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检测
TESTING
CNAS L0846

TEST REPORT

WSW No.25080078

Product Fiberglass Ceiling

Client Qingdao Boss Flame Retardant Textile Materials Co., Ltd.

Test Type Type Testing

CTC Nanjing Guocai Testing Limited Corporation

China National Fiberglass Product Quality Inspection And Testing Center



2025-09-03

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CTC Nanjing Guocai Testing Limited Corporation
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Test Report

WSW No.25080078

Page 1 of 8

Client	Qingdao Boss Flame Retardant Textile Materials Co., Ltd.	Address of client	No. 1 Boss Road, Jiaoxi Industry Park, Jiaoxi, Jiaozhou, Qingdao, China
Product	Fiberglass Ceiling	Specification	Dry-process RH99 600mm×1200mm×20mm
Trade mark	Qdboss	Sample sender	Wang Jiaocheng
Manufacturer	Qingdao Boss Flame Retardant Textile Materials Co., Ltd.	Production Date Original number	*****
Test item	Appearance, bulk density and etc., totally 12 items.		
Additional information	None.		
The above information is provided by the client, we are not responsible for its truthfulness.			
Test type	Type Testing	Date of sample received	2025-08-11
Sample state	White hard flat product		
Sample quantity	600mm×1200mm×20mm, 20 pieces	Testing period	2025-08-11 ~2025-09-02
Criteria	GB/T 25998-2020 Mineral wool decorating and acoustic ceilings GB 8624-2012 Classification for burning of building materials and products		
Testing result	The sample has been tested and the results conform to the stipulation of semi-concealed, dry-process mineral wool acoustic ceilings in GB/T 25998-2020 <i>Mineral wool decorating and acoustic ceilings</i>. Burning behavior conforms to the stipulation of Class A(A2-s1,d0,t0) defined in GB 8624-2012 <i>Classification for burning behavior of building materials and products</i>. Test results are detailed in page 2-8. The test results only represent the technical properties of the samples received.		
Declaration	This report is for use outside of China only and is a translation of WSW25080078.		

Approved by: 陈建明 /Technical Chief

Checked by: 陈建明

Compiled by: 孙雨嘉

CTC Nanjing Guocai Testing Limited Corporation
China National Fiberglass Product Quality Inspection And Testing Center

Test Report

WSW No.25080085

Page 2 of 8

No.	Test item		Test method	Requirement	Test result	Judgment
1	Appearance		GB/T 25998-2020 Annex B	The surface of the ceilings shall not have any defects which affect decoration effects such as stains, scratches, color difference, incomplete patterns and other defects. The product shall not be cracked, damaged, twisted, and shall not have corner breakage that affects the use and decoration effect.	The surface of the ceilings does not have any defects which affect decoration effects such as stains, scratches, color difference, incomplete patterns and other defects. The product does not be cracked, damaged, twisted, and does not have corner breakage that affects the use and decoration effect.	Pass
2	Bulk density kg/m ³			≤380	155	Pass
3	Dimension	Length mm		1200±2.0	1200.9	Pass
		Width mm		600±2.0	600.9	Pass
		Thickness mm		20±1.0	20.2	Pass
		Squareness mm/m	GB/T 5480-2017 6.2.1.2	≤3	0.3	Pass
4	Moisture content by mass %		GB/T 20313-2006	≤1.0	1.0	Pass
5	Thermal resistance (m ² ·K)/W (Average temperature 25℃, thickness 20.43 mm)		GB/T 10295-2008	≥0.40	0.59	Pass
6	Flexural failure load N		GB/T 25998-2020 Annex C	≥40	180	Pass
7	Radionuclide limits	Internal exposure index I _{Ra}	GB 6566-2010	≤1.0	0.0	Pass
		External exposure index I _r		≤1.3	0.1	

CTC Nanjing Guocai Testing Limited Corporation
China National Fiberglass Product Quality Inspection And Testing Center

Test Report

WSW No.25080085

Page 3 of 8

No.	Test item	Test method	Requirement	Test result	Judgment
8	Deflection in damp environment mm (RH99)	GB/T 25998-2020 Annex D	≤ 1.0	0.3	Pass
9	Asbestos phase	HJ/T 206-2005 Annex A	No asbestos fiber permitted	No asbestos fiber was found	Pass
10	Burning behavior Class A(A2)	GB 8624-2012	Conform to Class A(A2)	A(A2-s1, d0,t0)	Pass
11	Noise reduction coefficient (NRC) (Type E-400mm mounting)	GB/T 20247-2006	≥ 0.75	0.85	Pass
12	Formaldehyde emission mg/m ³	GB/T 17657-2013 (1m ³ climate box)	E ₁ : ≤ 0.124	0.079(52h)	Pass
Note	(1) The test site of No.1-11 is laboratory in No. 30 Andeli, the test site of No.12 is laboratory in Huizhi Science and Technology Park. (2) Details of burning behavior Class A(A2) test are in page 4-6; details of sound absorption coefficient / noise reduction coefficient test in a reverberation room are in page 7-8.				

