

EVERPINE GROUP CO., LTD. TEST REPORT

SCOPE OF WORK

UL 10C-2016 (R2021) TESTING ON VISION LITE FRAME, MODEL VP660X1676 IN A STEEL DOOR

REPORT NUMBER

230330002SHF-001

TEST DATE

2023-08-21

ISSUE DATE

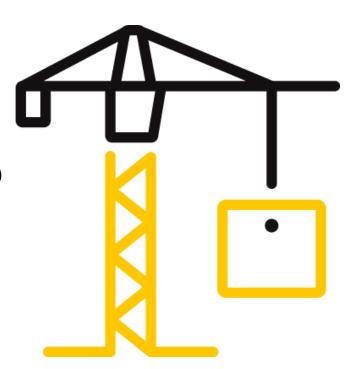
2023-09-11

PAGES

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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10p (September 1, 2022) © 2022 INTERTEK





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TEST REPORT

Issue Date: 2023-09-11 Intertek Report No.: 230330002SHF-001

REPORT ISSUED TO

EVERPINE GROUP CO., LTD.

Room 3308, Central Business District, Vanke Blue-Mountain Community, Binhu New District, Hefei, Anhui, 230601, China

SECTION 1

SCOPE

Intertek has conducted an evaluation for EVERPINE GROUP CO., LTD. to determine the fire resistance characteristics of Vision Lite Frame, model VP660x1676 in a steel door for a 90-minute exposure period with hose stream. This evaluation began on March 30, 2023 and was completed on September 11, 2023. The test was conducted on August 21, 2023.

The test was conducted in accordance with UL 10C-2016 (R2021) under positive furnace pressure.

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

Intertek B&C will service this report for the entire test record retention period. The test record retention period ends six years after the test date. Test records, such as detailed drawings, datasheets or other pertinent project documentation will be retained for the entire test record retention period.

For INTERTEK B&C:

COMPLETED BY:

Adolph Chen

Project Engineer –

Building & Construction

SIGNATURE: Adolph. Chen

DATE: 2023-09-11

Jason Xu
Operation
Building & Date Succession

SIGNATURE:

DATE:

2023-09-11

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SECTION 2

SUMMARY OF TEST RESULTS

Product Name: Vision Lite Frame **Series/Model:** VP660x1676

TEST RESULT:

TITLE	RESULTS
Fire resistance with hose stream test	Met the requirements for a 90-minute exposure period with hose stream

SECTION 3

TEST METHOD

The specimen was evaluated in accordance with the following:

UL 10C-2016 (R2021), Standard for Positive Pressure Fire Tests of Door Assemblies

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SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client and was not independently selected for testing. Test specimen was received at the Evaluation Center on August 4, 2023.

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.

TESTED ASSEMBLY DESCRIPTION					
	Туре	Single Leaf Single Action Swing Steel Fire Door			
	Nominal size	924 mm wide by 2134 mm high by 45 mm thick			
	Facing	1.2 mm thick galvanized steel Q235			
	Core	42.6 mm thick aluminum silicate wool			
	Stiffener	3 mm thick U-profile galvanized steel Q235			
	Edge Channel	1.2 mm thick U-profile galvanized steel Q235			
	Astragal:	1.2 mm thick galvanized steel Q235			
Glass size: 631 Visible size: 613 Vision Lite Fram Sealing Strip: 3 with the perimelite frame Installation: Tw		Glass type: Fire Protection Glazing Glass size: 631 mm wide by 1647 mm high by 5 mm thick Visible size: 613 mm wide by 1629 mm high Vision Lite Frame: 1.2 mm thick Cold Formed Steel Sealing Strip: 3 mm thick aluminum silicate wool pad surround with the perimeter and both sides between the glass and vision lite frame Installation: Two pieces frame member were screwed by M4×50 mm self-tapping screw on unexposed side			
Nominal size		1030 mm wide by 2212 mm high by 150 mm deep			
Frame	Material	1.4 mm thick galvanized steel Q235			
Trame	Installation	Cement mortar grouted and mounted to light concrete block by anchor			
Threshold Material: 1.4 mm thick galvanized steel Q235		1.4 mm thick galvanized steel Q235			
Installation:		Cement mortar grouted			
Hardware	Hinge	Material: Stainless steel hinge, Model: OT H012 Size: 4.5"×4.0"×3.4mm Quantity: 4 pcs			
	Lock	Mortise Lock, Model: OT 720 Latch throw length: 19 mm			

The sample ID number assigned by the test lab is S230330002SHF.001.

