







Date: Apr. 22, 2024

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Applicant

NO.: BITFR202404076

: BRD NEW MATERIALS CO.,LTD

WEST SOUTHERN OF WEIWU ROAD CHANGGE CITY, HENAN,

CHINA

The following sample(s) was / were submitted and identified by client, BITFR, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client, results apply to the sample as received.

Name of Sample(s)

: Rock wool sandwich panel

Description of Sample(s): Type/Model: 100mm

Producer: BRD NEW MATERIALS CO, LTD

Number of sample: RW100

Date Sample(s) Received : Apr. 10, 2024

Date Tested

: Apr. 12, 2024 TO Apr. 16, 2024

Test Requested

: UL 263-2020 Fire Tests of Building Construction and Materials,

clause 7: Nonbearing walls and partitions test

Test Results

: According to the test results, the submitted sample fire resistance

performance as follows:

Fire resistance time: ≥60 min.

Conclusion

: According to the test results, the submitted sample meets the

requirement of 1.0 h fire resistance test.

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Checked by: Kevin Chen

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Approved by: Eric Had



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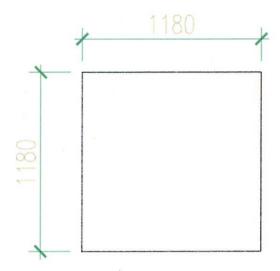
Test Conducted

This test was conducted in accordance with UL 263-2020 Fire Tests of Building Construction and Materials, clause 7: Nonbearing walls and partitions test.

II. Sample Details

Sample description	description Rock wool sandwich panel			
Separating elements	Vertical			
Exposed surface	Any suface			

III. Examination of specimen and Installation





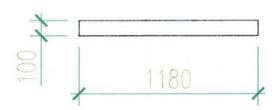


Figure 1-Sample size(mm)



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IV. Test Results

Clause	Conditions of acceptance	Result
	During the tests, the construction shall have complied with the	
	following conditions:	60 min, the
	a) The wall or partition shall have sustained the fire endurance test	cotton pad was
	without passage of flame or passage of gases hot enough to	not ignited.
	ignite cotton waste during the classification period.	
UL 263-	b) The wall or partition shall have sustained the hose stream test	No passage of
2020 7.3.1	without development of an opening that would permit a projection	water to other
	of water from the hose stream beyond the unexposed surface.	side.
	c) Transmission of heat through the wall or partition during the	
	classification period shall not have raised the temperature on its	
	unexposed surface to more than 250° F (139 °C) above its initial	60 min, the
	temperature.	average
	Where the conditions of acceptance place a limitation on the rise	temperature rise
	of temperature of the unexposed surface, the temperature end	was 105 °C, the
UL 263-	point of the fire-resistance period shall be determined by the	top of
2020 3.3.8	average of the measurements taken at individual points; except	temperature rise
2020 3.3.0	that if a temperature rise 30% in excess of the specified limit	was 112 °C.
	occurs at any one of these points, the remainder shall be ignored	
-	and the fire-resistance period judged as ended.	

V. Test behavior:

Fire-resistance test observations

Time(mm:ss)	Test behavior
00:00	Test started.
60:21	Sample kept fire resistance, ended of testing(Meet customer mandate time).

Hose stream test

Time(mm:ss)	Test behavior
00:00	Hose-stream test started.
00:10	No passage of water to other side. Ended of testing.



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VI. Conclusion

The specimen satisfied the performance requirements for the following period:

Fire resistance time: ≥60 min

Hose stream test: Pass

VII. Statement

The test report shall provide detailed structural data of the specimen, test conditions and experimental results obtained from the test of the specimen according to the method specified in this Part UL 263-2020. The test results are invalid if the specimen has large deviations in terms of size, detailed structural data, load, stress, constraint or boundary conditions.

VIII. Test result curve:

The following data were collected during the test:

- a) The standard and actual furnace temperature / time curve, as shown in Figure 2.
- b) The temperature / time curve of unexposed surface, as shown in Figure 3.
- c) Unexposed surface temperature, as shown in Table 1.
- d) Temperature in the furnace, as shown in Table 2.



