# TEST REPORT

**Report No.: MR-271225-198-A**

| | |
|---|---|
| **Client / Establishment** | : M/s. TAS INTERNATIONAL MANUFACTURING COMPANY<br>Building No: 4252,Secondary No: 8797, AL Dilam 395, Street No: 26,Al Kharj Industrial City, Riyadh, Kingdom of Saudi Arabia (KSA). |

| | |
|---|---|
| Sample ID | : MS-271225-198 |
| Sample Receiving Date | :27/12/2025 |
| Reporting Date | : 12/02/2026 |
| Date of Analysis | : 27/12/2025 -10/01/2026 |
| Tested by | : AM |
| Issue No | : 01 (Re-Issue Date: NA) |

**Sample Information:**

| | |
|---|---|
| Sample Description | : FR3-ACP (Class B s1, d0) |
| Manufacture | : TAS INTERNATIONAL MANUFACTURING COMPANY |
| Trade Name | : "ALCLAD FR " |

**Test Results**:

**TEST METHOD**:

ISO 11925-2:2020; Reaction to fire tests -Ignitability of products subjected to direct impingement of flame – Part 2: Single-flame source test.

**SUMMARY OF RESULTS**

**A. Surface Exposure:**

Exposure Time: 30 Seconds

Flame application point: 40 mm from bottom edge

| ***Specimen No.*** | **1** | **2** | **3** | **4** | **5** | **6** |
|---|---|---|---|---|---|---|
| ***Performance Criteria*** | ***Whether the flame front reaches 150 mm above the application point Within 60 seconds*** | | | | | |
| ***Observation*** | No | No | No | No | No | No |
| ***Ignition of the filter paper*** | No | No | No | No | No | No |

**B. Edge Exposure:**

Exposure Time: 30 Seconds

Flame application point: Bottom edge of specimen

| ***Specimen No.*** | **1** | **2** | **3** | **4** | **5** | **6** |
|---|---|---|---|---|---|---|
| ***Performance Criteria*** | ***Whether the flame front reaches 150 mm above the application point within 60 seconds*** | | | | | |
| ***Observation*** | No | No | No | No | No | No |
| ***Ignition of the filter paper*** | No | No | No | No | No | No |



P.O. Box:31442, Ajman – UAE | Tel: +971 67 445538 | E-mail: lab@metslab.com | Web:www.metslab.com

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**Note:** No traceability details were provided by the client

**Prepared by**

**Team Head**
**Material Science Division (MSD)**
**Employee Code: METS AJ EC 220**

**Verified by**

**Supervisor**
**Fire & Material Science Division**
**Employee Code: METS AJ EC 110**

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.
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-End of Report-

# TEST REPORT

**Report No.: MR-271225-198-B**

| | |
|---|---|
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| | |
|---|---|
| Sample ID | : MS-271225-198 |
| Sample Receiving Date | : 27/12/2025 |
| Reporting Date | : 12/02/2026 |
| Date of Analysis | : 22/01/2026-31/01/2026 |
| Tested by | : AM |
| Issue No | : 01 (Re-Issue Date: NA) |

**Sample Information:**

| | |
|---|---|
| Product Name | : FR3-ACP (Class B s1, d0) |
| Dimension of Panels Used | : 1 panel of 600X600 x 4.12 mm (l x w x t) |
| No. of Panels | : 12 Nos. |
| Total Dimension | : 7200 x 600 X 4.12 mm (l x w x t) |
| Specimen Placement | : 12 Nos. of FR3-ACP (Class B s1, d0) were butt jointed end to end. |
| Manufacture | : TAS INTERNATIONAL MANUFACTURING COMPANY |
| Trade Name | : "ALCLAD FR " |

**Brief Evaluation of the Results:**

| | Test | Results |
|---|---|---|
| **MS-271225-198** | Surface burning characteristics of building materials (flame spread index and smoke developed index) as per ASTM E84-25 | FSI- 0<br>SDI- 0 |

The tested specimens qualified for Class A as per IBC.
The corresponding test results are furnished in following page

**Prepared by**

**Team Head**
**Material Science Division (MSD)**
**Employee Code: METS AJ EC 220**

**Verified by**

**Supervisor**
**Fire & Material Science Division**
**Employee Code: METS AJ EC 110**



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**Surface burning characteristics of building materials (Flame Spread Index and Smoke Developed Index)**

- **Test Method:** ASTM E84-25

  ASTM E84 standard, also known as the Standard Test Method for Surface Burning Characteristics of Building Materials, is a fire-test-response method used to evaluate the flame spread and smoke development of materials.

  A 24-foot-long and 24-inch-wide sample is placed in a tunnel-like apparatus called the Steiner Tunnel. The sample is exposed to controlled flames for 10 minutes, and the test measures how far and how quickly the flame spreads across the material's surface.

  The flame spread and smoke development are compared to reference materials, such as red oak (which has a flame spread index of 100) and cement board (which has an index of 0). Based on these results, materials are classified into categories (Class A, B, or C) according to their flame spread and smoke development indices.

- **Conditioning:**

  The sample was delivered on 22/01/2026 and stored in room temperature for 3 days prior to the test at 23°C ±2.8°& 50±5% relative humidity.

