

# RADIAL ENGINEERING LTD

## **TEST REPORT**

#### **SCOPE OF WORK**

**BROADBAND** 

#### **REPORT NUMBER**

211012007SHF-001

#### **TEST DATE(S)**

2021-10-12-2021-10-27

#### **ISSUE DATE**

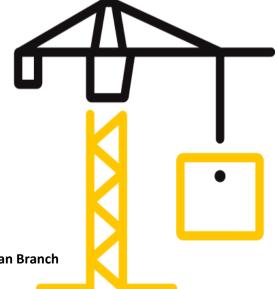
2021-11-01

#### **PAGES**

7

#### **DOCUMENT CONTROL NUMBER**

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch





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## **Test Report**

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## **Test Report**

Issue Date: 2021-11-01 Intertek Report No. 211012007SHF-001

Applicant: RADIAL ENGINEERING LTD

Address: 1845 KINGSWAY UNIT 1165, PORT COQUITLAM, V3C 1S9. CANADA

Attn: JUAN CARLOS BOLOMEY

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

#### **Product Information**

<b>Product Name</b>		BROADBAND	Brand	PRIMACOUSTIC	
Sample		Good Condition	Sample Amount	8 pcs + 1 package	
Description		Good Condition	Received Date	2021-09-30	
Sample ID		Model	Specification		
S211012007SHF.001		DAM/ DANIEL	48"×48" NO FABRIC FINISH		
S211012007SHF.003		RAW PANEL			

#### **Test Methods And Standards**

Test Standard	EN 13823:2010+A1:2014 and EN ISO 1716:2010			
Specification Standard	EN 13501-1:2018			
<b>Test Conclusion</b>	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

Lu Cheng roject Engineer

Nam/e



Issue Date: 2021-11-01 Intertek Report No. 2110120075HF-001

#### **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 HEAT OF COMBUSTION TEST

The test was conducted in accordance with EN ISO 1716. This test evaluates the gross heat of combustion ( $Q_{PCS}$ ) of products at constant volume in a bomb calorimeter.

#### 1.2 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.

#### 1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class A2 with its corresponding fire performance is given in the table below.

Table - Class of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test Method(s)	Classification criteria	Additional classifications
A2	EN ISO 1716 and	PCS $\leq$ 3.0 MJ/kg <sup>a</sup> and PCS $\leq$ 4.0 MJ/m <sup>2 b</sup> and PCS $\leq$ 4.0 MJ/m <sup>2 c</sup> and PCS $\leq$ 3.0 MJ/kg <sup>d</sup>	-
	EN 13823	FIGRA <sub>0.2MJ</sub> $\leq$ 120 W/s and LFS < edge of specimen and THR <sub>600s</sub> $\leq$ 7.5 MJ	Smoke production <sup>e</sup> and Flaming droplets/particles <sup>f</sup>

#### Note:

- a. For homogeneous products and substantial components of non-homogeneous products.
- b. For any external non-substantial component of non-homogeneous products.
- c. For any internal non-substantial component of non-homogeneous products.
- d. For the product as a whole.
- e. s1 = SMOGRA  $\leq$  30m<sup>2</sup>/s<sup>2</sup> and TSP<sub>600s</sub>  $\leq$  50m<sup>2</sup>; s2 = SMOGRA  $\leq$  180m<sup>2</sup>/s<sup>2</sup> and TSP<sub>600s</sub>  $\leq$  200m<sup>2</sup>; s3 = not s1 or s2.
- f. 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.



Issue Date: 2021-11-01 Intertek Report No. 2110120075HF-001

#### Test Items, Method and Results:

#### **2 RESULTS AND OBSERATIONS**

Method	Parameter		Result		
EN ISO 1716:2010	PCS the product, MJ/kg		2.0		
	FIGRA <sub>0.2MJ</sub> , W/s		32		
EN 13823:2010+A1:2014 *	THR <sub>600s</sub> , MJ		1.6		
	LFS, m		<edge of="" specimen<="" td=""></edge>		
	SMOGRA, m <sup>2</sup> /s <sup>2</sup>		0		
	TSP <sub>600s</sub> , m <sup>2</sup>		22		
	Flaming droplets/particles		No flaming droplets/particles occur within 600s		

#### Note

- 1. \*Test item is subcontracted on accreditation by CNAS L0057.
- 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			Flai	ming Droplets
A2	1	S	1	ı	d	0

Reaction to fire classification: A2 - s1, d0



Issue Date: 2021-11-01 Intertek Report No. 211012007SHF-001

#### **Test Items, Method and Results:**

#### 4 Test Photos of EN 13823



Before test (Long wing)



After test (Long wing)



Before test (Short wing)



After test (Short wing)



Issue Date: 2021-11-01 Intertek Report No. 211012007SHF-001

#### **Appendix A: Sample Received Photo**







Back view

### Revision:

NO.	Date	Changes		
211012007SHF-001	2021-11-01	First issue		