



检测报告

编号: AJFTS25002732R01_CN

日期: 2025-05-23

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江苏雅泰科技产业园有限公司

江苏省宿迁市经开区上海路 1555 号

此报告是报告号为 AJFTS25002732R01_EN 的中文译本, 如中英文有差异, 概以英文为准。

样品描述 : A2 铝复合板
产品规格 : 4MM
生产商 : 江苏雅泰科技产业园有限公司
型号/货号 : /
结构组成 : 油漆涂层 (0.0215kg/m²) + 铝箔 (1.22kg/m²) + 高分子胶膜 (0.067kg/m²) + 阻燃芯材 (0.588kg/m²) + 高分子胶膜 (0.067kg/m²) + 铝箔 (1.22kg/m²)

以上测试样品数据和信息为客户提供并确认, SGS 不对这些数据和信息的真实性、完整性以及由此引发的结果和/或结论的有效性负责。检测结果适用于收到的样品。

SGS 参考号 : SHIN2504003862PL01
试样收到日期 : 2025-05-07
测试执行时间 : 2025-05-07 至 2025-05-21
测试要求 : EN 13501-1:2018 建筑材料及制品燃烧性能分级 第 1 部分: 利用火反应数据分级。
测试结果 : --参见数据附表--

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I. 测试方法

试验根据EN 13501-1:2018 建筑材料及制品燃烧性能分级 第1部分：利用火反应数据分级进行，测试方法如下：

- 1. EN 13823:2020+A1:2022 建筑制品对火反应---不含铺地材料的建筑制品单项燃烧试验方法
- 2. EN ISO 1716:2010 建筑材料对火反应—燃烧热值的测定

II. 样品描述

a) 样品一般描述及最终应用

样品“A2铝复合板”被定义为装饰材料，其最终应用于幕墙装饰用。

b) 描述

样品描述	A2铝复合板
厚度	4.25mm
面密度	3.2 kg/m²
颜色	银色
暴露面	银灰色面

安装和固定:

采用密度约为1800kg/m³，厚度约为9mm的纤维水泥板作为基材。样品机械固定于基材上。样品长翼上无接缝。



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III. 测试结果

测试方法	参数	测试数量	结果
EN 13823	FIGRA _{0.2MJ} (W/s)	3	7.1
	FIGRA _{0.4MJ} (W/s)		7.1
	火焰横向蔓延是否到达长翼边缘 (是/否)		否
	THR _{600s} (MJ)		1.4
	SMOGRA (m ² /s ²)		0
	TSP _{600s} (m ²)		0
	是否有燃烧的滴落物 (是/否)		否
EN ISO 1716	PCS MJ/kg ^a	3	芯材: 1.97, 铝箔: 0
	PCS MJ/m ² ^b		面漆: 0.41, 底漆: 0.06
	PCS MJ/m ² ^d		胶膜: 3.00
	PCS MJ/kg ^e		2.39

注: 上标a, b, d, e的含义请参阅附录A部分。

IV. 分级和应用领域

a) 分级依据

依据 EN 13501-1:2018 进行分级。

a) 分级

所提供样品, A2铝复合板, 根据其燃烧性能分级如下:

防火等级		烟气等级		滴落等级
A2	—	s	1	, d 0

燃烧性能等级: A2—s1, d0

备注: 级别对应燃烧性能要求在附录A给出。



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c) 应用领域

本测试分级对于在下述最终应用条件下有效:

--- 基材防火等级达到A1或A2

--- 机械固定

--- 无接缝

本测试分级对于制品的下述参数有效

---样品材料特性符合报告中第II b)部分的描述。

陈述:

此符合性声明仅基于本次实验室活动的实际值, 未将本次实验室活动的结果不确定度影响计入。

在特定的试验条件下, 试验结果与试样的性能有关; 试验结果不能作为评估制品在实际使用条件下潜在火灾危险性的唯一依据。

声明:

