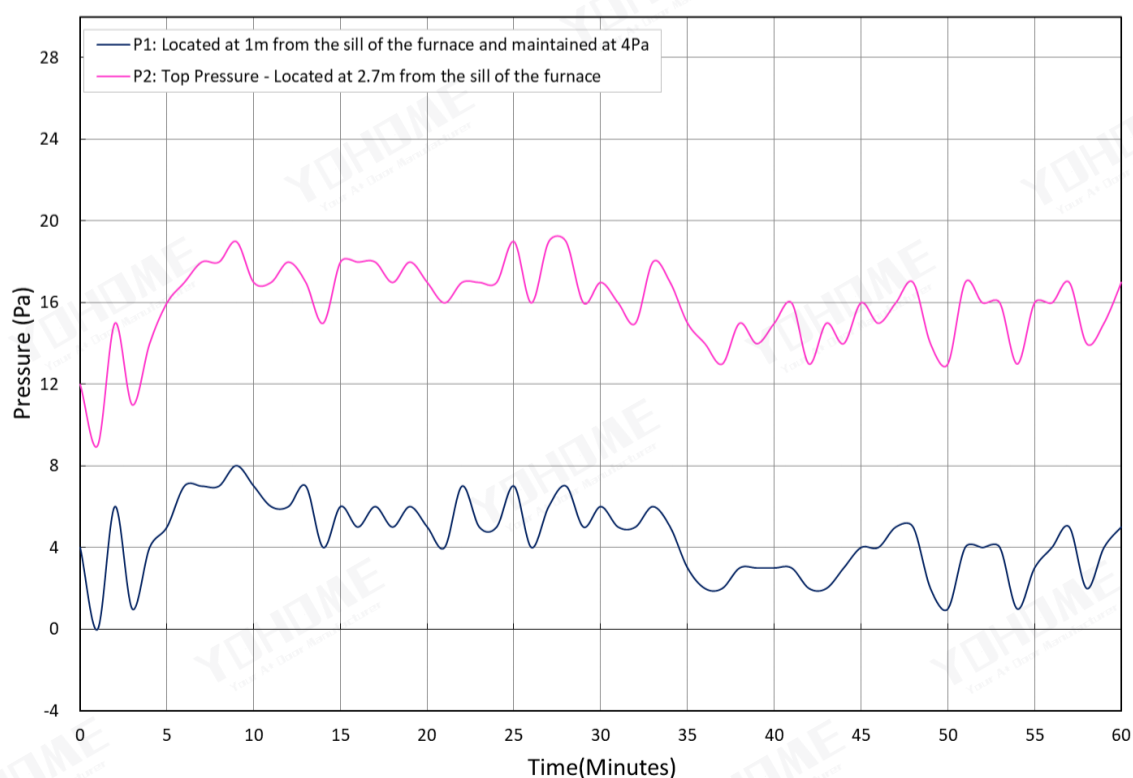
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Graph 1 - Mean Furnace Temperature and Temperature - Time Curve Specified in The Standard



