

报告编号 (No.): CYCS2503



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检验报告

Test Report

报告编号 (No.): CYCS2503

委托单位: /

制造单位 Manufacturer: Nanjing Everpeak Technology Co., Ltd.

样品名称 Samples Type: Calcium Silicate Board

型号规格 Model: FS900

报告日期 Report Date: 2025.3.27

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Appendix 1 Test photos	错误! 未定义书签。

一、Test Introduction

The “38mm thick Firesafe-900” calcium silicate board was fixed on the test furnace frame simulating the fire temperature rise to test the fire resistance.

二、Reference Standard

GB/T 9978.1-2008 Fire resistance test methods for building components
Part 1: General requirements

NFPA-252-2003 Standard Methods of Fire Tests of Door Assemblies

三、Test Date & Environment Temperature

Assembly Date: 2025.3.25

Test Date: 2025.3.25

Environment Temperature: 19℃

四、Samples Status

Material: Fiber Reinforced Calcium Silicate Board

Samples Size: 900mm×800mm×38mm (L×W×T)

Density: 900kg/m³

五、Test General Instruction

The sample is installed in the sample installation frame, and the gap is filled with fireproof cotton. The arrangement of the fireproof cotton should cover the plate as much as possible to avoid the influence of side heat leakage on the results. The installation frame is fixed at the furnace mouth of the test furnace using the tightening device of the test furnace, as shown in Figure 1. The corresponding thermocouple is arranged at the specified position of the sample, as shown in Figure 2.