此报告只对此次样品负责, 不能作为该类产品的分级证明。

实验室未曾参与产品的取样, 所测样品为厂家选送, 但是为了相关送测样品可以被追溯, 实验室对厂家制样提供了相关的指导。



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附录 A

建筑材料及制品（铺地材料和管状隔热材料除外）燃烧性能分级

等级	试验标准		分级判据	附加分级
A1	EN ISO 1182 ^a	且	$\Delta T \leq 30^{\circ}\text{C}$, 且 $\Delta m \leq 50\%$, 且 $t_f = 0$ (无持续燃烧)	-
	EN ISO 1716		$PCS \leq 2.0\text{MJ/kg}$ ^a 且 $PCS \leq 2.0\text{MJ/kg}$ ^{b c} 且 $PCS \leq 1.4\text{MJ/m}^2$ ^d 且 $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a 或	且	$\Delta T \leq 50^{\circ}\text{C}$, 且 $\Delta m \leq 50\%$, 且 $t_f \leq 20\text{ s}$	-
	EN ISO 1716		$PCS \leq 3.0\text{MJ/kg}$ ^a 且 $PCS \leq 4.0\text{MJ/m}^2$ ^b 且 $PCS \leq 4.0\text{MJ/m}^2$ ^d 且 $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823	且	$FIGRA \leq 120\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 7.5\text{MJ}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g
B	EN 13823	且	$FIGRA \leq 120\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 7.5\text{MJ}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g
	EN ISO 11925-2 ⁱ 点火时间=30s		60s 内 $F_s \leq 150\text{mm}$	
C	EN 13823	且	$FIGRA \leq 250\text{W/s}$ 且 $LFS < \text{试样边缘}$ 且 $THR_{600s} \leq 15\text{MJ}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g
	EN ISO 11925-2 ⁱ 点火时间=30s		60s 内 $F_s \leq 150\text{mm}$	
D	EN 13823	且	$FIGRA \leq 750\text{W/s}$	产烟量 ^f 且 燃烧滴落物/微粒 ^g
	EN ISO 11925-2 ⁱ 点火时间=30s		60s 内 $F_s \leq 150\text{mm}$	
E	EN ISO 11925-2 ⁱ 点火时间=15s		20s 内 $F_s \leq 150\text{mm}$	燃烧滴落物/微粒 ^h
F	EN ISO 11925-2 ⁱ 点火时间=15s		20 s 内 $F_s > 150\text{mm}$	



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- a: 匀质制品和非匀质制品的主要组份;
- b: 非匀质制品的外部次要组份;
- c: 另一个可选择的判据是: 对 $PCS \leq 2.0 \text{ MJ/m}^2$ 的外部次要组份, 则要求满足 $FIGRA \leq 20 \text{ W/s}$ 、 $LFS < \text{试样边缘}$ 、 $THR_{600s} \leq 4.0 \text{ MJ}$ 、 $s1$ 和 $d0$;
- d: 非匀质制品的任一内部次要组份;
- e: 整体制品;
- f: $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ 且 $TSP_{600s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ 且 $TSP_{600s} \leq 200 \text{ m}^2$; $s3 = \text{未达到 } s1 \text{ 或 } s2$;
- g: $d0 = \text{按 EN 13823 规定, 600s 内无燃烧滴落物/微粒}$;
 $d1 = \text{按 EN 13823 规定, 600s 内燃烧滴落物/微粒持续时间不超过 10s}$;
 $d2 = \text{未达到 } d0 \text{ 或 } d1$;
 按照 EN ISO 11925-2 规定, 过滤纸被引燃, 则该制品为 $d2$ 级;
- h: 通过=过滤纸未被引燃;
 未通过=过滤纸被引燃 ($d2$ 级);
- i: 火焰轰击制品的表面和 (如果适合该制品的最终应用) 边缘。



