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中国认可  
国际互认  
检测  
TESTING  
CNAS L0690

# TEST REPORT

No: WT2017B01B01314



**Entrusted by**

Guangzhou Willstrong New Material  
Holding Co.,ltd.

**Sample Name**

Plastic-Aluminum veneer

**Test Type**

Entrustment test

**National Research Center of Testing Techniques  
for Building Materials**



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<b>Sample Name</b>	Plastic-Aluminum veneer	<b>Test Type</b>	Entrustment test
<b>Applicant</b>	Guangzhou Willstrong New Material Holding Co.,ltd.	<b>Brand</b>	WILLSTRONG
<b>Manufacturer</b>	Guangzhou Willstrong New Material Holding Co.,ltd.	<b>Sample Description</b>	Good condition
<b>Receiving Date</b>	August 4, 2017	<b>Quantity</b>	16 PCS
<b>Production Date/ Batch No.</b>	July11, 2017 17071101626205	<b>Model/Size</b>	Thickness: 3mm 0.18mm/0.18mm 3mm/alu. 0.18mm
<b>Test Standard</b>	JG/T 373-2012 Plastic-aluminium veneer GB/T 8624-2012 Classification for burning behavior of building materials and products		
<b>Test Items</b>	Detailed conclusions are listed in page 2~5.		
<b>Conclusion</b>	<p>Upon testing , Burning behavior accord with the requirements of GB 8624-2012 A( A2-s1,d0, t0 ), other tested items accord with the requirements of JG/T 373-2012. Detailed conclusions are listed in page 2~5.</p> <p style="text-align: right;"><b>Date of issued:</b> September 12, 2017 (Seal)</p>		
<b>(Remarks):</b> ( Provided by entrusted unit )			
1、 Sample grade: A2.			



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

检验单位地址: 北京市朝阳区管庄中国建材院南楼    电话: 65728538    邮编: 100024

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No.	Test Item		Requirements of Standard		Test Results	Individual Conclusion	
			High-class product	Qualified product			
1	Appearance quality	Appearance		Clean and tidy		Clean and tidy	Pass
		Non exposed surface		No damages affecting the product use		No damages	Pass
		Exposed surface	Impress	Not allowed	Indistinct	No	High-class product
			Imprint	Not allowed	Indistinct	No	High-class product
			Unevenness	Not allowed	Indistinct	No	High-class product
			Wave	Not allowed	Indistinct	No	High-class product
			Bubble	Not allowed	Indistinct	No	High-class product
			Spot	Max size $\leq$ 3mm, quantity $\leq$ 3/m <sup>2</sup>	Max size $\leq$ 3mm, quantity $\leq$ 10/m <sup>2</sup>	No	High-class product
			Abrasion	Not allowed	length $\leq$ 100mm/m <sup>2</sup>	No	High-class product
			Scratch	Not allowed	area $\leq$ 300mm <sup>2</sup> /m <sup>2</sup>	No	High-class product
			The number of abrasion	Not allowed	$\leq$ 3 /m <sup>2</sup>	No	High-class product
			Damage	Not allowed		No	Pass
		Holiday	Not allowed		No	Pass	
Colour uniformity	Indistinct		Indistinct	Pass			

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No	Test Item	Requirements of Standard	Test Results		Individual Conclusion
2	Aluminium foil thickness	average $\geq 0.18$ mm	Front	average 0.18mm	Pass
			Back	average 0.18mm	Pass
3	Film thickness	average $\geq 16\mu\text{m}$ min. $\geq 14\mu\text{m}$	average $16\mu\text{m}$ min. $15\mu\text{m}$		Pass
4	Film hardness	$\geq \text{HB}$	2H		Pass
5	Gloss tolerance	$\leq 10$	1.5		Pass
6	Coating adhesion	Grade 0	Grade 0		Pass
7	Acid resistance	No change	No change		Pass
8	Oil resistance	No change	No change		Pass
9	Alkali resistance	No change	No change		Pass

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No.	Test Item	Requirements of Standard	Test Results	Individual Conclusion	
10	Solvent resistance	No base exposed	No base exposed	Pass	
11	Pollute resistance	≤ 5%	2.2%	Pass	
12	Temperature cycle resistance	No delamination, no bubbling, no peeling, no cracking, no discoloration with the coating	No delamination, no bubbling, no peeling, no cracking, no discoloration with the coating	Pass	
13	Boiling water resistance	No delamination, no bubbling, no peeling, no cracking, no discoloration with the coating	No delamination, no bubbling, no peeling, no cracking, no discoloration with the coating	Pass	
14	Peel strength	average ≥ 3.5N/mm min. ≥ 3.0N/mm	Front longitudinal	Avg.5.4N/m m Min.5.3N/m m	Pass
			Front lateral	Avg.5.7N/m m Min.5.6N/m m	Pass
			Back longitudinal	Avg.5.2N/m m Min.5.1N/m m	Pass
			Back lateral	Avg.5.4N/m m Min.5.3N/m m	Pass
15	Tensile strength	≥ 13MPa	25MPa	Pass	
16	Bending test	250mm of bending radius, no cracking of the specimen.	250mm of bending radius, no cracking of the specimen.	Pass	

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No.	Test Item				Requirements of Standard	Test Results	Individual Conclusion		
17	Burni- ng behav- -ior	A	A2	Overall product MJ/kg		≤ 3.0	2.1	Pass	
				Major component MJ/kg	Alumini- um panel	≤ 3.0	0	Pass	
				Major Component MJ/kg	Core material	≤ 3.0	2.67	Pass	
				Interior secondary component MJ/m <sup>2</sup>	Polymeric membrane	≤ 4.0	2.2	Pass	
				Exterior secondary component MJ/m <sup>2</sup>	Film	≤ 4.0	1.7	Pass	
				FIGRA <sub>0.2MJ</sub> , W/s		≤ 120	6	Pass	
				THR <sub>600s</sub> , MJ		≤ 7.5	1.0	Pass	
				Lateral spread of flame (LFS), m		Do not reach the sample edge	Do not reach the sample edge	Pass	
			Ad- -iti- -on- -al -inf- -or -ma- -tio- -n	s1	TSP <sub>600s</sub> , m <sup>2</sup>		≤ 50	22	Pass
					SMOGR <sub>A</sub> , m <sup>2</sup> /s <sup>2</sup>		≤ 30	0	Pass
				d0	flaming droplets/particles		no flaming droplets/particle s in 600 seconds	no flaming droplets/parti- cles in 600 seconds	Pass
				t0	toxicity, grade		ZA <sub>1</sub>	ZA <sub>1</sub>	Pass
			Remarks: ( Blank )						

本报告结束

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