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国际互认
检测
TESTING
CNAS L0690

TEST REPORT

Report No.: WT2022B03D00151E

Entrusted by:

Sample Name: Metal Embossed thermal insulation composite board

Test Type: Entrustment test

China Testing & Certification International Group Co.,Ltd.

National Research Center of Testing Techniques for Building Materials

WT2022B03D00151

ctc 国检集团

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Test Report

Report No.: WT2022B03D00151E

Sample(s) Name	Metal Embossed thermal insulation composite board	**Test Type**	Entrustment test
Client		**Brand**	
Manufacture		**Sample State**	Meet the requirements of testing
Receiving Date	March 21, 2022	**Quantity of sample(s)**	17m²
Production Date	——	**Model/Size**	4000mm×383mm ×16mm
Test Method(s)	The method for the test items are detailed in the data page(s).	**Test Date**	March 23-May 16, 2022
Judgment Standard(s)	GB 8624-2012 "Classification for burning behavior of building materials and products"		
Test Item(s)	Combustion performance B_1 (C-s3, d0)and impact resistance are 5 items in total. See page 2 ~ 4 for details.		
Test Result(s)	*According to GB 8624-2012 , the test result of combustion performance (composite board) complys with the requirement of flat-panel building materials and products level B_1 (C-s3, d0) flame retardant materials (products);Test results of other items are listed in page 3~4.* **Date of issued:** 2022-05-30 **(Seal)**		
Remarks: The structure of metal insulation decorative board is 0.30mm galvanized steel plate (surface coated) + 16mm polyurethane board + aluminum foil protective layer, and the fire receiving surface of the sample is the decorative surface,provided by client.			

Approved by **Verified by** **Compiled by**

Address: No.1 Guanzhuang Dongli ,Chaoyang District, Beijing, China P.C.: 100024
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No.	Test Item(s) (Composite board)		Requirements of Standard	Test Result(s)	Individual Conclusion	Test method(s)
1	Combus-tion perfor m-ance B_1 (C-s3,d0)	Flame height in 60s	Fs≤150mm	Fs < 150mm	Pass	GB/T 8626-2007
		Flaming droplets in 60s	No ignition phenomenon of filter paper	No ignition phenomenon of filter paper	Pass	
		Fire growth rate index ($FIGRA_{0.4MJ}$)	≤250W/s	185W/s	Pass	GB/T 20284-2006
		Total flue gas generation in 600s (THR_{600s})	≤15MJ	7MJ	Pass	
		Horizontal flame spread	Not reach the edge of long limb	Not reach the edge of long limb	Pass	
		Total flue gas generation in 600s (TSP_{600s})	s2 not reached	s2 not reached	Pass	
		Smoke growth rate index (SMOGRA)			Pass	
		Burning dripping/particles	No burning dripping/particl-es in 600s	No burning dripping/parti-cles in 600s	Pass	

Sample installation instructions :

1.The sample is installed in accordance with GB/T 20284-2006 5.2.2b) .

2. The back plates of the sample are two calcium silicate boards of thickness 12mm, density800kg/m^3, size 1000mm×1500mm and 570mm×1500mm.

3. The fire receiving surface of the sample is the decorative surface.

Remarks: 1. Testing location: Guanzhuang.

2.Fire classification test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

No.	Test Item(s) (Composite board)		Requirements of Standard	Test Result(s)	Individual Conclusion	Test method(s)
2	Impact resistance	Used for the first floor of buildings	/	10J impact qualified	/	JG/T 287-2013 6.4.4
		Other floors	/	3J impact qualified	/	
3	Tensile bonding strength	Original strength	/	0.24MPa, Thermal insulation material damage	/	JG/T 287-2013 6.5.1
4	Wind pressure resistance value		/	9.9kPa, The sample is not damaged	/	GB/T 36585-2018
(Blank below)						

Remarks: (provided by the client) preparation of wind pressure resistant sample: 4000mm × 383mm × 16mm sample cut into 3000mm × 383mm × 16mm and arranged horizontally on the base wall; The upper edge of each plate is fixed with nylon expansion bolts, and the number of nylon expansion bolts is 4/piece; The connection between the plates is in the form of joint lapping, and the outer edge around the sample and the wall are sealed with silicone sealant.

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No.	Test Item (Polyurethane board)	Requirements of Standard	Test Result(s)	Individual Conclusion	Test method(s)
5	Oxygen index	/	30.1%	/	GB/T 2406.2-2009

(Blank below)

Remarks : Fire classification test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

End of the Report

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