

# CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH BS EN 13501-1:2018

## Test Sponsor:

Panel Technology Factory (Technopanel)

Al-Masha'el

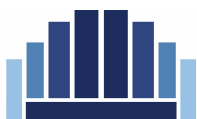
Riyadh, Saudi Arabia

T: +966 92 000 6292

Website: [www.technopanel.com.sa](http://www.technopanel.com.sa)

## Test Material / Assembly:

4mm thick Aluminium Composite Panel-FRB1



**THOMAS BELL-WRIGHT  
INTERNATIONAL CONSULTANTS**

Issue Date: 13-Feb-23

Classification Report Reference No: WC029-4

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## **1. INTRODUCTION**

This classification report defines the classification assigned to 4mm thick Aluminium Composite Panel-FRB1 in accordance with the procedures given in BS EN 13501-1:2018: Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests.

## **2. SPONSOR**

Name: Panel Technology Factory (Technopanel)  
Address: Al-Masha'el  
Riyadh, Saudi Arabia  
T: +966 92 000 6292  
Website: [www.technopanel.com.sa](http://www.technopanel.com.sa)

## **3. TESTING LABORATORY**

Name: Thomas Bell-Wright International Consultants (TBWIC)  
Address: Corner of 46th and 47th Streets,  
Jebel Ali Industrial Area 1  
Dubai, UAE  
T: T: +971 04 821 5777  
Website: [www.bell-wright.com](http://www.bell-wright.com)

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## 6. REPORT & TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### 6.1. Reports

Name of Laboratory	Test Sponsor	Test Report No.	Test Method/Field of Application Rules
Thomas Bell-Wright International Consultants (TBWIC)	Panel Technology Factory (Technopanel)	WC029-2	BS EN ISO 11925-2:2020
		XA017-1	BS EN 13823:2020

### 6.2. Results

Test Method	Parameter	No. of tests	Results	
			Continuous parameter- mean (m)	Compliance parameters
BS EN ISO 11925-2:2020	$F_s \leq 150\text{mm}$ within 60 seconds	12	$F_s \leq 150\text{mm}$	Compliant
	Ignition of filter paper		Nil	Compliant

Test Method	Test Parameters	No. of tests	Results	
			Continuous parameter-mean (m)	Compliance parameters
BS EN 13823:2020	$FIGRA_{0.2\text{MJ}} \leq 120 \text{ W/s}$	3	16	Compliant
	$THR_{600\text{s}} \leq 7.5 \text{ MJ}$	3	1.6	Compliant
	Lateral Flame Spread < Edge of specimen	3	< Edge of specimen	Compliant
	<b>CRITERIA for subclass "s1"</b>			
	$SMOGR_A \leq 30 \text{ m}^2/\text{s}^2$ <i>Note1</i>	3	0	Compliant
	$TSP_{600\text{s}} \leq 50 \text{ m}^2$ <i>Note1</i>	3	18	Compliant
<b>CRITERIA for subclass "d0"</b>				
	Flaming droplets/Particles within 600s	3	Nil	Compliant



## 7. CLASSIFICATION & FIELD OF APPLICATION

### 7.1. Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2018.

### 7.2. Classification

The product, 4mm thick Aluminium Composite Panel-FRB1, in relation to its reaction to fire behavior are classified;

Fire behavior		Smoke Production			Flaming droplets	
<b>B</b>	-	s	1	,	d	0

**Reaction to fire classification: B – s1, d0**

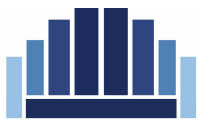
### 7.3. Field of application

This classification is valid for the following end use applications:

- i. Construction applications

This classification is also valid for the following product parameters:

Overall Product Thickness	No variation allowed
Product Density	No variation allowed
Product Composition	No variation allowed
Product Construction	No variation allowed
Color	No variation allowed
Joints	Results valid for material with or without vertical & horizontal joints of $\leq 15$ mm



## 8. LIMITATIONS

This document does not represent type approval or certification of the product. Similarly, the BS EN 13823 / BS EN ISO 11925-2 fire tests and related work which are a subject of this classification report have been conducted under Thomas Bell-Wright International Consultant’s ISO 17025 UKAS accreditation scheme and quality management system. However, pursuant to UKAS Technical Bulletin *BS EN 13501 & BR 135 Classification Documents (Dated 02-Feb-2022)*, classification documents are completed on an unaccredited basis because they are not themselves test procedures. As such, this document is prepared on an unaccredited basis.

This report and all records of the test to which it relates may be not be retained by TBWIC further than 5 years from the date of testing.

This test report is respectfully submitted by: Thomas Bell-Wright International Consultants

Prepared by:

Reviewed and Authorized by:



Malak Megly  
Junior Fire Testing Engineer

Suketa Tyagi  
Manager – Reaction to Fire

Report Revision Tracking		
Revision No.	Date Issued	Notes & Amendments
Rev. 00	13-Feb-23	This is the first issue of the report. No revisions are included.