

# TOP ACE DEVELOPMENT LIMITED

# **TEST REPORT**

**REPORT NUMBER** 190430011SHF-007

**ISSUE DATE** 2019/5/17

**PAGES** 6

DOCUMENT CONTROL NUMBER LFT-APAC-SHF-OP-10k © 2018 INTERTEK





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# **Test Report**

Issue Date:	2019/5/17	Intertek Report No.	190430011SHF-007
Applicant:	TOP ACE DEVELOPMENT LIMITE	D	
Applicant Address:	708, No.341, Fude Road, Qiaona	an Street, Panyu Distri	ct, Guangzhou, China
Attn:	Anson		
SUBJECT:	Performance testing		
	Aluminum composite panel		
BRAND NAME:	ACEBOND		

Dear Sir,

This test report represents the results of our evaluation of the above referenced product(s) to the requirements contained in the following standards:

#### **TEST METHODS AND STANDARDS**

### Refer to the next following Pages.

SAMPLE ID	MODEL	SPECIFICATION
S190430011SHF.007	FR	4MM(0.50+0.50) PVDF

SAMPLE RECEIVED:	2019/4/30		
TESTED FROM:	2019/4/30	ТО	2019/5/17

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### Test Items, Method and Results:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

### **1.1 SINGLE BURNING ITEM TEST**

The test was conducted in accordance with EN 13823. This test evaluates the potential contribution of a product to the development of a fire, under a fire situation simulating a single burning item near to the product.

### **1.2 IGNITABILITY TEST**

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

### **1.3 CLASSIFICATION CRITERIA**

The classification was determined in accordance with EN 13501-1:2007+A1:2009. The class B with its corresponding fire performance is given in the table below.

Table - Classes of reaction to fire performance for construction products excluding floorings and linear						
		pipe thermal insulation product	S.			
Class	Test Method(s)	Classification criteria	Additional classifications			

Class	Test Method(s)	Classification criteria	Additional classifications	
В	EN 42022	FIGRA $\leq$ 120 W/s and	Smake production <sup>a</sup> and	
	and	LFS < edge of specimen and		
		$THR_{600s} \leq 7.5 \; MJ$	Sinoke production and	
	EN ISO 11925-2 <sup>c</sup> Exposure = 30 s	FS $\leq$ 150 mm within 60 s	Flaming droplets/particles	

#### Note:

a. In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

 $s1 = SMOGRA \le 30m^2/s^2$  and  $TSP_{600s} \le 50m^2$ ;  $s2 = SMOGRA \le 180m^2/s^2$  and  $TSP_{600s} \le 200m^2$ ; s3 = not s1 or s2

b. d0 = no flaming droplets/particles in EN 13823 within 600s;

d1 = no flaming droplets/particles persisting longer than 10s in EN 13823 within 600s;

d2 = not d0 or d1.

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

c. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.



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Test Items, Method and Results:

### **2 RESULTS AND OBSERATIONS**

Method	Parameter	Result
	FIGRA <sub>0.2MJ</sub> , W/s	9
	THR <sub>600s</sub> , MJ	1.0
	LFS, m <edge of="" specimen<="" td=""></edge>	
EN 13823:2010+A1:2014*	SMOGRA, m <sup>2</sup> /s <sup>2</sup> 2	
	$TSP_{600s}, m^2$	30
	Flaming Droplets/Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2010	$F_{S} \le 150 \text{ mm}$ within 60 s	Yes
Exposure = 30 s	Ignition of the paper	No

#### Note

1. Test item marked with \* was conducted at the external approved facility, located at Guangzhou.

2. Per EN 13823, the samples were free standing at a distance of 80mm from the backing board. Backing board was a 12mm thick calcium silicate board. The density of the calcium silicate board was 900kg/m<sup>3</sup>.

#### **3 CLASSIFICATION**

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production			Flaming droplets		
В	-	S	1	I	d	0	

Reaction to fire classification: B-s1, d0



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#### 4 Test Photos of EN 13823



Before test (Long wing)



Before test (Short wing)



After test (Long wing)



After test (Short wing)



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#### **APPENDIX: SAMPLE RECEIVED PHOTO**



Front View (Test Face)



### **REPORT AUTHORIZED**

When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

检验检测专用章 ally Rian od Tod Qian Sally Xie Name: Name:

**Title: Reviewer** 

Title: Project Engineer

#### **Revision:**

NO.	DATE	CHANGES	AUTHOR	REVIEWER
190430011SHF-007	2019/5/17	First issue	Tod Qian	Sally Xie