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The specimen is described by the client as Vision Lite Frame, model VP660x1676. The drawings of the test Vision Lite Frame and test wall construction can be found in Section 6 and 7 respectively.

The test assembly was installed in a moveable restraint frame and the hardware were installed by the client. The test assembly was placed in front of the furnace for the fire exposure, and was moved away from the furnace for the hose stream test. The test door was built into a concrete masonry unit partition, with fully mortared joints. The door clearances were adjusted so that they complied with installation instruction provided by the customer. The test measurement data was shown in Section 8.

The test door was mounted so as to open into the furnace chamber.

The nominal dimensions of the test wall were 3 m high and 2 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 at approximate 40 in. (1016mm) above the bottom of the door as specified in the applicable positive pressure test standards. Periodic observations were made of the surface of the test assembly during the fire endurance test.

Immediately after the Fire Endurance Test, the assembly frame was moved into position for the Hose Stream Test. The exposed surface of the test assembly was subjected to the impact, erosion, and cooling effects of a hose stream described in the test standards.

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 8.

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SECTION 5

TEST RESULTS

Fire Endurance Test

The measured deflection did not exceed the allowable deflection limit of one time the door thickness during the 90 minutes fire endurance test. The edge adjacent to the door frame did not move from its original position in a direction perpendicular to the plane of the door for a distance greater than the door thickness during the 90 minutes fire test. The actual measurements are presented in test data in Section 9.

During the 90 minutes fire exposure period no flaming was observed on the unexposed face of the assembly. This assembly therefore met the criteria of the test standards for flaming. No through openings or penetrations were evident at the conclusion of the fire exposure portion of the test.

The glazing assembly remained in the opening of door leaf without any separation and glass breakage and did not loosen from its fastenings.

This assembly therefore met the criteria of the fire endurance test for 90 minutes.

Hose Stream Test

According to test methods, hose stream test should be conducted for 35.2 seconds based on a total assembly area of 2.2 square meters and a required duration of 16 seconds per square meter of assembly area. The hose stream water pressure was 207 KPa.

After the hose stream, no through openings were apparent and the door latch remained engaged to the strike. The measured deflection of the edge adjacent to the door frame neither exceed the allowable deflection limit of 1-1/2 times the door thickness, nor more than 67.5 mm after the hose stream test.

The glazing assembly remained in the opening of door leaf without any separation and glass breakage and did not loosen from its fastenings.

This assembly therefore met the hose stream portion of the test.

A full set of test data is included in Section 9, and photographs have been presented in Section 10.

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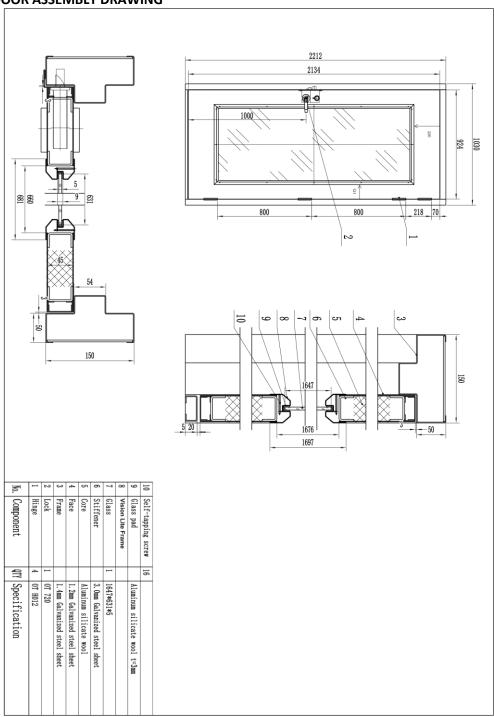
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SECTION 6

