

Hangzhou Dasuo Technology Co., Ltd.

TEST REPORT

SCOPE OF WORK

Fire-resistant Bamboo material

REPORT NUMBER

190711007SHF-001

TEST DATE(S)

2019-07-11 - 2019-07-24

ISSUE DATE

2019-07-24

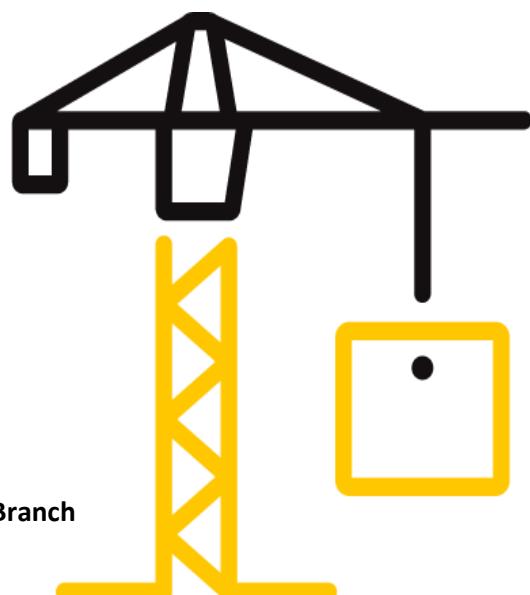
PAGES

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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2019)

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Test Report

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Test Report

Issue Date: 2019-07-24 Intertek Report No. 190711007SHF-001

Applicant: Hangzhou Dasuo Technology Co., Ltd.

Address: Xinhe Village, Linpu town, Xiaoshan district, Hangzhou, Zhejiang, China

Manufacturer: Fujian Dasso Bamboo Technology Co., Ltd

Address: Zhuhai Trading mall, Jianou city, Fujian province

Attn: Ping Gao

Test Type : Performance test, samples provided by the applicant.

Product Information

Product Name	Fire-resistant Bamboo material	Brand	 DASSO 大庄
Sample Description	Good Condition		Sample Amount 10 pcs
		Received Date	2019-07-10
Sample ID		Model	Specification
S190711007SHF.001~002		ZR Bamboo	3000x100x9mm

Test Methods And Standards

Test Standard	EN 13823:2010+A1:2014* and EN ISO 11925-2:2010
Specification Standard	EN 13501-1:2018
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1. This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

 Name: Sally Xie
 Title: Reviewer

Name: Tod Qian

Title: Project Engineer



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Test Items, Method and Results:

EN 13501-1:2018 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 13501-1:2018. 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 products.

Class	Test Method(s)	Classification criteria	Additional classifications
B	EN 13823 and	FIGRA _{0.2MJ} ≤ 120 W/s and LFS < edge of specimen and THR _{600s} ≤ 7.5 MJ	Smoke production ^a and Flaming droplets/particles ^b
	EN ISO 11925-2 ^c Exposure = 30 s	F _s ≤ 150 mm within 60 s	

Note:

a. s1 = SMOGRA ≤ 30m²/s² and TSP_{600s} ≤ 50m²; s2 = SMOGRA ≤ 180m²/s² and TSP_{600s} ≤ 200m²; 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
EN 13823:2010+A1:2014*	FIGRA _{0.2MJ} , W/s	27
	THR _{600s} , MJ	1.6
	LFS, m	<Edge of Specimen
	SMOGRA, m ² /s ²	2
	TSP _{600s} , m ²	34
	Flaming Droplets/Particles	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2010 Exposure = 30 s	F _s ≤ 150 mm within 60 s	Yes
	Ignition of the paper	No

Note

- *Test item is subcontracted on accreditation by CNAS L0057.
- 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/m³.

3 CLASSIFICATION

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

Fire behaviour	Smoke production			Flaming droplets		
	B	-	S	1	-	d

Reaction to fire classification:

B-s1, d0

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Test Items, Method and Results:

4 Test Photos of EN 13823



Before test (Long wing)



Before test (Short wing)



After test (Long wing)



After test (Short wing)

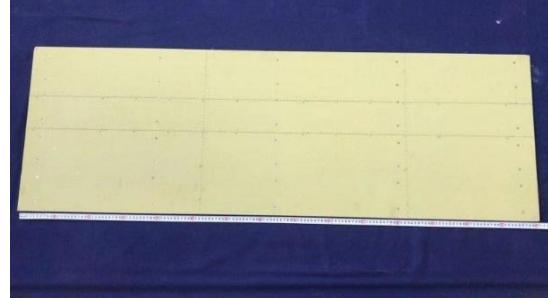
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Appendix A: Sample Received Photo

Front view



Back view

Revision:

NO.	Date	Changes	Author	Reviewer
190711007SHF-001	2019-07-24	First issue	Tod Qian	Sally Xie