







中国认可 国际互认 检测 TESTING CNAS L4743

Test Report

No. AJFS2007005644FF

Date: JUL.31, 2020

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ZHANGJIAGANG FEITENG NEW COMPOSITE MATERIALS CO., LTD

77 HUADA RD, ENVIRONMENTAL & NEW MATERIAL INDUSTRY PARK, BONDED PORT ZONE, ZHANGJIAGANG 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: PAINTED ALUMINUM SHEET

SGS Ref No.: NJIN2007002638ML

Manufacturer: FEITENG

Style/Item No.: /

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 : JUL.10, 2020

Test Performing Date : JUL.10, 2020 TO JUL.23, 2020

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

Allen Zou Lab Manager





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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 1716:2010 Reaction to fire tests for building products -- Determination of the heat of combustion.

II. Details of classified product

a) Nature and end use application

The product "Painted Aluminum Sheet" is defined as a decorative sheet. Its classification is valid for the following end use application: Decorative curtain wall.

b) Description

Sample Description	Painted Aluminum Sheet	
Sample composition*	Coating (0.064kg/m²) + Aluminum plate (8.19kg/m²)	
Color	White	
Thickness	3.0mm	
Bulk Density	2660 kg/m ³	
Tested surface	Coating surface	

^{*} The details provided by client.

Mounting and fixing:

The test specimens are free standing at a distance of at least 80 mm from the backing board. No joint in the long wing of the specimen.

To be continued...



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III. Test results

Test method	Parameter	Number of tests	Results
	FIGRA _{0.2MJ} (W/s)		17.5
EN 13823	FIGRA _{0.4MJ} (W/s)		17.5
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)	3	1.4
	SMOGRA (m²/s²) TSP _{600s} (m²)		15.5
			25.1
	Flaming particles or droplets (Yes/No)		No
	PCS/ MJ/kg ^a		0
EN ISO 1716	PCS/ MJ/m ^{2 b}		0.92
	PCS/ MJ/kg ^b	3	14.39
	PCS/ MJ/m ^{2 d}		
	PCS/ MJ/kg ^e		0.11

Note: For the means of superscript a, b, d and e, please refer to the Annex A.

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, Solid Aluminum Sheet, in relation to its reaction to fire behaviour is classified:

Fire behaviour	Smoke production		Flaming	droplets
A1	-	-	-	-

Reaction to fire classification: A1

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

To be continued...



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c) Field of application

This classification for the submitted sample is valid for the following end use condition:

- --- With mechanical fixing
- --- No joint
- --- Free standing

This classification is valid for the following product parameters:

--- Characteristics of various layers identical to those as described in 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.

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.

To be continued...



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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	
	EN ISO 1182 a and		△T≤30°C, and △m≤50%, and t=0(i.e. no sustained flaming)	-	
A1	EN ISO 1716		PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ² ^d and PCS≤2.0MJ/kg ^e	-	
	EN ISO 1182 ^a or		<i>∆T</i> ≤50°C, and <i>∆m</i> ≤50%, and tr≤20 s	-	
A2	EN ISO 1716	and	PCS≤3.0MJ/kg a and PCS≤4.0MJ/m² b and PCS≤4.0MJ/m² d and PCS≤3.0MJ/kg e	-	
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823	and	FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure =30s		within 60s <i>F</i> s≤150mm	- Flaming droplets/particles	
С	EN 13823	and	FIGRA≤250W/s and LFS< edge of specimen and THR _{600s} ≤15MJ Smoke production		
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ^g	
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
Е	EN ISO 11925-2 i Exposure =15s		Fs≤150mm within 20 s	flaming droplets/particles h	

To be continued...



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_	EN ISO 11925-2 ⁱ
Г	Exposure = 15 s

Fs>150mm within 20 s

- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ° Alternatively, any external non-substantial component having a PCS \leq 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA \leq 20 W/s, and LFS < edge of specimen, and THR_{600s} \leq 4,0 MJ, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.
- e For the product as a whole.
- f s1 = SMOGRA \leq 30m²/s² and TSP $_{600s}$ \leq 50m² ; s2 = SMOGRA \leq 180m²/s² and TSP $_{600s}$ \leq 200m²; s3 = not s1 or s2
- g 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.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

- h Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).
- Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

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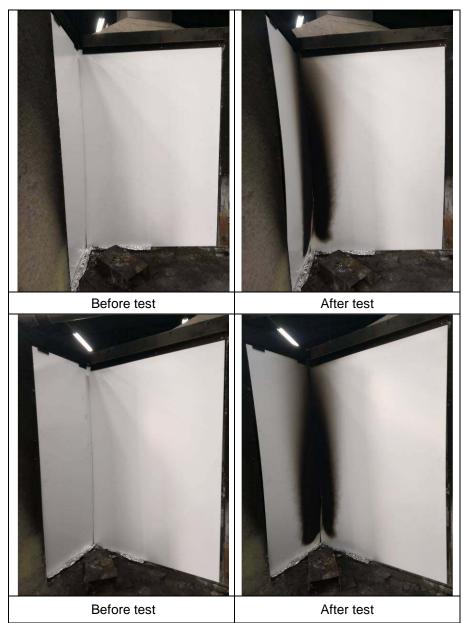


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Photo Appendix:



SGS authenticate the photo on original report only

End of Report



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