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China Recognition  
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Testing  
**TESTING**  
**CNAS L11237**

# Test report

Commission Number: XJ2024B03H000092

Units Inspected:

Guangzhou Fuzhen Environmental Protection Technology Co., Ltd.

Sample Name:

MCM Modified Inorganic Powder Composite Building Facing Sheet

Detection category:

Type inspection

China Testing Group Beijing Co., Ltd.



National Centre for Safety and Quality Inspection of Building Materials and Construction



China Testing Group Beijing Co., Ltd.  
National Centre for Quality Control and Inspection of  
Construction Materials and Construction Safety

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Sample Name	MCM Modified Inorganic Powder Composite Building Facing Sheet	Detection category	Type inspection
Inspected unit	Guangzhou Fushen Environmental Protection Technology Co., Ltd.	Application No.	FJ-XJ-03H2024007
production unit	Guangdong Shifeng New Materials Technology Co., Ltd.	trademark	
Sampling unit	National Centre for Safety and Quality Inspection of Building Materials and Construction	Sample State	Meet testing requirements
Date of production	18 January 2024	Specifications / Models	800mm×400mm
Sampling date	23 January 2024	Sampling base	5000m <sup>2</sup>
Sample date	29 January 2024	Number of samples	10m <sup>2</sup>
Sampling mode	Random sampling National Prosecuting Authority	Sampling person	Wang Zhen
Sampling locations	Workshop 房屋中心	Seal sample	Yang Yu
Date of detection	30 January - 13 May 2024	Seal sample state	intact
Decision basis	JC / T 2219-2014 "Modified Inorganic Powder Composite Building Facing Sheet" Outdoor wall; Grade A (A2) in GB 8624-2012 < Flammability grading of construction materials and products >.		
Detection basis	See the data page for each test item.		
Detection project	1☑ Appearance Quality 2☑ Size Tolerance 3☑ Water Absorption 4☑ Frost Resistance 5☑ Heat Resistance 6☑ Artificial Ageing Resistance 7☑ Flexibility 8☑ Stain Resistance 9☑ Chemical Corrosion-resistance 10☑ Limit of Harmful Substance 11☑ Limit of Radionuclide 12☑ Burning Property A (A2)		
Detection conclusion	* After testing, items 1-9 of sampling samples meet the technical requirements of outdoor wall in JC / T 2219-2014 "Modified Inorganic Powder Composite Building Facing Sheet"; Item 12 complies with the specification of A (A2) in Table 2 of GB8624-2012 for materials of construction; See the data page for test results. * Fr1.0 is the value.		
		Date of Issue: 13 May 2024	
		Inspection and Inspection Special Seal) 	
Note: : (Blank here)			

Approval: He Xiaozhi

Review: No four Xue Yun

Prepared by: xu lifeng

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TC Housing Center



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Serial number	Detection project		Standard requirements (Outdoor wall)	Test results	Individual conclusions	Detection basis
1	Appearance quality		Do not allow penetrating cracks or holes, delamination; there should be no obvious lack of edge, corner, holes, blistering, color difference	No penetrating cracks or holes, delamination; No obvious missing edges, missing corners, holes, bubbles, color difference	accord with	JC/T 2219-2014
2	Allow deviation / mm	Length (Cutting Class)	±1	-1	accord with	
		Width (Cutting Class)	±1	+1	accord with	
3	Water absorption /%		≤ 15, the test piece has no drum, Cracking, delamination, powdering phenomenon	5.8, There is no bulging, cracking, delamination and powdering phenomenon in the specimen	accord with	GB/T 9966.3-2020
4	Frost resistance		No surface crack, powder, delamination and other damage phenomenon	No surface crack, powder, delamination and other damage phenomenon	accord with	JG/T 25-2017
5	Heat resistance to heating	Size Change Rate 1%	≤0.5	0.0 <sup>+</sup>	accord with	GB/T 4085-2015
		surface	No sticky, foaming phenomenon	No sticky, foaming phenomenon		
6	Artificial aging resistance		2000h No blistering, cracking or delamination	2500h No blistering, cracking or delamination	accord with	GB/T 16259-2008
	Pulverization / grade		≤1	0	accord with	
	Discoloration / Grade		≤2	1	accord with	
7	Flexibility		No cracks or breaks	No crack, no fracture	accord with	JC/T 2219-2014
8	Stain resistance (concave-convex type) / grade		≤2	1	accord with	GB/T 9780-2013
9	Chemical resistance	Acid resistance	No cracking, delamination, obvious discoloration on the surface	No cracking, delamination, obvious discoloration on the surface	accord with	JC/T 2219-2014
		Alkaline resistance	No cracking, delamination, obvious discoloration on the surface	No cracking, delamination, obvious discoloration on the surface	accord with	
Remark: The bending diameter of compliance test is 300mm, and the artificial aging resistance test is 2500h, provided by the client.						

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Serial number	Detection project		Standard Requirements (Outdoor Wall)	Test results	Individual conclusion	Test basis
10	Hazardous material limit	TVOC/ (g/m <sup>2</sup> )	-----	6.5	-----	GB 18586-2001
		Soluble Lead /(mg / m <sup>2</sup> )	-----	18	-----	
		Soluble Cadmium /( mg / m <sup>2</sup> )	-----	0.50	-----	
11	Radionuclide limit	$I_{Ra}$	-----	0.1	-----	GB 6566-2010
		$I_r$	-----	0.1	-----	
(continued)						
Housing construction centre						
Note: (blank)						

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Serial number	Inspection items		Standard requirements	Individual conclusions of test results		Inspection basis
12	Combustion performance A (A2)	Calorific value of combustion	Total calorific value PCS $\leq 3.0$ MJ / kg	0.5MJ/kg	accord with	GB/T 14402-2007
		Monomer combustion	Combustion growth rate index ( $FIGRA_{0.2MJ}$ ) $\leq 120$ W/s	0W/s	accord with	GB/T 20284-2006
			Total heat release of 600 s ( $THR_{600s}$ ) $\leq 7.5$ MJ	0.3MJ	accord with	
			Flame Transverse Spread Length LFS: Does not reach the edge of the specimen long wing	Not reaching the edge of the specimen wing	accord with	

Single Combustion Test Sample Installation Instructions:

1, the sample is installed in accordance with the provisions of GB / T 20284-2006;

2, installation sample size for the long wing: 1000mmx1500mm, short wing: 500mmx1500mm.

Note: 1. Item 12 Testing location: Yutai Industrial Park, Yutian County, Tangshan City, Hebei Province;

2, the combustion performance test results are related to the performance of the sample under specific conditions; The test results can not be used as the only basis to evaluate the potential fire hazard of the product under actual use conditions.

### Conclusion of this report

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