







Report No. TC.23.03.001257

Date of Issue 04/07/2023

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.: 4mm Manufacturer: FEITENG	

Receipt Date of Sample: 03/27/2023

Date of Testing: From 03/27/2023 to 04/07/2023

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

Conclusion:

Laborato

TÜV SÜD SWRail Transportation Technology (Jrangsu) Co., Ed.

检验检测专用章

Test Ite	Conclusion		
No.	No. Items Standard		
1	Burning behaviour	EN 13501-1:2018	C-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.twysud.gov/rn-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.











Report No. TC.23.03.001257

Date of Issue 04/07/2023

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

1.1 Sample details	
Sample size	Long limb:1500mm×1000mm
Sample Size	Short limb:1500mm×495mm
Thickness	About <u>4.0</u> mm

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

1.2 Test results

1.Z TOST TOSUITS				
	1	2	3	Average
FIGRA _{0.2MJ} (W/s)	11.2	0	25.6	12.3
FIGRA _{0.4MJ} (W/s)	11.2	0	25.6	12.3
LFS< edge of specimen (Yes/No)	Yes	Yes	Yes	
THR _{600s} (MJ)	0.5	0.4	0.9	0.6
SMOGRA(m ² /s ²)	0	0	2.0	0.7
TSP _{600s} (m ²)	5.6	8.2	9.7	7.8
Flaming particles or droplets (Yes/No)	No	No	No	
Observe		-	-	

Remark:

Laborator TÜV SÜD SW Rail Jensportation Technology (Jrangsu) Co., Ed.

检验检测专用章

FIGRA_{0.2MJ}=maximum of the quotient of heat release rate from the specimen and the time of its occurrence suing 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.twvs.id.gov/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 provided by the company.

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









Report No. TC.23.03.001257

Date of Issue 04/07/2023

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

zir Gampie agtane	
Sample size	250mm×90mm
Thickness	About <u>4.0</u> mm

Precondition	Temperature (°C)	Humidity (%)	Duration (h)
Precondition	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

Laboratory TÜV SÜD SW Rail Transportation Technology (Jrangsu) Co., Eta

检验检测专用章

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.turs.ud.gn/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.

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





中国认可 国际互认 检测 TESTING CNAS L6069



Test Report

Report No. TC.23.03.001257

Date of Issue 04/07/2023

EN 13501-1:2018 table 1 - classification:

Classification	Test method		Classification criteria	
Ciassilication	rest method		Ciassification Citiena	
			FIGRA _{0.4MJ} <250W/s	
	EN 13823 and	b	LFS< edge of specimen	
С			THR _{600s} ≤15MJ	
	EN ISO 11925	-2	Fs ≤150mm within 60s	
	Exposure = 30 s		SOO NIMI WITH ST	
		s1	SMOGRA≤ 30 m ² /s ² , TSP _{600s} ≤50m ²	
	Smoke	s2	SMOGRA≤ 180 m ² /s ² , TSP _{600s} ≤200m ²	
		s3	Not s1 or s2	
Additional		d0	No flaming droplets/particles in EN 13823 within 600s	
classification		d1	No flaming droplets/particles persisting longer than 10 s i	
Classification	Flaming	a i	EN 13823 within 600s	
	droplets/particles d2		Not d0 or d1	
		d2	Ignites of the paper in EN ISO 11925-2 results in a d2	
			classification.	

Conclusion:

Laboratory TÜV SÜD SWRail Transportation Technology (Jangsu) Co., Ed.

检验检测专用章

Oonolasion.		
Test standard	Record	Conclusion
	FIGRA _{0.4MJ} = 12.3 W/s LFS < Sample edge	
EN 13823	THR _{600s} =0.6 MJ SMOGRA=0.7 m ² /s ²	
	TSP _{600s} =7.8 m ² No flaming droplets/particles persisting longer	C-s1,d0
	than 10 s within600s	
EN ISO 11925-2	Fs ≤ 150mm within 60s	
LIV 100 11925-2	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.turs.ud.gn/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.

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









Jingiang Zhou

Report No. TC.23.03.001257

Date of Issue 04/07/2023

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 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: 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.barsurg.cn/rh.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.

TÜV SÜD SW Rail Transportatio Technology (Jrangsu) Co., Lad. 检验检测专用章

Laborat