



**EMIRATES PANEL
MANUFACTURE LLC**



EMIRATES PANEL MANUFACTURE LLC

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New Industrial Area 1, U.A.Q - U.A.E.
info@epm-uae.com www.epm-uae.com
EmiratesPanelManufacture emiratespanelm



COMPANY PROFILE



EPM PANELS AND THE ENVIRONMENT

EPM operates in strict compliance with all Environmental Legislation applicable to our industry and holds all relevant certifications for our products. EPM composite panels can be fully recycled.

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Company Profile

Introduction

Emirates Panel Manufacture LLC (hereafter referred to as EPM) is a long standing and respected manufacturer, specializing in various grades of Aluminium Composite Panels, Polycarbonate Solid Sheets and Sun Sheets, certified with ISO 9001 :2015 certification for complying with the International Quality Standards and performing Quality Management System, designed to ensure that all products and services provided by EPM comply, as a minimum, with the specifications of our clients.

Having had a prominent presence in the UAE since the company's establishment back in 2017, our commitment to continued innovation, high quality standards and excellence in service has resulted in long term, mutually beneficial relationships with our ever-growing database of customers and suppliers alike.

With an industrial presence in countries spanning across the Middle East, Europe, Asia and Africa, EPM has a balanced geographic diversity within all the key composite and polycarbonate markets, both in developing and developed countries.

Through this association, EPM has an access to world-class research and development, best practice processes, aggressive procurement contracts and international market leverage to ensure the company remains at the cutting edge of the international composite and polycarbonate industries.





Vision:

To add value to all our stakeholders through our market leadership position in the UAE by manufacturing quality material products safely, being an employer and supplier of choice, while striving to be among one of the lowest-cost composite and polycarbonate manufacturers in the world.

Mission:

EPM will build on this vision as being an industry leader in quality, safety, ethics and education by:

- Creating long-term relationships with our customers by consistently exceeding their expectations
- Educating our workforce enabling them to complete their work tasks in the highest quality manner utilizing proven state-of-the-art technology
- Being a fair employer as well as a career and skills developer
- Producing innovative high-quality materials for our customers on time
- Strategically expanding our operations while realizing long-term profitability

Certificate

CERTIFICATE

This is to Certify that the Environment Management System of

EMIRATES PANEL MANUFACTURE LLC.
P.O.Box No. 3998,
New Industrial Area 1, Umm Al Quwain, UAE.

Has been independently assessed and is compliant with the requirements of

ISO 14001 : 2015
(Environmental Management Systems)

This Certificate is applicable to the following product or services ranges:

Aluminium Composite Panel Manufacturing, Aluminium Coil Coating and Fire Resistance Material Manufacturing.

CERTIFICATE NO: AE 10000228/02/E

Date of this Certificate 11 MAR 2022 Date of Initial Registration 10 MAR 2019
Date of Certificate Expiry 10 MAR 2023 Re-certification Due 10 MAR 2025

This Certificate is property of GRS Certification and remains valid Subject to satisfactory surveillance audits.

Director

GATE WAY REGISTRAR CERTIFICATIONS
Visit: www.grsnet.com
Accredited by International Services For Certification bodies (ISIRI) UK LTD
6 Ferns Place Bourneham, Dorset, BH9 0DL, United Kingdom

CERTIFICATE

This is to Certify that the Occupational Health & Safety Management System of

EMIRATES PANEL MANUFACTURE LLC.
P.O.Box No. 3998,
New Industrial Area 1, Umm Al Quwain, UAE.

Has been independently assessed and is compliant with the requirements of

ISO 45001 : 2018
(Occupational Health & Safety Management Systems)

This Certificate is applicable to the following product or services ranges:

Aluminium Composite Panel Manufacturing, Aluminium Coil Coating and Fire Resistance Material Manufacturing.

CERTIFICATE NO: AE 10000228/03/H

Date of this Certificate 11 MAR 2022 Date of Initial Registration 10 MAR 2019
Date of Certificate Expiry 10 MAR 2023 Re-certification Due 10 MAR 2025

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Director

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CERTIFICATE

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EMIRATES PANEL MANUFACTURE LLC.
P.O.Box No. 3998,
New Industrial Area 1, Umm Al Quwain, UAE.

Has been independently assessed and is compliant with the requirements of

ISO 9001:2015
(Quality Management Systems)

This Certificate is applicable to the following product or services ranges:

Aluminium Composite Panel Manufacturing, Aluminium Coil Coating and Fire Resistance Material Manufacturing.