Graph 2 - Furnace Pressure at 1000mm and 2700mm above the sill of the specimen

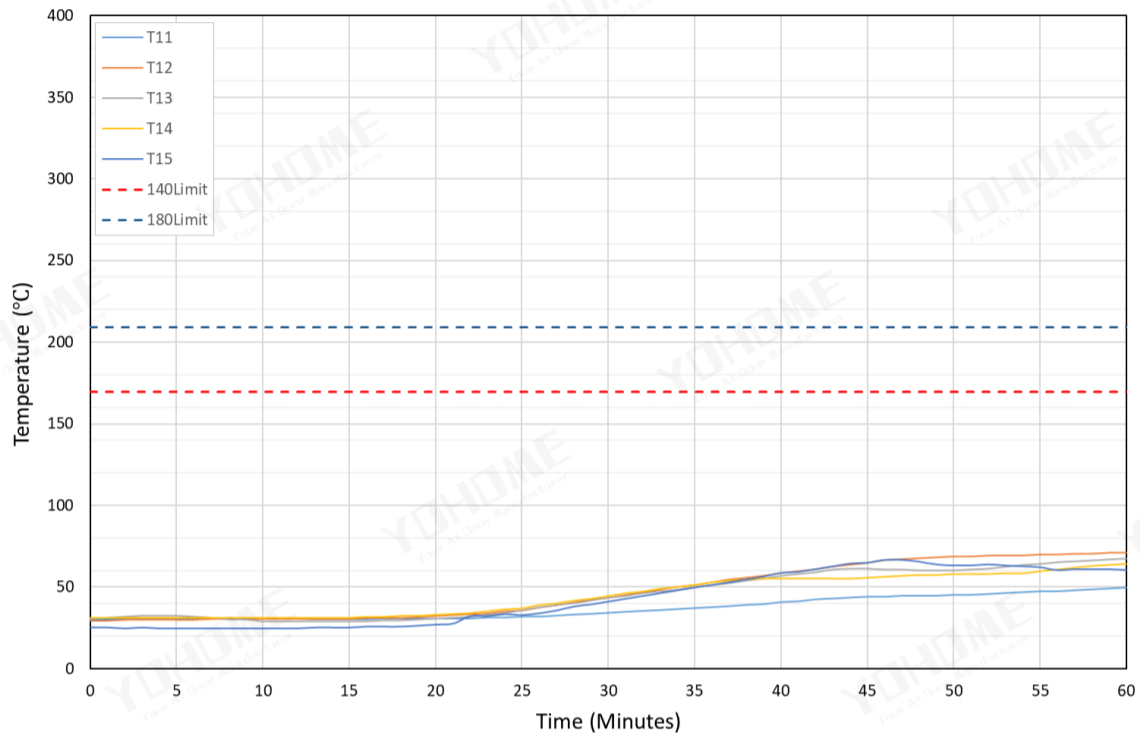


Test Report

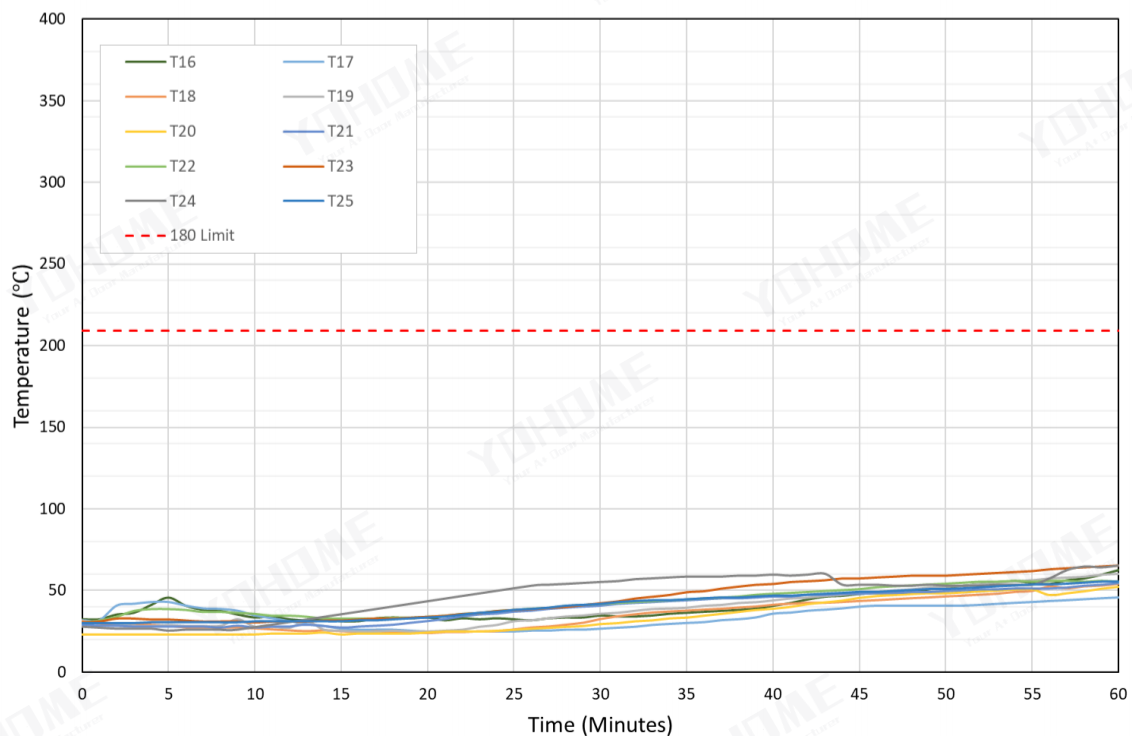
Report No.: 260227068GZC-001

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Graph 3 – Average and Individual Temperature of Door Leaf of Doorset A