FIRE DOOR ASSEMBLY DRAWING

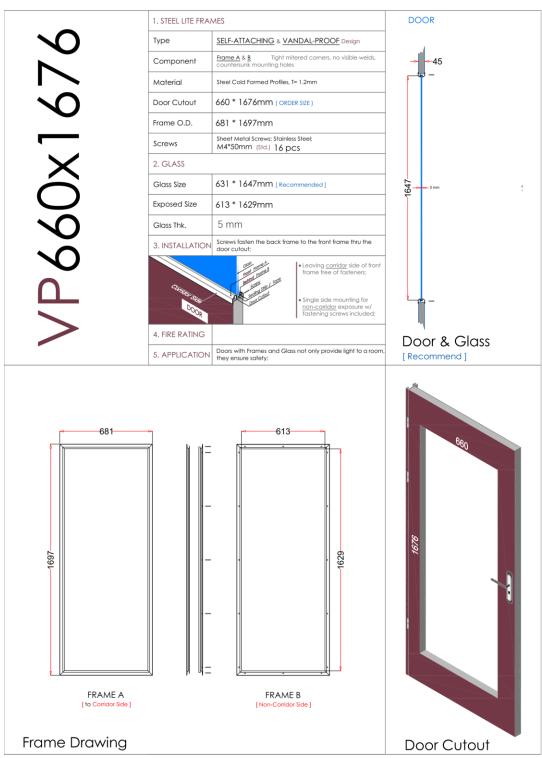


The drawing of the door assembly

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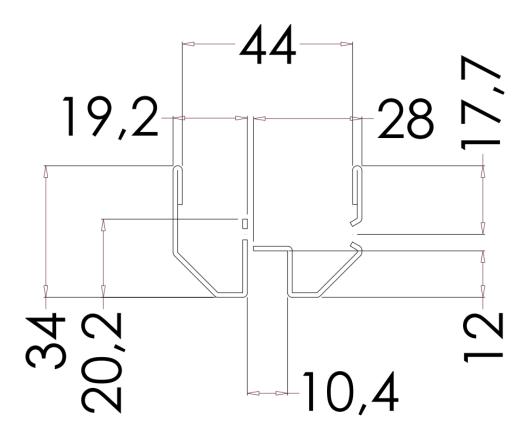
The drawing of the Vision Lite Frame

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Section drawing of the Vision Lite Frame

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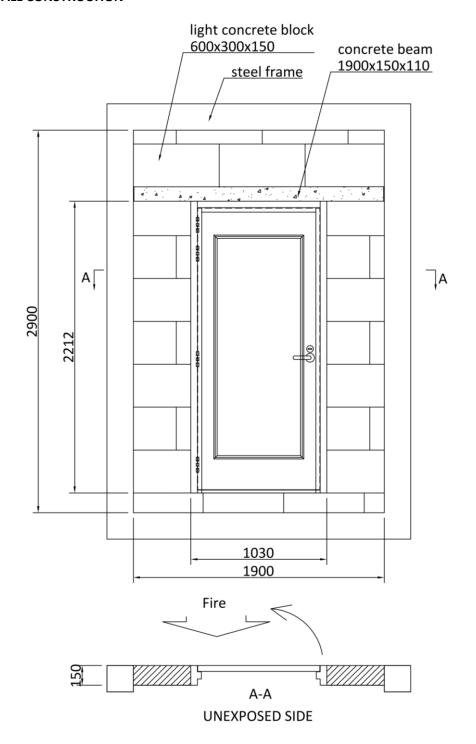
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SECTION 7

TEST WALL CONSTRUCTION



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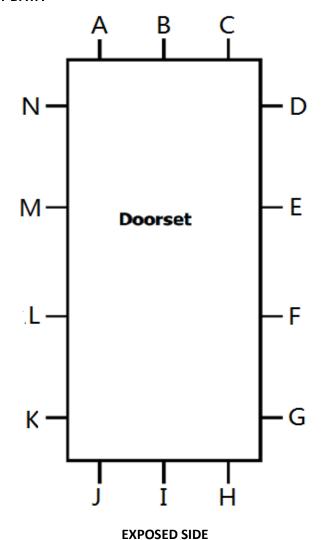
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SECTION 8

TEST MEASUREMENT DATA



Clearance dimension in mm at each position D Ε Α В C F G Н Μ Ν 3.0 2.5 1.8 0.2 1.2 1.5 0.9 5.2 3.8 3.3 3.3 3.9 4.0

