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CNAS L4743

**Test Report**

No. AJFS2004002677FF

Date: APR.29, 2020

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**JIANGSU VICOBOND DECORATION MATERIAL CO., LTD**

NO.8 SHOUFENGWAN ROAD, ZHIQIAN TOWN, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU, CHINA

The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

**Sample Name:** ALUMINIUM COMPOSITE PANEL

**SGS Ref No.:** SHIN2004016645CM

**Style/Item No.:** /

**Product Specification:** 4MM THICKNESS

**Test Requested:**

EN 13501-1:2018 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests

**Test Results:** -- See attached sheet --

**Test Period:**

Sample Receiving Date : APR.17, 2020

Test Performing Date : APR.17, 2020 TO APR.26, 2020

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji Branch

Allen Zou  
Lab Manager

scan to see the report



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**I. Test conducted**

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2010+A1:2014 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2: 2010+Cor1:2011 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

**II. Details of classified product**
**a) Nature and end use application**

The product “Aluminium Composite Panel” is defined as a decorative sheet. Its classification is valid for the following end use application: Indoor wall for thermal insulation and decoration.

**b) Description**

Description	Aluminium Composite Panel
Color	White and Grey
Sample size	EN 13823:1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Thickness	4.0mm
Bulk Density	1805.6 kg/m <sup>3</sup>
Exposed surface	White surface

**Mounting and fixing:**

Fibre cement board, with its density approximate 1800kg/m<sup>3</sup>, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate with a cavity behind it. The distance between the substrate and the backing board shall be at least 40 mm. No joint in the specimens.

**III. Test results**

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA <sub>0.2MJ</sub> (W/s)	3	20.2
	FIGRA <sub>0.4MJ</sub> (W/s)		20.2
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR <sub>600s</sub> (MJ)		2.2
	SMOGR <sub>A</sub> (m <sup>2</sup> /s <sup>2</sup> )		0.8
	TSP <sub>600s</sub> (m <sup>2</sup> )		8.6
	Flaming particles or droplets (Yes/No)		No

To be continued...



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Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	6	No
	Ignition of the filter paper (Yes/No)		No

**IV. Classification and field of application**

**a) Reference of classification**

This classification has been carried out in accordance with **EN 13501-1:2018**.

**b) Classification**

The product, Aluminium Composite Panel, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production				Flaming droplets	
<b>B</b>	—	s	1	,	d	0	

**Reaction to fire classification: B—s1, d0**

**Remark:** The classes with their corresponding fire performance are given in annex A.

**c) Field of application**

This classification is valid for the following end use applications:

- With all substrates classified A1 and A2
- With mechanically fixing
- No joint
- with a cavity

This classification is valid for section II b) of this test reports.

**Statement:**

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

The 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.

To be continued...



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**Warning:**

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

**Annex A**

**Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products**

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^{\circ}\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ <sup>a</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>b c</sup> and $PCS \leq 1.4\text{MJ/m}^2$ <sup>d</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>e</sup>	-
A2	EN ISO 1182 <sup>a</sup> or	and $\Delta T \leq 50^{\circ}\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		-
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
B	EN 13823 and	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	within 60s $F_s \leq 150\text{mm}$	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750\text{W/s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 <sup>i</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles <sup>h</sup>

To be continued...



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F	EN ISO 11925-2 <sup>i</sup> Exposure = 15 s	Fs > 150mm within 20 s
<p><sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.</p> <p><sup>b</sup> For any external non-substantial component of non-homogeneous products.</p> <p><sup>c</sup> Alternatively, any external non-substantial component having a PCS <math>\leq 2,0 \text{ MJ/m}^2</math>, provided that the product satisfies the following criteria of EN 13823: FIGRA <math>\leq 20 \text{ W/s}</math>, and LFS &lt; edge of specimen, and THR<sub>600s</sub> <math>\leq 4,0 \text{ MJ}</math>, and s1, and d0.</p> <p><sup>d</sup> For any internal non-substantial component of non-homogeneous products.</p> <p><sup>e</sup> For the product as a whole.</p> <p><sup>f</sup> s1 = SMOGRA <math>\leq 30\text{m}^2/\text{s}^2</math> and TSP<sub>600s</sub> <math>\leq 50\text{m}^2</math>; s2 = SMOGRA <math>\leq 180\text{m}^2/\text{s}^2</math> and TSP<sub>600s</sub> <math>\leq 200\text{m}^2</math>; s3 = not s1 or s2</p> <p><sup>g</sup> d0 = No flaming droplets/ particles in EN 13823 within 600 s; d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s; d2 = not d0 or d1.</p> <p>Ignition of the paper in EN ISO 11925-2 results in a d2 classification.</p> <p><sup>h</sup> Pass = no ignition of the paper (no classification); Fail = ignition of the paper (d2 classification).</p> <p><sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.</p>		

To be continued...