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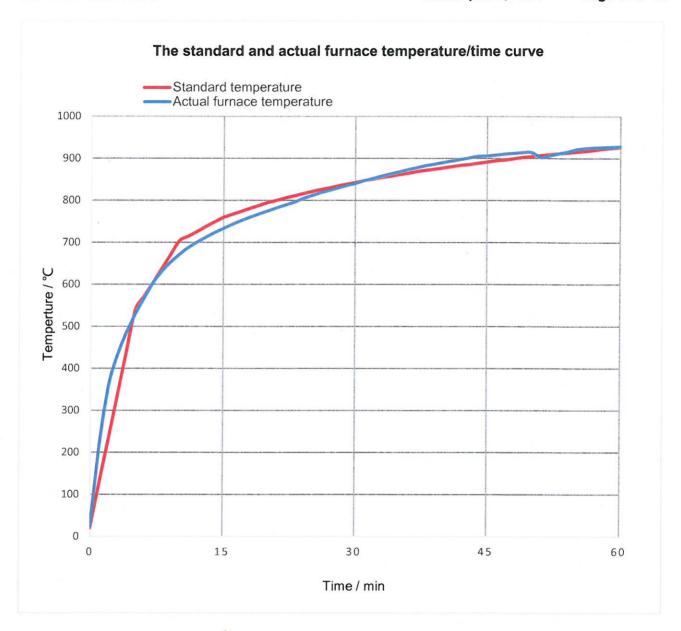


Figure 2 - The standard and actual furnace temperature / time curve



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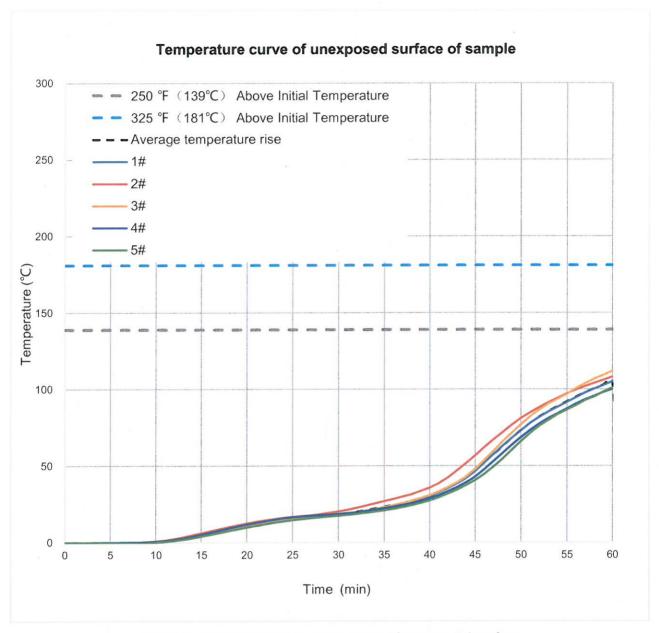


Figure 3 - The temperature / time curve of unexposed surface



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Table 1 - Unexposed surface temperature

Time	Thermocouple No.					
(min)	1#(°C)	2#(°C)	3#(°C)	4#(°C)	5#(°C)	
0	0	0	0	0	0	
0.5	0	0	0	0	0	
1	0	0	0	0	0	
1.5	0	0	0	0	0	
2	0	0	0	0	0	
2.5	0	0	0	0	0	
3	0	0	0	0	0	
3.5	0	0	0	0	0	
4	0	0	0	0	0	
4.5	0	0	0	0	0	
5	0	0	0	0	0	
5.5	0	0	0	0	0	
6	0	0	0	0	0	
6.5	0	0	0	0	. 0	
7	0	0	0	0	0	
7.5	0	0	0	0	0	
8	0	0	0	0	0	
8.5	0	0	0	0	0	
9	0	0	0	0	0	
9.5	0	1	0	1	0	
10	0	1	0	1	0	
10.5	1	2	1	1	0	
11	1	2	1	1	0	
11.5	1	2	1	2	1	
12	1	2	1	2	1	
12.5	2	3	2	3	2	
13	2	4	2	3	2	
13.5	3	5	3	4	3	
14	3	5	3	4	3	
14.5	4	6	4	5	4	
15	5	6	5	5	4	
15.5	6	7	6	6	5	
16	6	8	6	6	5	
16.5	7	9	7	7	6	
17	7	9	7	8	6	
17.5	8	10	8	9	7	



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Time	Thermocouple No.					
(min)	1#(°C)	2#(°C)	3#(°C)	4#(°C)	5#(°C)	
18	8	10	8	9	8	
18.5	9	11	9	10	9	
19	9	11	10	10	9	
19.5	10	12	11	11	10	
20	11	13	11	12	10	
20.5	12	14	12	13	11	
21	12	14	12	13	11	
21.5	13	15	13	14	12	
22	13	15	13	14	12	
22.5	14	15	14	15	13	
23	14	15	14	15	13	
23.5	14	16	15	16	14	
24	14	16	15	16	14	
24.5	15	17	16	16	15	
25	15	17	16	16	15	
25.5	16	17	16	17	15	
26	16	17	16	17	15	
26.5	16	18	17	17	16	
27	16	18	17	17	16	
27.5	17	19	17	18	16	
28	17	19	17	18	16	
28.5	17	19	18	18	17	
29	17	19	18	18	17	
29.5	18	20	18	19	17	
30	18	20	18	19	17	
30.5	18	21	19	19	18	
31	18	21	19	19	18	
31.5	19	22	20	20	19	
32	19	23	20	20	19	
32.5	20	24	21	20	19	
33	20	24	21	20	19	
33.5	21	25	22	21	20	
34	21	25	22	21	20	
34.5	22	26	23	22	21	
35	23	27	23	22	21	
35.5	24	28	24	23	22	
36	24	28	24	23	22	