DO NOT SCALE

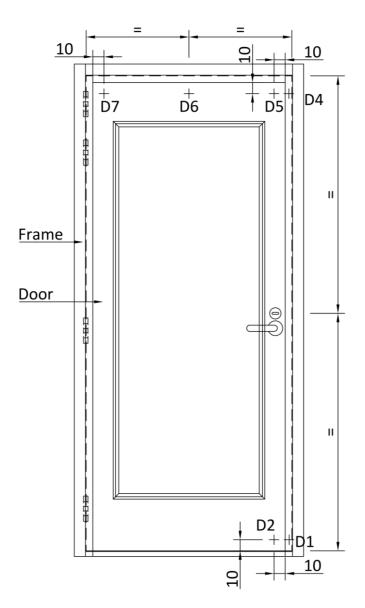
DOOR ASSEMBLY INITIAL CLEARANCES



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UNEXPOSED SIDE

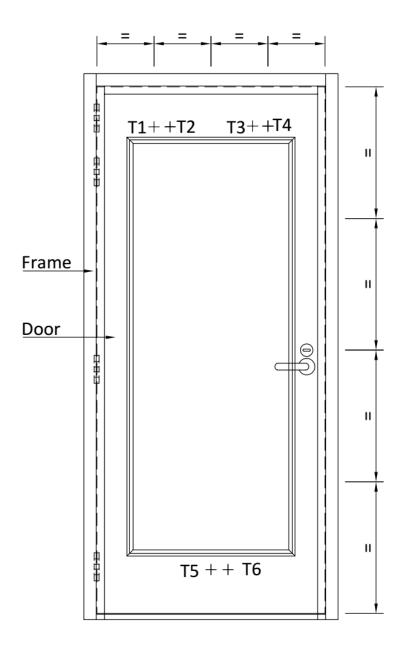
POSITION FOR MEASUREMENT OF HORIZONTAL DEFLECTION



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POSITION FOR MEASUREMENT OF UNEXPOSED TEMPERATURE (Note: T1, T3 and T5 were for reference only)



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SECTION 9

TEST DATA

Standards: UL 10C-2016(R2021) Positive Pressure Fire Tests of Door Assemblies

Equipment:

ITEM	ID
Vertical furnace	SH1098
Furnace pressure gauge	SH1097-15-4 & SH1348
Test Clock	SH1042
Furnace thermocouple	SH1097-1 & SH1097-1-1~5
Ambient temperature gauge	SH1097-11
Unexposed thermocouple	SH1097-12 & SH1097-12-1~5
Clearance Measurements	SH1057-1
Displacement Measurements	SH1377-1~7
Oxygen Analyzer	SH1318

Temperature-Time Curve: According to UL 10C, Section 4
Furnace Temperatures: According to UL 10C, Section 5

Unexposed Temperatures: According to UL 10C, Section 6, measured in the first 30

minutes

Thermocouple Pads: Length and width 30 ± 0.5 mm, thickness 2 ± 0.5 mm, density

of 900 ± 100kg/m³, conductivity 0.053 W/mK at 66°C, modified Brinnell hardness (on soft face) of 2.25 to 4.5

Furnace Pressure: According to UL 10C, Section 7
Construction and Size: According to UL 10C, Section 8
Mounting: According to UL 10C, Section 9
Clearances: According to UL 10C, Section 9.3
Fire Endurance Test: According to UL 10C, Section 11
Hose Stream: According to UL 10C, Section 12

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Fire Endurance Test Observations:

Time		All observations are from the unexposed face unless noted otherwise.		
Mins	Secs	All observations are from the unexposed face unless noted otherwise.		
00	00	Test started.		
02	55	Smoke issued from the leading edge of the door leaf.		
09	43	The cotton pad of T1 fell down.		
13	56	The cotton pad of T3 fell down.		
20	00	Discoloration was observed on the top of the door leaf.		
25	00	The paint of the top left vision lite frame started to fall off.		
28	38	The cotton pad of T5 fell down.		
50	00 The paint of the vision lite frame continued to fall off.			
60	00	No significant change.		
90	00	Fire endurance test was discontinued at the request of the sponsor. The glazing assembly remained in the opening of door leaf without any separation and glass breakage and did not loosen from its fastenings. Test assembly was to be moved into the position for hose stream test.		

Hose Stream Test Observations:

Time		All observations are from the unexposed face unless noted otherwise.			
Mins	Secs	All observations are from the unexposed face unless noted otherwise.			
92	00	Hose stream test started.			
92	35	Hose stream was discontinued. No through openings developed that permitted a projection of water from the stream beyond the unexposed surface during the time of the hose stream. The glazing assembly remained in the opening of door leaf without any separation and glass breakage and did not loosen from its fastenings.			