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TEST REPORT

No.: AJFTS25002732R01_EN

Date: May 23, 2025

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JIANGSU YARET TECHNOLOGY INDUSTRIAL PARK CO., LTD

1555 SHANGHAI ROAD, ECONOMIC DEVELOPMENT ZONE, SUQIAN, JIANGSU PROVINCE

Sample Description : A2 ALUMINUM COMPOSITE BOARD
Product Specification : 4MM
Manufacturer : JIANGSU YARET TECHNOLOGY INDUSTRIAL PARK CO., LTD
Style/Item No. : /
Composition : Paint coating (0.0215kg/m²) + Aluminium foil (1.22kg/m²) + Polymer film (0.067kg/m²) + Flame-retardant core material (0.588kg/m²) + Polymer film (0.067kg/m²) + Aluminium foil (1.22kg/m²)

The above sample(s) data and information 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 arising therefrom. Results apply to the sample as received.

SGS Ref. No. : SHIN2504003862PL01
Sample Receiving Date : May 07, 2025
Testing Period : May 07, 2025 to May 21, 2025
Test Required : EN 13501-1:2018 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests.
Test result(s) : See attached sheet

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

Echo Li

Echo Li
Approved signatory



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Member of the SGS Group (SGS SA)

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 13823:2020+A1-2022 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 "A2 aluminum composite board" is defined as a decorative sheet. Its classification is valid for the following end use application: Curtain wall decoration.

b) Description

Sample description	A2 aluminum composite board
Thickness	4.25mm
Mass per unit area	3.2 kg/m ²
Color	Silver
Exposed surface	Silver grey surface

Mounting and fixing:

Fibre cement board, with its density approximate 1800kg/m³, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. No joint in the long wing of the specimens.



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III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)	3	7.1
	FIGRA _{0.4MJ} (W/s)		7.1
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		1.4
	SMOGRA (m ² /s ²)		0
	TSP _{600s} (m ²)		0
	Flaming particles or droplets (Yes/No)		No
EN ISO 1716	PCS MJ/kg ^a	3	Core:1.97, aluminum foil: 0
	PCS MJ/m ² ^b		Finish coat: 0.41, Primer: 0.06
	PCS MJ/m ² ^d		Adhesive film:3.00
	PCS MJ/kg ^e		2.39

Note: For the means of superscript a, b, d, 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, A2 aluminum composite board, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production		Flaming droplets
A2	—	s	1	, d 0

Reaction to fire classification: A2—s1, d0

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



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c) Field of application

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

- With all substrates classified A1 or A2
- With mechanically
- No joint

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.

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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
A1	EN ISO 1182 ^a	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		$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	and	$\Delta T \leq 50^{\circ}\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		$PCS \leq 3.0\text{MJ/kg}$ ^a and $PCS \leq 4.0\text{MJ/m}^2$ ^b and $PCS \leq 4.0\text{MJ/m}^2$ ^d and $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823		$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
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 ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ 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 ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s		$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823	and	$FIGRA \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s		$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s		$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h



F	EN ISO 11925-2 ¹ Exposure = 15 s	$F_s > 150\text{mm}$ 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. ^c Alternatively, any external non-substantial component having a $\text{PCS} \leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $\text{FIGRA} \leq 20 \text{ W/s}$, and $\text{LFS} < \text{edge of specimen}$, and $\text{THR}_{600\text{s}} \leq 4,0 \text{ MJ}$, and s1, and d0. ^d For any internal non-substantial component of non-homogeneous products. ^e For the product as a whole. ^f $\text{s1} = \text{SMOGR} \leq 30\text{m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 50\text{m}^2$; $\text{s2} = \text{SMOGR} \leq 180\text{m}^2/\text{s}^2$ and $\text{TSP}_{600\text{s}} \leq 200\text{m}^2$; $\text{s3} = \text{not s1 or s2}$ ^g $\text{d0} = \text{No flaming droplets/ particles in EN 13823 within 600 s}$; $\text{d1} = \text{no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s}$; $\text{d2} = \text{not d0 or d1}$. 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). ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.		



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Photo Appendix:



SGS authenticate the photo on original report only

End of Report



SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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