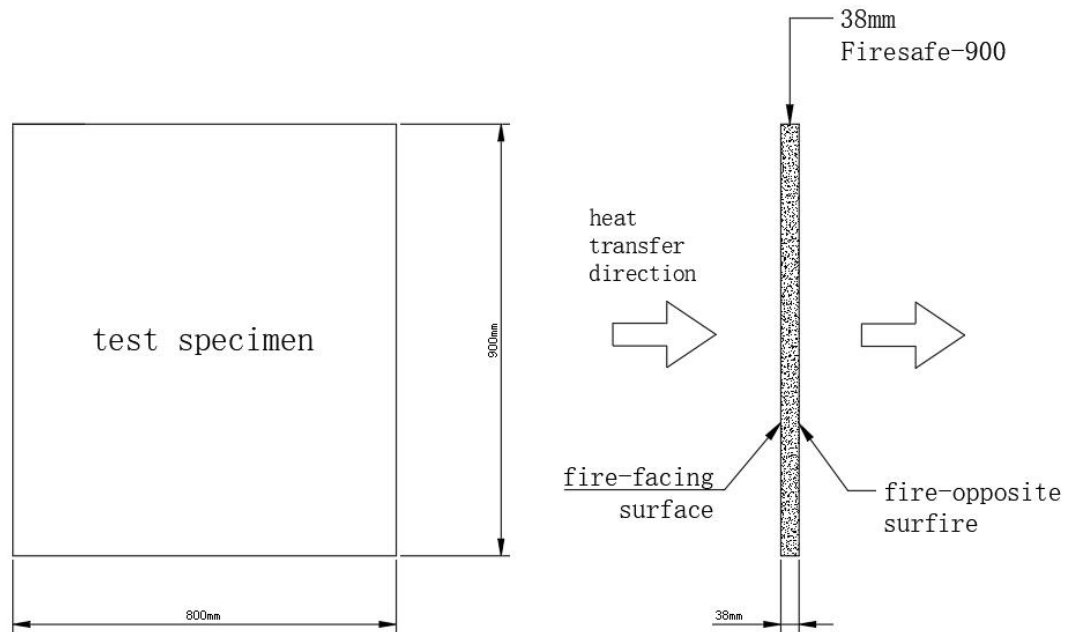


图 1 试样耐火示意图

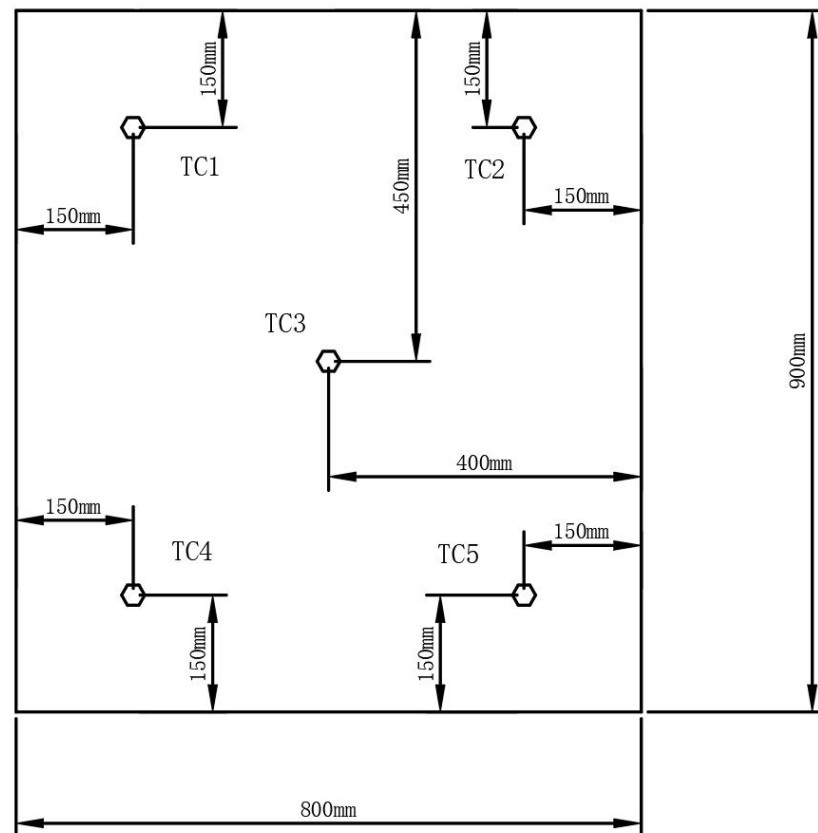


Figure 2 Thermocouple arrangement diagram of the fire-resistant test specimen on the back side

六、Test Result

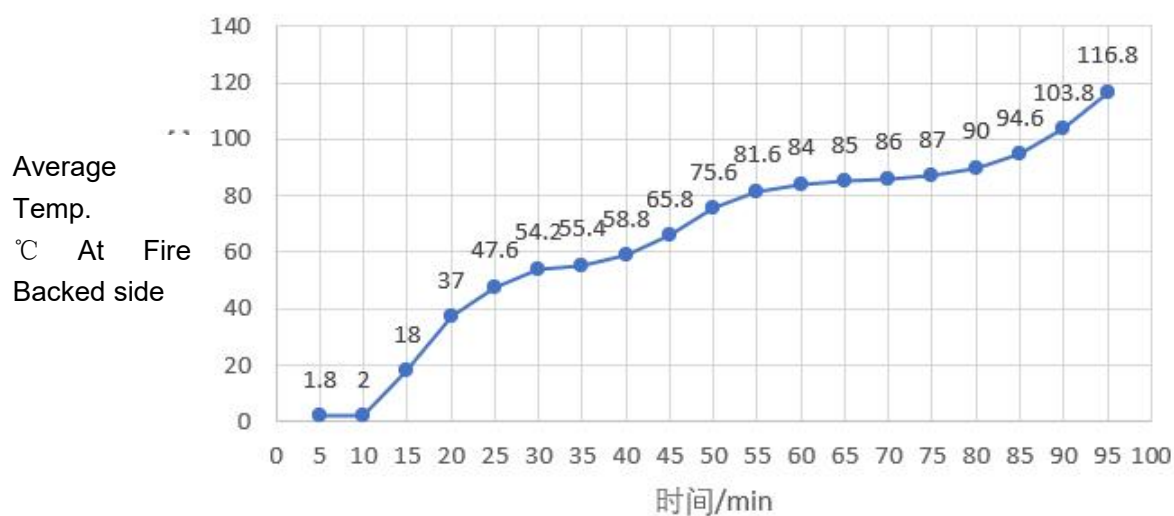
From the data in the table, we can see that the sample (Firesafe-900)

Heat Insulation: > 90min

Integrity: The back-fired side of the plate remained intact during the test without any cracking.

