

# CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality  
hereby attests that the product(s)

**Emirates panel-A2, Panbond-A2, Corebond-A2 (Aluminum composite panel)**

(Details as per the attached Scope of Certification)

manufactured by:

**Emirates Panel Manufacture LLC.**  
**Umm Al Quwain industrial area 1,UAE**

have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM third party product certification system through factory assessment" and the relevant Specific Rules, and were found in conformity with the standard specification:

## TAR 173

Accordingly, DCLD hereby authorizes the above manufacturer  
to affix the DCL Product Conformity Mark on the above-mentioned product(s).



for / ENGR. AMIN AHMED AMIN  
Director, Dubai Central Laboratory Department  
Dubai Municipality



Certificate No: CL20080173  
Valid Until: 09/03/2021

Current Issue Date: 10/03/2020  
Original Issue Date: 10/03/2020



The attached Scope of Certification bearing the same Certificate Number forms an integral part of this Certificate.  
This Certificate is an electronic document subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.

## 1 The Company

Emirates Panel Manufacture LLC.

Umm Al Quwain industrial area 1,UAE

## 2 Product trade name

Emirates panel-A2, Panbond-A2, Corebond-A2 (Aluminum composite panel)

## 3 Manufacturer

Emirates Panel Manufacture LLC.

## 4 Product Description

Panel-A2 is composed of two sheets of aluminum alloy 0.5 mm thickness EN AW -5005 or EN AW 3003, on top (coated with PVDF paint) & bottom (primer coated) which are sandwiched with non-combustible mineral core which continuous compositing process with thermoplastic adhesives film and protective film sheet.

## 5 Scope of approval

Scope of approval cover the following items only:

- *Emirates Panel-A2, 4mm thickness only (fire rated aluminum composite panel)*
- *Panbond-A2, 4mm thickness only (fire rated aluminum composite panel)*
- *Corebond-A2, 4mm thickness only (fire rated aluminum composite panel)*

### Exclusions:

- 1) *This approval does not cover the non fire resistive panels*
- 2) *This approval does not cover other types of panels*
- 3) *This approval does not cover panels of thickness other than mention in the scope*
- 4) *This approval does not cover the “cladding” systems made from these panels.*

## 6 Product Intended use

The product is intended for use in façade cladding and building interiors

## 7 Product characteristics

Product characteristic are as shown in Table 1.

Table 1 Product characteristics

S/N O.	Property	Test method	Requirement
1	Thickness of panels	Calibrated Caliper	4.0 ±0.2 mm
2	Weight of panels	Calibrated weighing device	≥ 8.2 kg/m <sup>2</sup> for 4 mm
3	Coating thickness	ASTM D 1400	25 -28 μm
4	Abrasion resistance	ASTM D 968 (Method A)	≥ 50 L/mil
5	Pencil hardness	ASTM D 3363	≥ H
6	Film adhesion	AAMA 2605 (Clause 7.4)	No loss of adhesion (0% failure)
7	Impact resistance	AAMA 2605 (Clause 7.5)	No removal of film from substrate
8	Shear strength	ASTM C 273	≥ 3.2 MPa
9	Peel off test	Peel off test (ASTM D903)	> 11 kg /25 mm
10	Corrosion resistance: 1. Humidity resistance for 4000 hrs at 38°C and 100%RH in accordance with ASTM D 2247 or ASTM D 4585. 2. Salt spray resistance ASTM B 117	AAMA 2605	1. Humidity resistance: No formation of blisters to extent greater than "Few" blisters size #* as shown in Fig. 4 of ASTM D 714. 2. Salt spray resistance: Minimum rating of 7 on scribe or cut edges, and a minimum blister rating of 8 within the test specimen field in accordance with Table 1 & 2 of AAMA 2605 an
11	Weathering resistance	ASTM C 481 (Cycle A)	<ul style="list-style-type: none"> <li>• shear strength no effects when test as per ASTM C 273</li> <li>• film adhesion no effects when test as per AAMA 2605 (Clause 7.4)</li> <li>• Impact resistance no effects when test as per AAMA 2605 (Clause 7.5)</li> </ul>
12	Temperature for thermal deformation	ASTM D 648	≥100 ° C
13	Thermal conductivity	ASTM C 518	Declare value

14	Linear thermal expansion coefficient	ASTM D696	2.4 mm/m/c <sup>0</sup>
15	Reaction to fire classification	UAE fire safety code	Approval from DCD

## 8 Tests conducted

The following tests were conducted on the product and showed satisfactory results.

- Thickness of panels, Weight of panels ,Coating thickness ,Abrasion resistance , Pencil hardness ,Peel off test ,Impact resistance ,Film adhesion ,Shear strength ,Humidity resistance ,Salt spray resistance ,Weathering resistance ,Temperature for thermal deformation ,Thermal conductivity , Reaction to fire (as per DCD approval)

## 9 Identification/Labeling/Marking

Each product item as well as the packing containers shall be identified / labeled / marked to show the required basic information (manufacturer name , the product name ,the DCL Technical Approval mark) in Arabic and/or English language.



## 10 Production quality control

The products shall be manufactured under an approved quality control program as shown in the internal quality inspection and testing plan . The quality control program shall verify continued compliance with requirements shown in Table 1.

## 11 Conditions of Approval

- 11.1 This approval is granted only to “*Emirates Panel Manufacture LLC*” No other company, firm or person may hold or claim any entitlement to this Technical Approval.
- 11.2 This Technical Approval will remain valid for the period shown on the Approval Certificate provided that.
- The company complies with the requirements of this Technical Approval,
  - The characteristics of the products are unchanged,
  - Continue to be checked by DM as per surveillance scheme mentioned hereinafter in this report.
- 11.3 In granting this Technical Approval, Dubai Municipality makes no representation to:
- The presence or absence of patent or similar rights subsisting in *Emirates Panel-A2* , *Panbond-A2* and *Corebond-A2*.
  - The legal right of “*Emirates Panel Manufacture LLC*” to market the brands as shown in the scope, in the Emirate of Dubai.
- 11.4 The Technical Approval shall not be used in such manner as to bring Dubai Municipality into disrepute and “*Emirates Panel Manufacture LLC*” shall not make any statement which Dubai Municipality may consider as misleading.
- 11.5 Surveillance
- Inspection and testing  
Dubai Municipality maintains the right to inspect the factory and products at any time without prior notice and to collect samples from the products available at the client’s factory, warehouses or at any building site within Dubai Emirate, for the purpose of verification and/or testing.
  - Complaints  
“*Emirates Panel Manufacture LLC*” shall provide Dubai Central Laboratory (DCL) in writing with details of all records of complaints received whenever requested by DCL and shall keep records of such complaints for examination by Dubai Central Laboratory personnel.
  - Cost of sampling and testing  
“*Emirates Panel Manufacture LLC*” shall bear the cost of sampling and testing of the products either at Dubai Central Laboratory (DCL) or at any other DCL approved

laboratory. The testing laboratory may be any local, regional or international laboratory.

- 11.6 Failing to satisfy the conditions of this Technical Approval Certificate may be grounds for terminating the Technical Approval.

## 12 Disclaimer

- 12.1 The Dubai Municipality - Dubai Central Laboratory Department shall not be held liable for installation the product in the site.
- 12.2 The Dubai Municipality - Dubai Central Laboratory Department shall not be held liable for any action (legal or otherwise) raised by any party on matters resulting from implementation of the Technical Approval.