

TEST REPORT

REACTION TO FIRE TEST

Test Sponsor:

Panel Technology Factory (Technopanel)
Al-Mashaal
Riyadh, Saudi Arabia
T: +966 92 000 6292
Website: www.technopanel.com.sa

Test Material / Assembly:

4mm thick Aluminium Composite Panel-FRB1

Test Standard

BS EN 11925-2: 2020 - Ignitability of products subjected to direct impingement of flame
(Part2: Single-flame source test)



THOMAS BELL-WRIGHT
INTERNATIONAL CONSULTANTS

Test Date: 08-Jun-22
Issue Date: 13-Feb-23
Test Reference No: WC029-2

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1. INTRODUCTION

Determination of the performance of 4mm thick Aluminium Composite Panel-FRB1 when subjected to the conditions of the test specified in BS EN ISO 11925-2:2020 “Reaction to Fire tests - Ignitability of Building Products Subjected to Direct Impingement of Flame – Part 2: Single Flame Source Test”.

2. SPONSOR

Name: Panel Technology Factory (Technopanel)
Address: Al-Masha'el
Riyadh, Saudi Arabia
T: +966 92 000 6292
Website: 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, United Arab Emirates
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Website: www.bell-wright.com

4. DATE OF TEST

Sample received: 06-Jun-22
Test date: 08-Jun-22

The test was not witnessed by the sponsor.

7. METHOD OF TEST

7.1. Test Procedure

The test was carried out in accordance with BS EN ISO 11925-2:2020, “Reaction to Fire tests - Ignitability of Building Products Subjected to Direct Impingement of Flame – Part 2: Single Flame Source Test”.

7.2. Conditioning

After delivery on 6-Jun-22 the specimens were conditioned to constant weight at 21 to 25 °C and 45 to 55% relative humidity as per BS EN 13238:2010 “Reaction to fire tests for building products – Conditioning procedures and general rules for selection of substrates”.

Note: There were deviations observed in the temperature and relative humidity in 4 separate probes of thermo-hygrometer in our conditioning room, however the average values were within the limit.



8. SUMMARY OF RESULTS

The test specimen has been evaluated in accordance with BS EN ISO 11925-2:2020 “Reaction to Fire tests - Ignitability of Building Products Subjected to Direct Impingement of Flame – Part 2: Single Flame Source Test.

Deviations: No deviations from the test method.

8.1. Test results:

Table 1: Test Flame Application Position and Time – Surface Exposure for 30 seconds

Specimen No.	Orientation of the specimen	Ignition Yes/No	Time from start of test for flame tip to reach 150mm (seconds)	Extent of Flame Spread (mm)	Flaming Droplets/ particles (Y/N)	Glowing (Y/N)
1	Lengthwise	No	Not Reached	<150	Nil	Nil
2	Lengthwise	No	Not Reached	<150	Nil	Nil
3	Lengthwise	No	Not Reached	<150	Nil	Nil
4	Crosswise	No	Not Reached	<150	Nil	Nil
5	Crosswise	No	Not Reached	<150	Nil	Nil
6	Crosswise	No	Not Reached	<150	Nil	Nil

Table 2: Test Flame Application Position and Time – Edge Exposure for 30 seconds

Specimen No.	Orientation of the specimen	Ignition Yes/No	Time from start of test for flame tip to reach 150mm (seconds)	Extent of Flame Spread (mm)	Flaming Droplets/ particles (Y/N)	Glowing (Y/N)
1	Lengthwise	No	Not Reached	<150	Nil	Nil
2	Lengthwise	No	Not Reached	<150	Nil	Nil
3	Lengthwise	No	Not Reached	<150	Nil	Nil
4	Crosswise	No	Not Reached	<150	Nil	Nil
5	Crosswise	No	Not Reached	<150	Nil	Nil
6	Crosswise	No	Not Reached	<150	Nil	Nil



9. LIMITATION

“The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use” – Clause 9r, BS EN ISO 11925-2.

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.

---- End of Test Report ----