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TEST REPORT

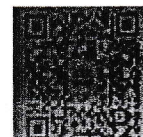
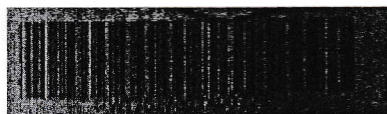
Center No.: WT2017B03A00323

Entrusted by: Jiangsu Spanl Building Materials Technology Co., Ltd

Sample Name: Decorative Thermal insulation Metal board

Test Type: Entrusted Test

National Research Center of Testing Techniques for Building Materials (Seal)



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Center No.: W1201100810002

Sample Name	Decorative thermal insulation metal board	Test Type	Entrusted test
Entrusted by	Jiangsu Spanl Building Materials Technology Co., Ltd.	Trademark	——
Produced by	Jiangsu East Steel Co., Ltd.	Conditions of Samples	In good condition
Date of Receiving	March 20, 2017	Quantity of Samples	21m ²
Date of Production/Batch No.	March 15, 2017	Model & Specifications	16*410*3,000mm ³
References	14 standards including GB 8624-2012, GB/T 6343-2009; see Pages 2 & 3 for details.		
Test Items	14 items including apparent density and compressive strength; see Pages 2&3 for details.		
Conclusions	<p>* Through our test, the combustion performance test result of the delivered products conforms to the technical requirements for B1 (B-s2, d0) nonflammable materials in flat building materials specified in GB 8624-2012. See Page 2 for test result of Items 1 to 13.*</p> <p style="text-align: right;">Date of Issue: August 16, 2017 National Research Center of Testing Techniques for Building Materials (Seal for Test)</p>		
Note: (lank below)			

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No.	Test items		Test result	References
1	Transparent density (core material)		65kg/m ³	GB/T 6343-2009
2	Comprehensive strength (core material)		320.4kpa	GB/T 8813-2008
3	Thermal transmission coefficient (core material)	Average temperature: 10℃	0.022 W/(m*K)	GB/T 10295-2008
		Average temperature: 25℃	0.024 W/(m*K)	
4	Water absorption		0.8%	GB/T 8810-2005
5	Tensile strength vertical to board surface (composite board)		1.6kpa	JG/T 149-2003
6	Bending bearing capacity	Vertical	5.44MPa	GB/T 9341-2008
		Lateral	3.88MPa	
7	Salt-spray resistance (steel sheet)		Free of damage in 500h (neutral salt spraying)	GB/T 1771-2007
8	Acid resistance (steel sheet)		Free of abnormality in 24h (5% sulphuric acid)	GB/T 9274-1988
9	Alkali resistance (steel sheet)		Free of abnormality in 24h (5% caustic soda)	GB/T 9265-2009
10	Wind pressure resistance (composite board)		Samples are not damaged under 10kPa	JG149-2003
11	Horizontal combustion (core material)		HF-1	GB/T 8332-2008
12	Formaldehyde release		Not detected	GB 18580-2001
13	UV aging (steel sheet)		Free of abnormality in visual appearance	GB/T 16422.3-2004
Remarks: Instructions for “not detected”: formaldehyde release: <0.1mg/L.				

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China Building Material Test & Certification Group Co., Ltd. (CTC)

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No.	Test items				Requirements specified in standards	Test result	Single-item conclusion		
14	Combustion performance Class B1 (composite board)		Oxygen index, % (core material)		≥30	34	Satisfactory		
			Class B	Fire growth rate index (FIGRA _{0.2MJ}), W/s		≤120	14	Satisfactory	
				Total heat release within 600s (THR _{600s}), MJ		≤7.5	0.6	Satisfactory	
				Lateral spreading of fire		<sample edge	<sample edge	Satisfactory	
				Flame tip height within 60s		≤150	<150	Satisfactory	
				Density flaming droplet within 60s		No filter paper ignition	No filter paper ignition	Satisfactory	
	Additional grades		s2	Smoke growth rate index (SMOGR), m ² /s ²	≤180	26	Satisfactory		
				Total smoke production within 600s (TSP _{600s}), m ²	≤200	107	Satisfactory		
			d0	Flaming droplet/particle	Free of flaming droplet/particle within 600s	Free of flaming droplet/particle within 600s	Satisfactory		
Instructions for sample installation				1. Samples are installed in accordance with the provisions of Article 5.2.2 b) of GB/T 20284-2006. 2. The back boards of samples are 12mm thick calcium silicate boards with density of 1,200kg/m ³ , with dimensions of 1,000*1,500mm and 570*1,500mm. 3. The heating surface of the sample is a decorative surface.					
Remarks: The result of combustion performance test only relates to the performance of product samples under specific test conditions and may not be deemed as sole basis for potential fire hazard of the products in their actual operation.									

End of Report

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