Test Report

WSW No.25080078

Page 4 of 8

Test item			Test method	Requirement		Test result	Judgment
PCS	Substructure MJ/kg (Substantial component)		GB/T 14402-2007	A2	≤3.0	3.0	Pass
	Upper facing MJ/m ² (External non-substantial component)				≤4.0	1.5	Pass
	Lower facing MJ/m ² (External non-substantial component)				≤4.0	1.8	Pass
	Whole product MJ/kg				≤3.0	2.9	Pass
Single burning item test	FIGRA _{0.2MJ} W/s		GB/T 20284-2006		≤120	88.2	Pass
	THR _{600s} MJ				≤7.5	1.27	Pass
	LFS m				<the edge of the specimen	No lateral flame spread to the edge of the specimen	Pass
	Smoke production	SMOGRAM ² /s ²		s1	≤30	0.0	Class s1
				s2	≤180		
				s3	Not complying with s2		
		TSP _{600s} m ²		s1	≤50	23.3	
				s2	≤200		
				s3	Not complying with s2		
	Flaming droplets/particles			d0	No flaming droplets/particles occur within 600s	No flaming droplets/particles	Class d0
				d1	No flaming droplets/particles, persisting longer than 10s, occur within 600s		
				d2	No complying with d1		

Test Report

WSW No.25080078

Page 5 of 8

Test item	Test method	Requirement		Test result	Judgment
Toxic classification of fire effluents hazard for material	GB/T 20285-2006	t0	When the concentration of the specimen for smoke $\geq$ 25.0mg/L, narcotic and irritation comply with the requirement	The concentration of the specimen mass for smoke is 25.00 mg/L, narcotic and irritation comply with the requirement.	Class t0
		t1	When the concentration of the specimen mass for smoke $\geq$ 6.15mg/L, narcotic and irritation comply with the requirement		
		t2	No complying with t1		

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CTC Nanjing Guocai Testing Limited Corporation
China National Fiberglass Product Quality Inspection And Testing Center

Test Report

WSW No.25080078

Page 6 of 8

Sample description	White hard flat product.
Test descriptions	The PCS is tested in accordance with GB/T 14402-2007. The single burning item test is done in accordance with GB/T 20284-2006. The smoke toxicity is tested in accordance with GB/T 20285-2006. Test descriptions of single burning item test: 1. Specimen is mounted according to 5.2.2b) of GB/T 20284-2006. 2. The substrate is the calcium silicate board, thickness 10mm, density 900kg/m³. 3. The backing board is the calcium silicate board, thickness 10mm, density 900kg/m³.
Declaration	In specific test conditions, the test results related to the performance of the sample. The test results cannot be used as the only basis to evaluate the potential fire hazard of the products under actual conditions.

Test Report

WSW No.25080078

Page 7 of 8

Details of sound absorption coefficient / noise reduction coefficient test in a reverberation room

1. Photos of the specimens:



Front



Back

Photos of the specimen



Photo of the specimens after mounting

Test Report

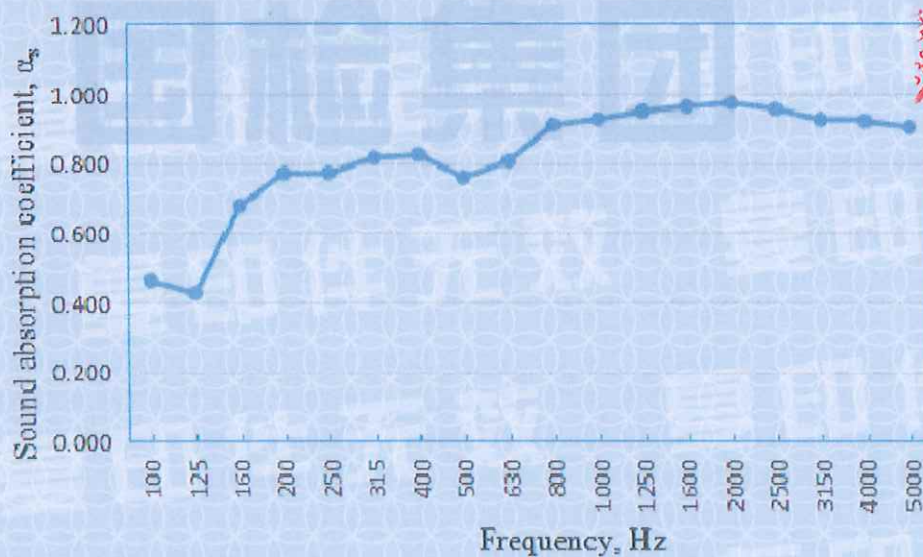
WSW No.25080078

Page 8 of 8

2. Test results of sound absorption coefficient, α_s .

Frequency (Hz)	100	125	160	200	250	315	400	500	630
Sound absorption coefficient α_s	0.463	0.427	0.678	0.771	0.772	0.816	0.825	0.759	0.806
Frequency (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
Sound absorption coefficient α_s	0.911	0.927	0.950	0.964	0.974	0.956	0.926	0.921	0.904
Noise reduction coefficient (NRC)	0.85								

3. Sound absorption coefficient - Frequency curve



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