Graph 4 - Maximum Temperature of Door Leaf and Frame of Doorset A

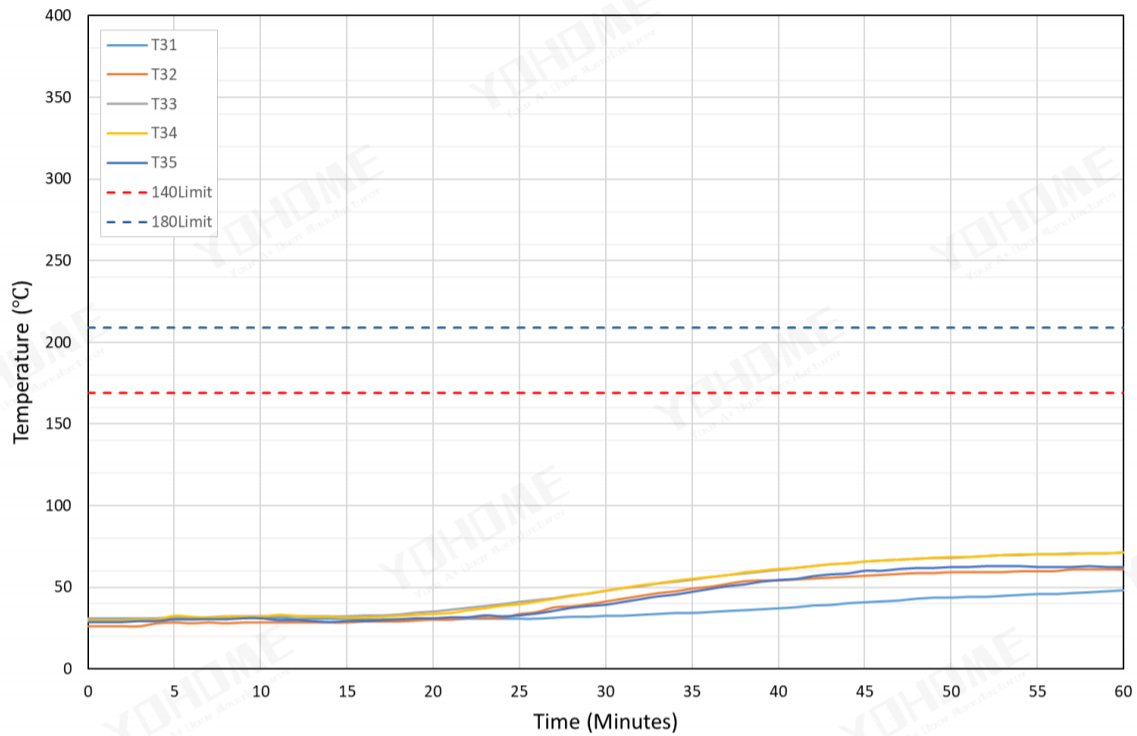


Test Report

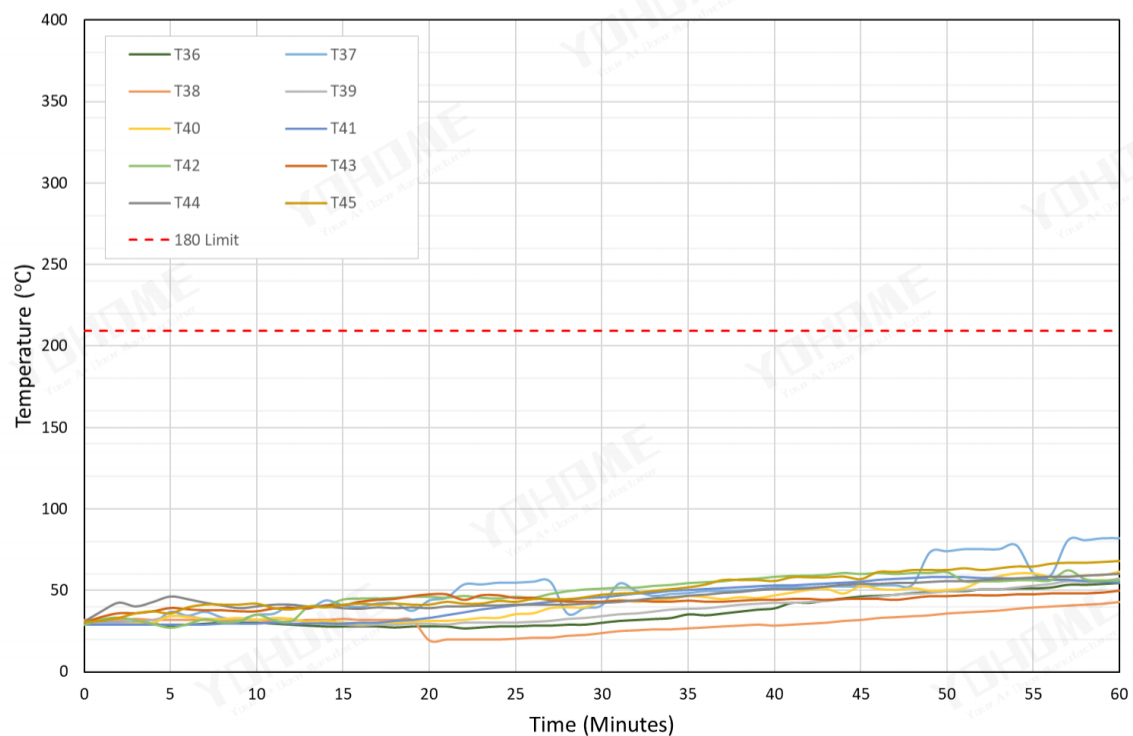
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Graph 5 – Average and Individual Temperature of Door Leaf of Doorset B



Graph 6 - Maximum Temperature of Door Leaf and Frame of Doorset B



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SECTION 15

PHOTOGRAPHS



Photo 1 – Exposed Side Prior to the Fire Test



Photo 2 - Unexposed Side Prior to the Fire Test

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Photo 3 – Latching Mechanism and Intumescent Strip



Photo 4 – Hinge and Intumescent Strip

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Photo 5 – Unexposed Side after 30 Minutes



Photo 6 - Unexposed Side after 60 Minutes

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Photo 7 - Exposed Side after 60 Minutes

SECTION 16

REVISION LOG

Revision No.	Date	REVISION	Reviser	Reviewer
R0	2026-02-27	Original Report Issue	/	/

*****End of Report*****