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Temperature Data:

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

Mins Temperature (°C) Temperature (°C) 0 20 30 3 331 201 6 571 603 9 671 653 12 726 727 15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 <th>Time</th> <th>Specified Furnace</th> <th colspan="3">Furnace Mean</th>	Time	Specified Furnace	Furnace Mean		
3 331 201 6 571 603 9 671 653 12 726 727 15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	Mins	Temperature (°C)	Temperature (°C)		
6 571 603 9 671 653 12 726 727 15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	0	20	30		
9 671 653 12 726 727 15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	3	331	201		
12 726 727 15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	6	571	603		
15 760 759 18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	9	671	653		
18 781 778 21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	12	726	727		
21 800 800 24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	15	760	759		
24 816 813 27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	18	781	778		
27 830 829 30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	21	800	800		
30 843 840 33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	24	816	813		
33 854 854 36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	27	830	829		
36 865 863 39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	30	843	840		
39 875 874 42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	33	854	854		
42 884 882 45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	36	865	863		
45 892 889 48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	39	875	874		
48 900 898 51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	42	884	882		
51 907 906 54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	45	892	889		
54 914 913 57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	48	900	898		
57 920 919 60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	51	907	906		
60 927 925 63 933 932 66 939 937 69 944 942 72 950 948	54	914	913		
63 933 932 66 939 937 69 944 942 72 950 948	57	920	919		
66 939 937 69 944 942 72 950 948	60	927	925		
69 944 942 72 950 948	63	933	932		
72 950 948	66	939	937		
	69	944	942		
75 955 052	72	950	948		
7.5 7.55	75	955	953		
78 960 958	78	960	958		
81 965 963	81	965	963		
84 969 967	84	969	967		
87 974 968	87	974	968		
90 978 970	90	978	970		

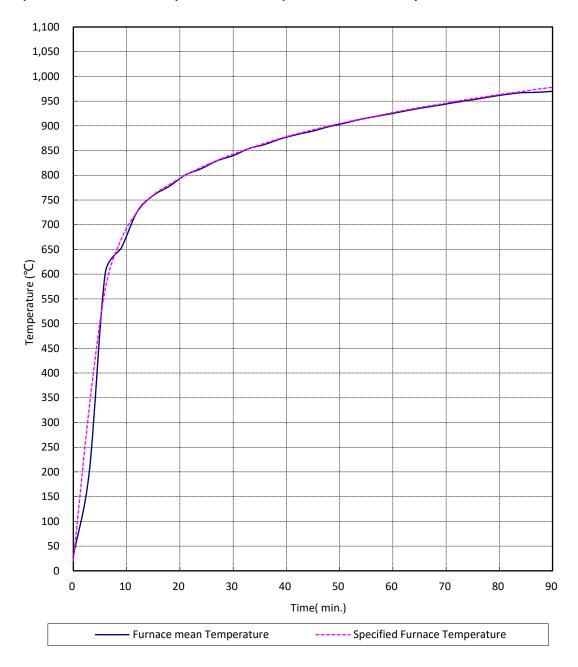


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Graph for mean furnace temperature and temperature-time curve specified in the standard



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Unexposed surface temperatures:

Time	T2	T4	T6
Mins	(°C)	(°C)	(°C)
0	33	33	33
3	55	56	36
6	131	135	60
9	235	249	99
12	307	324	152
15	330	363	231
18	377	406	304
21	429	466	348
24	446	489	391
27	466	505	437
30	400	521	479
33	406	534	482
36	417	548	493
37	417	551	498
38	535	556	500
39	538	560	504
42	541	573	512
45	547	580	521
48	552	591	527
51	557	601	537
54	563	609	544
57	567	606	549
60	572	606	557
63	579	609	564
66	581	618	571
69	583	623	577
72	584	626	582
75	581	629	587
78	578	633	594
81	580	635	597
84	582	638	602
87	584	638	605
90	586	640	607



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Horizontal Deflection (Positive values indicate movement into the furnace)

