



检测报告

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日期: 2026-07-09

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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 AJFTS26004433R01_EN 的中文译本, 如中英文有差异, 概以英文为准。

样品名称 : A2 钢复合板
生产商 : 江苏雅泰科技产业园有限公司
型号/货号 : /
结构组成 : 见第 6 页#

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 : SHIN2606005495PL01
试样收到日期 : 2026-06-09
测试执行时间 : 2026-06-09 至 2026-07-06
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“板材”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	板材
颜色	灰色
厚度	2.5mm
面密度	8.3 kg/m ²
暴露面	涂层面

安装和固定:

采用密度约为(870±50) kg/m³, 厚度约为(11±2) mm的硅酸钙板作为基材。样品用螺钉机械固定于基材上。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	23.4
	FIGRA _{0.4MJ} (W/s)		23.4
	火焰横向蔓延是否到达长翼边缘 (是/否)		否
	THR _{600s} (MJ)		1.2
	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	钢板: 0 芯材: 1.99
	PCS MJ/m ² ^b		涂层: 0.30
	PCS MJ/m ² ^d		高分子胶膜: 3.00
	PCS MJ/kg ^e		1.59

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, 板材, 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:

- 基材应符合欧洲 A1 或 A2-s1,d0 等级, 且其密度不低于标准基材名义密度的75%
- 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。

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		-
	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。

#结构组成:

制品描述	组份名称	面密度和厚度	颜色	所在层
1	油漆涂层	0.0215 kg/m^2 , 0.025 mm	银灰色	第一层
2	镀锌钢板	2.35 kg/m^2 , 0.3 mm	银色	第二层
3	高分子胶膜	0.067 kg/m^2 , 0.07 mm	透明白	第三层
4	阻燃芯材	3.5 kg/m^2 , 1.8 mm	白色	第四层
5	高分子胶膜	0.067 kg/m^2 , 0.07 mm	透明白	第五层
6	镀锌钢板	2.35 kg/m^2 , 0.3 mm	银色	第六层



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TEST REPORT

No.: AJFTS26004433R01_EN

Date: Jul 09,2026

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JIANGSU YARET TECHNOLOGY INDUSTRIAL PARK CO., LTD

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

Sample Name : A2 steel composite panel
Manufacturer : JIANGSU YARET TECHNOLOGY INDUSTRIAL PARK CO., LTD
Style/Item No. : /
Composition : See page 6 remark with #

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. : SHIN2606005495PL01
Sample Receiving Date : Jun 09,2026
Testing Period : Jun 09,2026 to Jul 06,2026
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

Eva

Eva Zhang
Approved signatory

Scan to see the report



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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 "Panel" is defined as a decorative sheet. Its classification is valid for the following end use application: For curtain wall decoration.

b) Description

Sample description	Panel
Color	Grey
Thickness	2.5mm
Mass per unit area	8.3 kg/m ²
Exposed surface	Coating surface

Mounting and fixing:

Calcium silicate board, with its density approximate (870±50) kg/m³, thickness approximate (11±2) mm, is as the substrate. The test specimens are fixed mechanically to the substrate with screws. 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	23.4
	FIGRA _{0.4MJ} (W/s)		23.4
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		1.2
	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	Steel plate: 0 core material: 1.99
	PCS MJ/m ² ^b		Coating: 0.30
	PCS MJ/m ² ^d		Polymer adhesive film: 3.00
	PCS MJ/kg ^e		1.59

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

c) Field of application

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

- With substrates classified as Euroclass A1 or A2-s1, d0 and at least 75% of the nominal value of the density of standard substrate.
- Mechanically fixing
- 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.

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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		-
	EN 13823	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	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	$FIGRA_{0.4\text{MJ}} \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	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	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	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 ⁱ 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 PCS $\leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: FIGRA $\leq 20 \text{ W/s}$, and LFS < edge of specimen, and THR_{600s} $\leq 4,0 \text{ MJ}$, and s1, and d0.
^d For any internal non-substantial component of non-homogeneous products.
^e For the product as a whole.
^f s1 = SMOGRA $\leq 30 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 50 \text{ m}^2$; s2 = SMOGRA $\leq 180 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 200 \text{ m}^2$; 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).
ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

Composition:

Description	Composition	Area density and Thickness	Color	Layers
1	Paint coating	0.0215kg/m ² , 0.025mm	Grey-Silver	Layer 1
2	Galvanized Steel	2.35kg/m ² , 0.3mm	Silver	Layer 2
3	Polymer film	0.067kg/m ² , 0.07mm	Transparent white	Layer 3
4	Flame-retardant core material	3.5kg/m ² , 1.8mm	White	Layer 4
5	Polymer film	0.067kg/m ² , 0.07mm	Transparent white	Layer 5
6	Galvanized Steel	2.35kg/m ² , 0.3mm	Silver	Layer 6



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Photo Appendix:



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End of Report



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

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