- **Specimen placing:**

  The specimen consisted of 12 nos. of FR3-ACP (Class B s1, d0) butt jointed end to end with an overall dimension of 7200x600x 4.12 mm were placed in the Steiner tunnel and supported by ledges

- **Test Procedure:**

  After placing the sample several sections of cement board were butt-jointed end to end along the upper ledge to protect the furnace lid assembly. The sample was exposed to the test flame 10 minutes. The flame front is tracked by an observer, referred to as the Reader, as it progresses down the length of the tunnel. Smoke density is measured with the use of a photometer system on the exhaust duct. Temperature data is recorded throughout the test by a thermocouple probe that is 23 feet from the centerline of the burner and approximately 1 inch below the sample surface

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## Results and Observations

**Flame Spread Data:**

| Time (Minutes) | Distance (Feet) |
|---|---|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0.4 |
| 10 | 0.4 |

**Flame Spread Result:**

| Parameters | Result |
|---|---|
| Calculated Flame Spread (CFS) | 0.7 |
| Flame Spread Index | 0 |

**Smoke Developed Result:**

| Parameters | Result |
|---|---|
| Calculated Smoke Developed | 0 |
| Smoke Developed Index | 0 |

**Observations:**

| | |
|---|---|
| **Dripping** | **None** |
| **Flaming on the floor** | **None** |
| **After flame on the top** | **None** |
| **After flame on the floor** | **None** |
| **Delamination** | **Yes** |
| **Sagging** | **None** |
| **Shrinkage** | **None** |
| **Fall out** | **None** |

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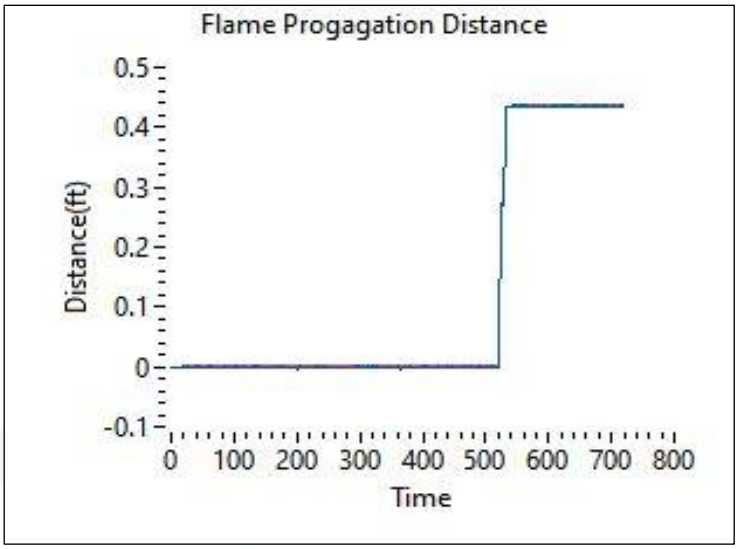
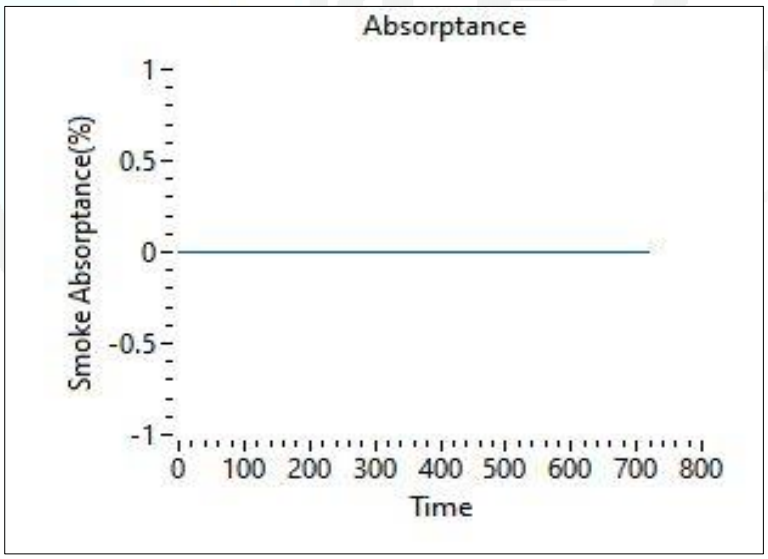
**Graphical results**




**Flame Spread Index (FSI)**




**Smoke Density Index**



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**Classification:**

Based on the International Building code (IBC) section 803.1.1, the interior wall and ceiling finish materials shall be classified in accordance with ASTM E 84-25

| Classification | Flame Spread Index | Smoke Development |
|---|---|---|
| Class 1 or A | 0-25 | 450 Maximum |
| Class 2 or B | 26-75 | 450 Maximum |
| Class 3 or C | 76-200 | 450 Maximum |

**Remarks: The tested specimen qualified for Class A as per IBC**

**Images of Test Specimen**



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**Photograph During Test**

**Photograph After Test**

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-End of Report-

# TEST REPORT

**Report No.: MR-271225-198-C**

| | |
|---|---|
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| | |
|---|---|
| Sample ID | : MS-271225-198 |
| Sample Receiving Date | :27/12/2025 |
| Reporting Date | : 12/02/2026 |
| Date of Analysis | : 27/12/2025 -10/02/2026 |
| Tested by | : AM |
| Issue No | : 01 (Re-Issue Date: NA) |

**Sample Information:**

| | |
|---|---|
| Sample Description | : FR3-ACP (Class B s1, d0) |
| Manufacture | : TAS INTERNATIONAL MANUFACTURING COMPANY |
| Trade Name | : "ALCLAD FR" |

**Result**

| Test Parameter | Test Method | Unit | Result |
|---|---|---|---|
| **Determining Ignition Temperature** | | | |
| **Spontaneous Ignition Temperature (SIT) °C** | ASTM D 1929:2023 | °C | 448 |
| **Flash Ignition Temperature (FIT) °C** | | °C | 432 |

**Note:** No traceability details were provided by the client

**Prepared by**

**Team Head**
**Material Science Division (MSD)**
**Employee Code: METS AJ EC 220**

**Verified by**

**Supervisor**
**Fire & Material Science Division**
**Employee Code: METS AJ EC 110**

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