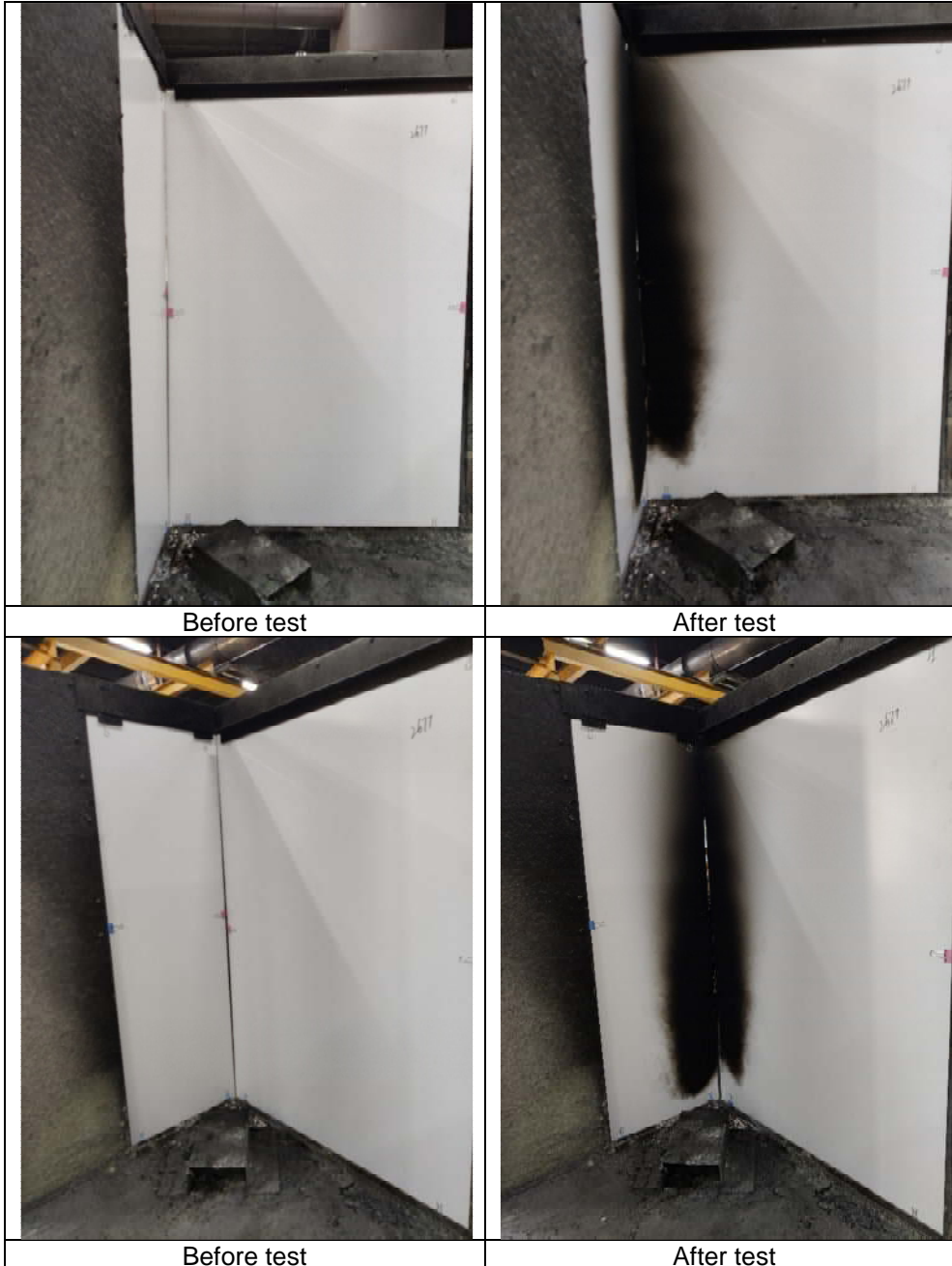


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Photo Appendix:



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\*\*\*End of Report\*\*\*



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