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

#### **Test Sponsor:**

Panel Technology Factory (Technopanel) Al Mashael Riyadh, Saudi Arabia T: +966 920 006 292 Website: www.technopanel.com.sa

# Test Material / Assembly:

4mm thick Aluminium Composite Panel-FR A2



Issue Date: 04-Jan-23 Classification Report Reference No: WC029-8

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# **1. INTRODUCTION**

This classification report defines the classification assigned to 4mm thick Aluminium Composite Panel-FR A2 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 Mashael Riyadh, Saudi ArabiaT: +966 920 006 292Website: 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

# 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	Panel Technology	WC029-6	BS EN 13823:2020
Consultants (TBWIC)	(Technopanel)	WC029-7	BS EN ISO-1716:2018

#### 6.2.Results

			Results	
Test Method	Test Parameters	No. of tests	Continuous parameter- mean (m)	Compliance parameters



FIGRA <sub>0.2MJ</sub> ≤ 120 W/s		3	5	Compliant
	THR600s ≤ 7.5 MJ	3	0.8	Compliant
	Lateral Flame Spread < Edge of specimen	3	< Edge of specimen	Compliant
BS EN	CRITERIA for subclass "s1"			
13823:2020	SMOGRA ≤ 30 m <sup>2</sup> /s <sup>2 Note1</sup>	3	0	Compliant
	TSP600s ≤ 50 m <sup>2 Note1</sup>	3	16	Compliant
	CRITERIA for subclass "d0"			
	Flaming droplets/Particles within 600s	3	Nil	Compliant

				Results	
Test Method	Param	No. of tests	Continuous parameter- mean (m)	Compliance parameters	
	PCS≤ 4.0 MJ/m <sup>2</sup> (for External Non-	Topcoat + Primer	3	0.7	Compliant
Substantial component)	Back coat	3	0.2	Compliant	
BS EN ISO- 1716:2018PCS≤ 3.0 MJ/kg (for Substantial component)PCS≤ 4.0 MJ/m² (for Internal Non- Substantial component)	PCS≤ 3.0 MJ/kg (for Substantial	Aluminium Skin	0	0.0	Compliant
	A2 Core	3	1.4	Compliant	
	PCS≤ 4.0 MJ/m <sup>2</sup> (for Internal Non- Substantial component)	Adhesive	3	3.6	Compliant
	PCS≤ 3.0 MJ/kg (For product as a whole)			1.9	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-FR A2 in relation to its reaction to fire behavior are classified;



Fire behavior		Smoke Pro	oduction		Flaming c	lroplets
A2	-	S	1	,	d	0

# Reaction to fire classification: A2 – 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
Joints	Results valid for material with or without vertical & horizontal joints of $\leq 15$ mm
Colors	No variation allowed

### 8. LIMITATIONS

This document does not represent type approval or certification of the product. Similarly, the BS EN 13823 / BS EN ISO 1716 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:
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<u> </u>	P.O.Box: 26385
Sam Sancho Thomas	s Suketa Tyagi
Fire Testing Enginee	er Bell-Wright Int'l Consultants (Public Manager – Reaction to Fire

Report Revision Tracking				
Revision No. Date Issued Notes & Amendments				
Rev. 00	04-Jan-23	This is the first issue of the report. No revisions are included.		