No.	Time /min	Furnace Temp. °C	Standard Temp. Rise	Test Point 1	Test Point 2	Test Point 3	Test Point 4	Test Point 5	Average Temp. °C	Average Temp. Rise °C
1	5	627	538	17	19	23	22	23	20.8	1.8
2	10	639	704	17	19	23	23	23	21	2
3	15	717	760	32	37	36	38	42	37	18
4	20	759	795	52	58	56	56	58	56	37
5	25	792	821	64	69	69	66	65	66.6	47.6
6	30	828	843	72	75	77	72	70	73.2	54.2
7	35	846	862	73	76	78	73	72	74.4	55.4
8	40	870	878	77	77	80	76	79	77.8	58.8
9	45	887	892	82	82	85	83	92	84.8	65.8
10	50	903	905	90	88	99	95	101	94.6	75.6
11	55	915	916	97	94	103	104	105	100.6	81.6
12	60	931	927	100	97	106	107	105	103	84
13	65	947	937	101	98	108	109	104	104	85
14	70	955	946	101	99	110	110	105	105	86
15	75	967	955	100	100	111	111	108	106	87
16	80	979	963	101	100	113	113	118	109	90
17	85	981	971	102	101	114	118	133	113.6	94.6
18	90	993	978	105	104	119	135	151	122.8	103.8
19	95	1002	985	112	109	136	152	170	135.8	116.8

Average Temp. Rise



Appendix Test Photos

System Monitoring Data Chart:

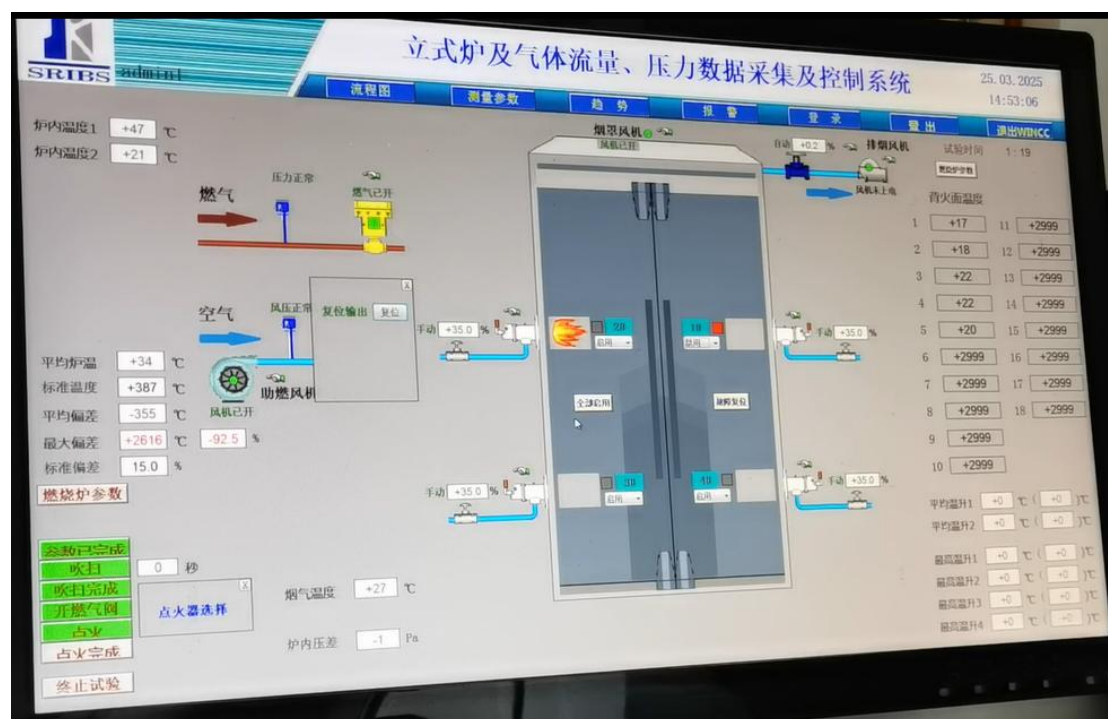


Figure 1: System Monitoring Data at the beginning of test

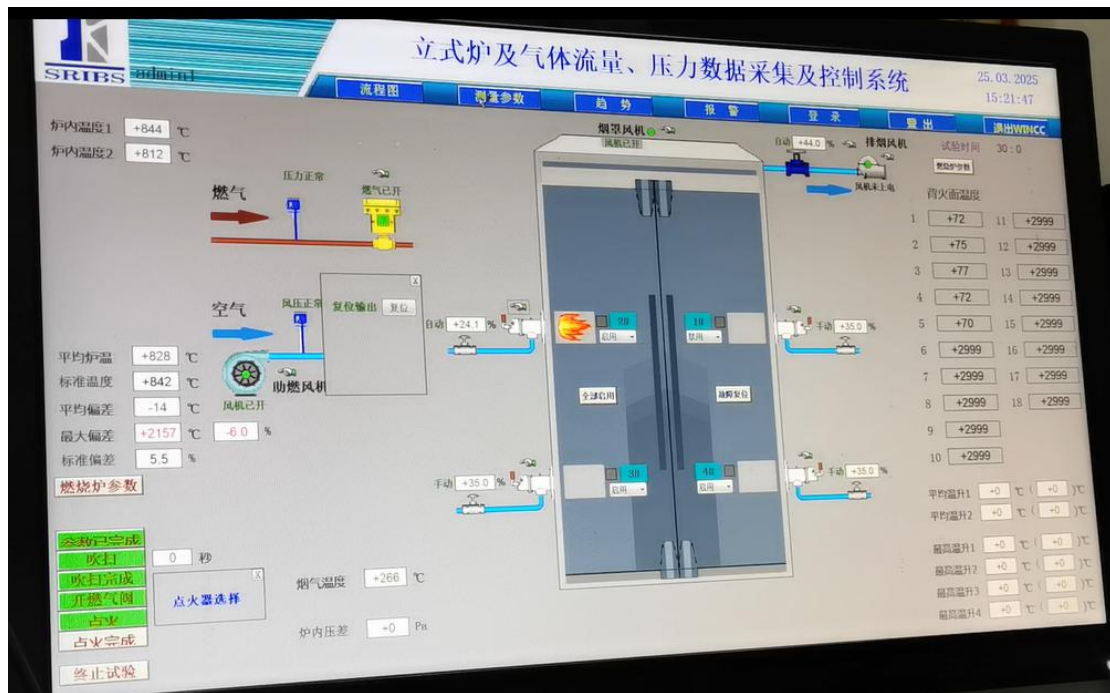


Figure 2: System Monitoring Data at 30min of test

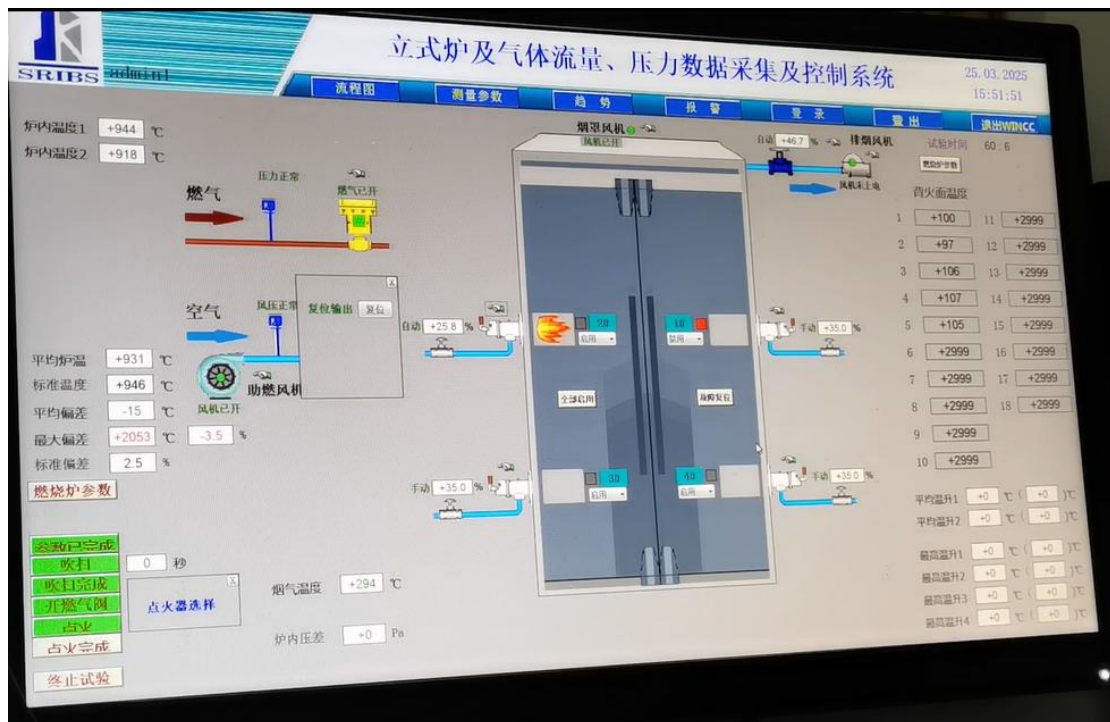


Figure 2: System Monitoring Data at 60min of test

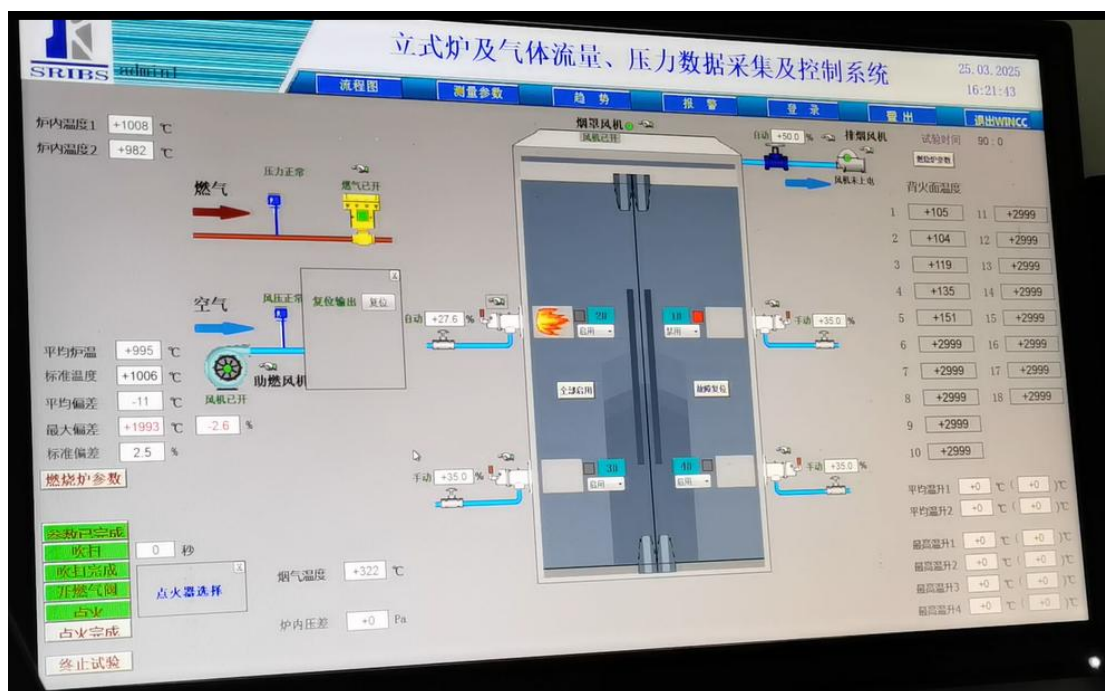


Figure 4: System Monitoring Data at 90min of test

Samples Outer Status During Test



Figure 5: Samples Outer Status During Test



Figure 6: Samples Outer Status at 30min of the test



Figure 7: Samples Outer Status at 60min of the test



Figure 8: Samples Outer Status at 90min of the test