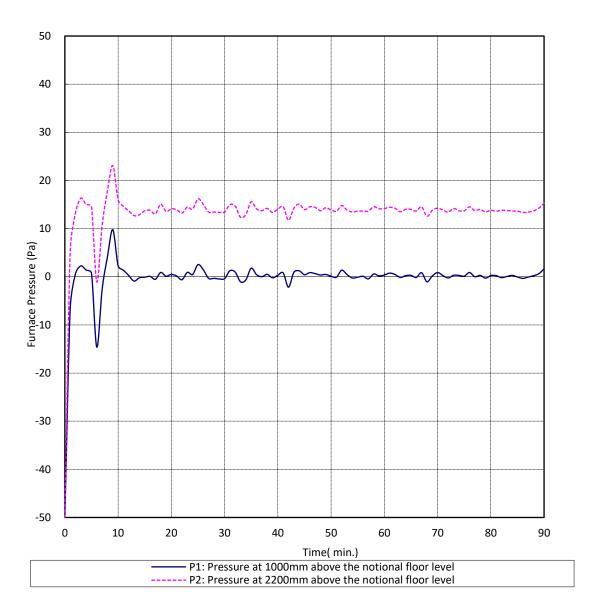
Time (Mins)	Door Frame Separation at Latch for Single Door	Maximum Pair Meeting Edge Displacement (mm)	Maximum Perpendicular Displacement where a positive measurement indicates movement towards the furnace (mm)					
	(mm)	()	D1	D2	D4	D5	D6	D7
Initial	< 12.7	NA	0	0	0	0	0	0
10	< 12.7	NA	1	-2	3	3	5	3
20	< 12.7	NA	1	-1	8	7	11	8
30	< 12.7	NA	2	-1	10	8	14	9
40	< 12.7	NA	2	-2	11	10	15	10
50	< 12.7	NA	2	-3	13	12	18	10
60	< 12.7	NA	2	-2	13	11	17	10
70	< 12.7	NA	2	-4	13	11	17	10
80	< 12.7	NA	1	-3	12	12	17	9
87	< 12.7	NA	1	-4	12	12	16	8
Requirement	< 12.7	NA	Any portion of the edges adjacent to door frame shall not move more than the thickness of the door.					
Hose Stream	< 12.7	NA	< 67.5					
Requirement	< 12.7	NA	Any portion of the edges adjacent to door frame shall not move more than 1-1/2 times the door thickness.					

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Graph for furnace pressure



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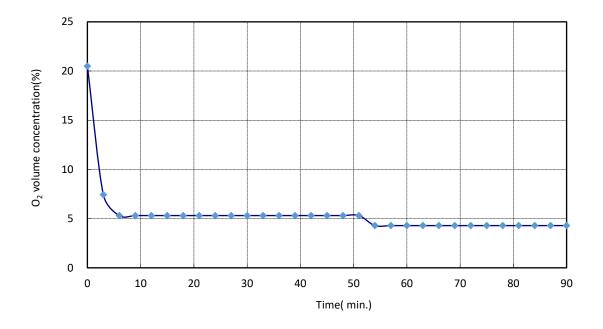


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Graph for oxygen concentration inside furnace



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SECTION 10

PHOTOGRAPHS



Fig. 1 Exposed Side Prior to the Fire Test



Fig. 2 Unexposed Side Prior to the Fire Test

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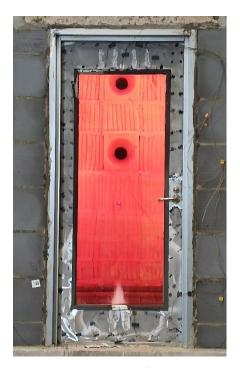


Fig. 3 Unexposed Side after 30 Minutes

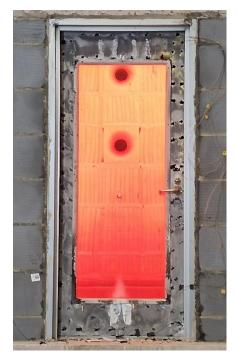


Fig. 4 Unexposed Side after 60 Minutes

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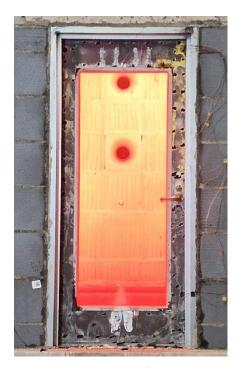


Fig. 5 Unexposed Side after 90 Minutes



Fig. 6 Exposed Side after 90 Minutes

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Fig. 7 Unexposed Side after Hose Stream Test



Fig. 8 Exposed Side after Hose Stream Test



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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
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