



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.23.03.001259

Date of Issue 04/04/2023

Applicant: ZHANGJIAGANG FEITENG NEW COMPOSITE MATERIALS CO.,LTD.

Applicant address: 77 Huada Rd., Environmental & New Material Industry Park, Bonded Port Zone, Zhangjiagang City, Jiangsu China.

Description of the test subject:

Sample	Description	Photo
001	Sample Description: Aluminum composite panels Style No.: 3mm Manufacturer: FEITENG	

Receipt Date of Sample: 03/27/2023

Date of Testing: From 03/28/2023 to 04/04/2023

Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Burning behaviour	EN 13501-1:2018	B-s1,d0

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

Laboratory:
TÜV SÜD SW Rail Transportation
Technology (Jiangsu) Co., Ltd.



Phone: +86/ (0) 519- 8123-9872
Fax: +86/ (0) 519- 8123-9872 ext.123
E-mail: czx.qm@tuvsud.com
www.tuvsud.com

Regd. Office:
Innovative Industry Park, No. 377 Wuyinan Road,
National High and New Technology & Industry
Development Zone, Wujin, 213015 P.R. China



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.23.03.001259

Date of Issue 04/04/2023

Test Results

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

1. EN 13823:2020 reaction to fire tests for building products – building products excluding floorings exposed to the thermal attack by a single burning item

1.1 Sample details

Sample size	Long limb:1500mm×1000mm
	Short limb:1500mm×495mm
Thickness	About <u>3.0</u> mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

1.2 Results

	1	2	3	Average
FIGRA _{0.2MJ} (W/s)	0	0	0	0
FIGRA _{0.4MJ} (W/s)	0	0	0	0
LFS< edge of specimen (Yes/No)	Yes	Yes	Yes	--
THR _{600s} (MJ)	0.1	0.1	0.1	0.1
SMOGRA(m ² /s ²)	0	0	0	0
TSP _{600s} (m ²)	7.0	6.1	5.8	6.3
Flaming particles or droplets(Yes/No)	No	No	No	--
Observe	--			

Remark:

FIGRA_{0.2MJ}=maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR-threshold of 0.2MJ

FIGRA_{0.4MJ}=maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR threshold of 0.4MJ

LFS=lateral flame spread on the long specimen wing

THR_{600s}=Total heat release from the specimen in the first 600s of exposure to the main burner flames

SMOGRA=smoke growth rate. the maximum of the quotient of smoke production rate from the specimen and the time of its occurrence

TSP_{600s}=Total smoke production from the specimen in the first 600s of exposure the main burner flames

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

Laboratory:
TÜV SÜD SW Rail Transportation
Technology (Jiangsu) Co., Ltd.

Phone: +86/ (0) 519- 8123-9872
Fax: +86/ (0) 519- 8123-9872 ext.123
E-mail: czx.qm@tuvsud.com
www.tuvsud.com

Regd. Office:
Innovative Industry Park, No. 377 Wuyinan Road,
National High and New Technology & Industry
Development Zone, Wujin, 213015 P.R. China

Page 2 of 5



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.23.03.001259

Date of Issue 04/04/2023

2. EN ISO 11925-2:2020 Reaction to fire tests- ignitability of building products subjected to direct impingement of flame- part2: single-flame source

2.1 Sample details

Sample size	250mm×90mm
Thickness	About 3.0 mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
	23±2	50±5	≥48

2.2 Test results

Face ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

Edge ignition

Specimen	1	2	3
Whether ignition occurs (Yes/No)	No	No	No
Whether the flame tip reaches 150mm above the flame application point (Yes/No)	No	No	No
The time of the flame tip reaches 150mm above the flame application point.	--	--	--
Whether ignition of the filter paper occurs(Yes/No)	No	No	No

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

Laboratory:
TÜV SÜD SW Rail Transportation
Technology (Jiangsu) Co., Ltd.



Phone: +86/ (0) 519- 8123-9872
Fax: +86/ (0) 519- 8123-9872 ext.123
E-mail: czx.qm@tuvsud.com
www.tuvsud.com

Regd. Office:
Innovative Industry Park, No. 377 Wuyinan Road,
National High and New Technology & Industry
Development Zone, Wujin, 213015 P.R. China



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.23.03.001259

Date of Issue 04/04/2023

EN 13501-1:2018 table 1 - classification:

Classification	Test method		Classification criteria
B	EN 13823 and		FIGRA _{0.2MJ} ≤120W/s; LFS< edge of specimen THR _{600s} ≤7.5 MJ
	EN ISO 11925-2 Exposure = 30 s		Fs ≤150mm within 60s
Additional classification	Smoke	s1	SMOGRAS ≤ 30 m ² /s ² , TSP _{600s} ≤50m ²
		s2	SMOGRAS ≤ 180 m ² /s ² , TSP _{600s} ≤200m ²
		s3	Not s1 or s2
	Flaming droplets/particles	d0	No flaming droplets/particles occur within 600s
		d1	No flaming droplets/particles persisting longer than 10 s within 600s
		d2	Not d0 or d1 Ignites of the paper in EN ISO 11925-2 results in a d2 classification.

Conclusion:

Test standard	Record	Conclusion
EN 13823	FIGRA _{0.2MJ} = 0W/s LFS < Sample edge THR _{600s} = 0.1MJ SMOGRAS=0m ² /s ² TSP _{600s} =6.3m ² No flaming droplets/particles occur within600s	B-s1,d0
EN ISO 11925-2	FS<150mm within 60s No ignition of the filter paper occurs.	

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

Laboratory:
TÜV SÜD SW Rail Transportation
Technology (Jiangsu) Co., Ltd.



Phone: +86/ (0) 519- 8123-9872
Fax: +86/ (0) 519- 8123-9872 ext.123
E-mail: czx.qm@tuvsud.com
www.tuvsud.com

Regd. Office:
Innovative Industry Park, No. 377 Wuyinan Road,
National High and New Technology & Industry
Development Zone, Wujin, 213015 P.R. China



中国认可
国际互认
检测
TESTING
CNAS L6069



Test Report

Report No. TC.23.03.001259

Date of Issue 04/04/2023

Statement: 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 smoke and toxicity hazard of the product in use. Test results are just for internal reference.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Drafted by:

Jinqiang Zhou

Approved by:

Wayne Wang

-End of Report-

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

Laboratory:
TÜV SÜD SW Rail Transportation
Technology (Jiangsu) Co., Ltd.



Phone: +86/ (0) 519- 8123-9872
Fax: +86/ (0) 519- 8123-9872 ext.123
E-mail: czx.qm@tuvsud.com
www.tuvsud.com

Regd. Office:
Innovative Industry Park, No. 377 Wuyinan Road,
National High and New Technology & Industry
Development Zone, Wujin, 213015 P.R. China