CERTIFICATE NO: AE 10000228/01/Q

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THOMAS BELL WRIGHT INTERNATIONAL CONSULTANTS
In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

Emirates Panel Manufacture L.L.C
Jct. 26, Mile 17, New Industrial Area 1,
P.O. Box 3998, Umm Al Quwain, United Arab Emirates

for
"Emirates Panel - A2"
4 mm Thick Aluminium Composite Material
Near-Leading-Edge Exterior Wall Cladding System
First Method: NPPA 285-2013 Edition
(System Designation: A220M14-0)

which, subject to limitations described on the following pages and continued being in force, is hereby certified, compliance with Product Certification Scheme 2003 Exterior Wall Assembly, Cladding, Curtain Walls, Building Elements, Products and Accessories.

In witness whereof, this Certificate is issued this 17th day of May 2021.

Sandy Davis
Chief Executive Officer

Nicola Purcell
Director of Certification

Certificate Number: 1900000001
Issue Date: 15, 2021 Expiry Date: 15, 2023

THOMAS BELL WRIGHT INTERNATIONAL CONSULTANTS
In accordance with UKAS accreditation to ISO 17065
Certification is Hereby Granted

Emirates Panel Manufacture L.L.C
Jct. 26, Mile 17, New Industrial Area 1,
P.O. Box 3998, Umm Al Quwain, United Arab Emirates

for
"CORONDOR-FR"
4 mm Thick Aluminium Composite Material
Exterior Wall Cladding System
First Method: NPPA 285-2013 Edition
(System Designation: A220M14-0)

which, subject to limitations described on the following pages and continued being in force, is hereby certified, compliance with Product Certification Scheme 2003 Exterior Wall Assembly, Cladding, Curtain Walls, Building Elements, Products and Accessories.

In witness whereof, this Certificate is issued this 14th day of February 2022.

Sandy Davis
Chief Executive Officer

Nicola Purcell
Director of Certification

Certificate Number: 1900000002
Issue Date: 15, 2021 Expiry Date: 15, 2023

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Emirates Panel Manufacture L.L.C
Jct. 26, Mile 17, New Industrial Area 1,
P.O. Box 3998, Umm Al Quwain, United Arab Emirates

for
"Emirates Panel-FR"
4 mm Thick Aluminium Composite Material
Exterior Wall Cladding System
First Method: NPPA 285-2013 Edition
(System Designation: A220M14-0)

which, subject to limitations described on the following pages and continued being in force, is hereby certified, compliance with Product Certification Scheme 2003 Exterior Wall Assembly, Cladding, Curtain Walls, Building Elements, Products and Accessories.

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Certification is Hereby Granted

Emirates Panel Manufacture L.L.C
Jct. 26, Mile 17, New Industrial Area 1,
P.O. Box 3998, Umm Al Quwain, United Arab Emirates

for
"Emirates Panel - A2"
4 mm Thick Aluminium Composite Material
(NPPA 285-2013-02 and BS EN 13953-1:2007+A2:2010)

which, subject to limitations described on the following pages and continued being in force, is hereby certified, compliance with Product Certification Scheme 2003 Exterior Wall Assembly, Cladding, Curtain Walls, Building Elements, Products and Accessories.

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Emirates Panel Manufacture L.L.C
Jct. 26, Mile 17, New Industrial Area 1,
P.O. Box 3998, Umm Al Quwain, United Arab Emirates

for
"Emirates Panel-FR"
4 mm Thick Aluminium Composite Material
Exterior Wall Cladding System
First Method: NPPA 285-2013 Edition
(System Designation: A220M14-0)

which, subject to limitations described on the following pages and continued being in force, is hereby certified, compliance with Product Certification Scheme 2003 Exterior Wall Assembly, Cladding, Curtain Walls, Building Elements, Products and Accessories.