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Time	Thermocouple No.				
(min)	1#(°C)	2#(°C)	3#(°C)	4#(°C)	5#(°C
36.5	25	29	25	24	23
37	25	30	26	24	23
37.5	26	31	27	25	24
38	27	32	27	26	24
38.5	28	33	28	27	25
39	28	34	29	. 27	26
39.5	29	35	30	28	27
40	30	36	31	29	27
40.5	32	38	32	30	28
41	33	39	33	31	29
41.5	34	41	35	32	31
42	35	42	36	33	32
42.5	37	45	38	35	33
43	38	47	39	36	34
43.5	40	50	41	38	36
44	42	52	43	39	37
44.5	44	55	46	41	39
45	46	57	48	43	41
45.5	49	60	51	46	43
46	52	62	54	48	44
46.5	55	65	57	51	47
47	57	67	60	53	49
47.5	60	70	63	56	52
48	63	72	66	58	55
48.5	66	75	69	61	58
49	68	77	72	63	60
49.5	71	79	75	66	63
50	73	81	77	69	66
50.5	76	83	80	71	69
51	78	85	82	73	71
51.5	80	87	85	75	74
52	82	88	87	77	76
52.5	84	90	89	79	78
53	85	91	91	81	80
53.5	87	93	93	83	82
54	88	94	94	84	84
54.5	90	96	96	86	86



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Time	Thermocouple No.				
(min)	1#(°C)	2#(°C)	3#(°C)	4#(°C)	5#(°C)
55	91	97	97	87	87
55.5	93	99	99	89	88
56	95	100	101	90	89
56.5	97	101	103	92	91
57	98	102	104	93	93
57.5	99	103	106	94	94
58	100	104	107	95	95
58.5	102	105	108	97	97
59	103	106	109	98	98
59.5	104	107	111	99	100
60	105	108	112	100	101



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Table 2 - Temperature in the furnace

TIME (min)	Standard temperature (℃)	Actual furnace temperature	TIME (min)	Standard temperature (°C)	Actual furnace temperature
0	20	24	31	847	847
1	124	215	32	851	852
2	227	356	33	855	858
3	331	430	34	858	863
4	434	484	35	862	868
5	538	529	36	865	873
6	571	567	37	869	878
7	604	604	38	872	883
8	638	632	39	875	886
9	. 671	653	40	878	890
10	704	672	41	881	894
11	715	688	42	884	898
12	726	701	43	886	902
13	738	713	44	889	905
14	749	724	45	892	906
15	760	734	46	895	908
16	767	743	47	897	911
17	774	752	48	900	913
18	781	760	49	903	914
19	788	767	50	905	915
20	795	774	51	907	902
21	800	782	52	910	907
22	806	788	53	912	912
23	811	795	54	914	916
24	816	804	55	916	922
25	821	811	56	918	925
26	826	818	57	920	926
27	830	824	58	923	927
28	835	829	59	925	927
29	839	835	60	927	929
30	843	840			

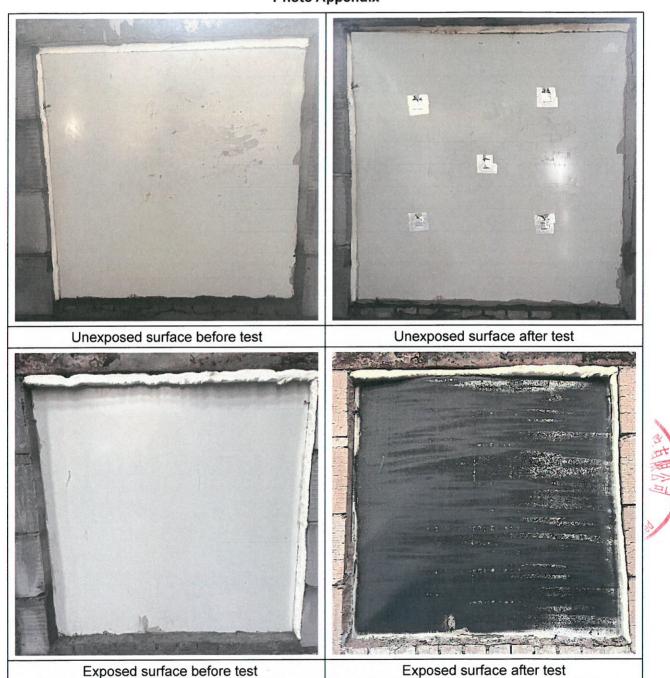


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Photo Appendix



End of Report*