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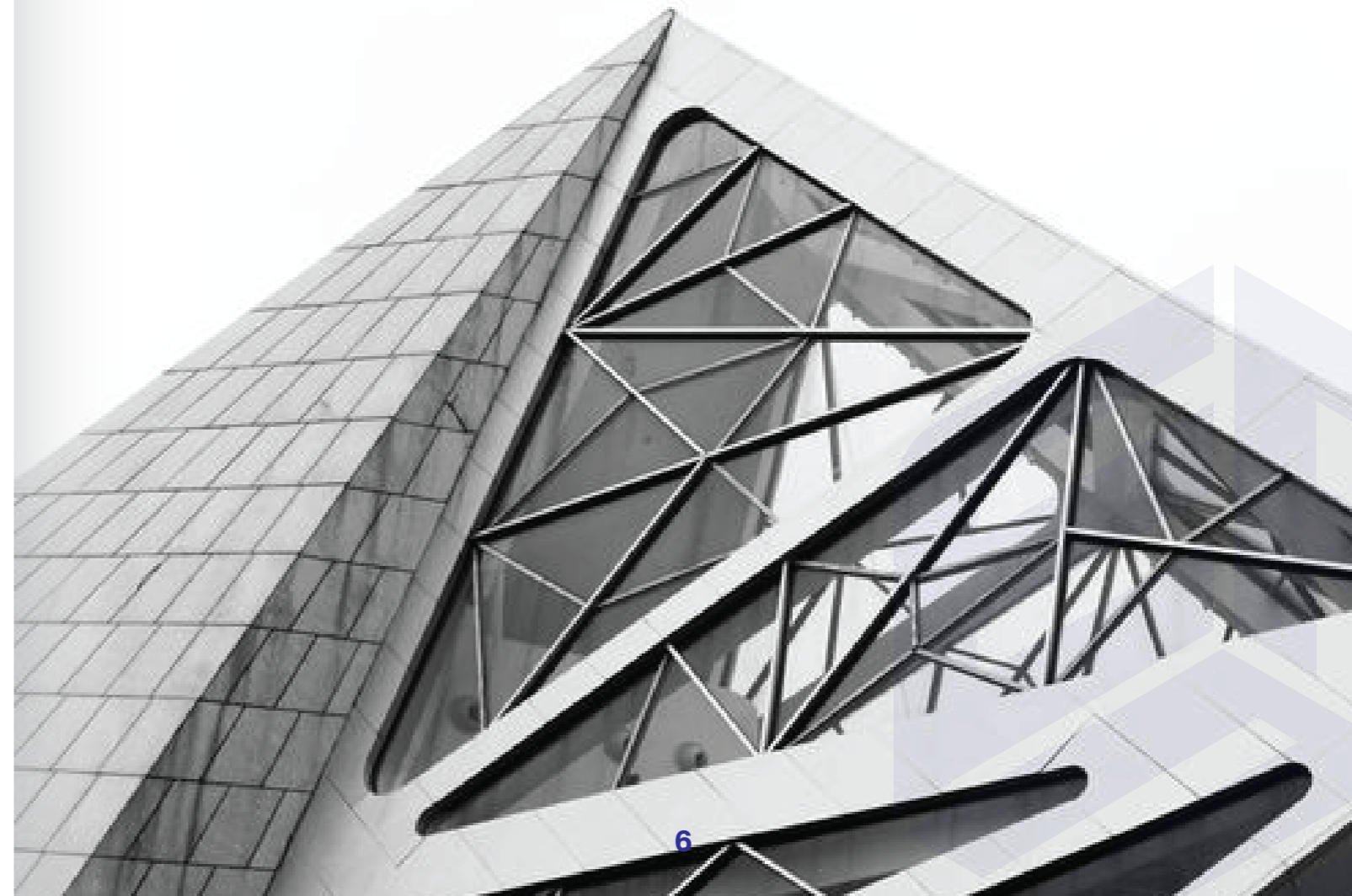
PRODUCTS

Aluminum Composite Panels

- Cladding
- Kitchen Cabinet
- Signage

Coated Coil

- Cladding
- Coated Coil Roofing



Aluminum Composite Panels

Cladding

Kitchen Cabinet

Signage

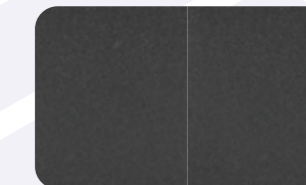
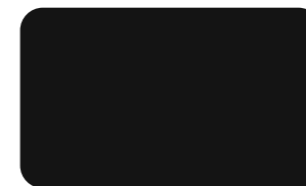
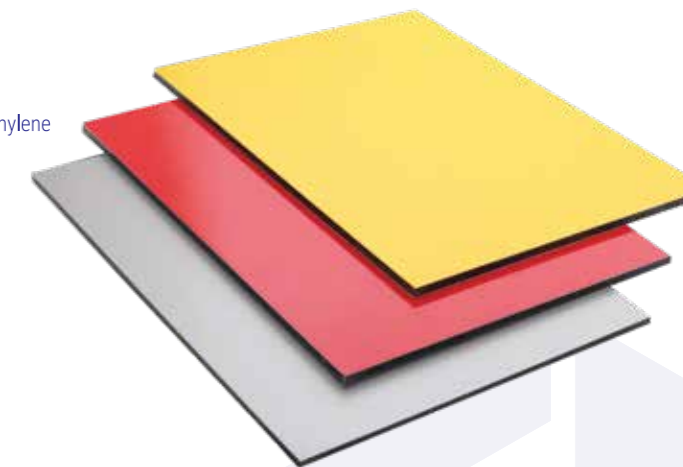
Aluminum Composite Panels Cladding

Cladding NON FR

EPM's Non-Fire Retardant ACP core is made up of 100% LDPE, Low-density polyethylene (Linear or Recycled) which is a plastic based core, a petroleum by-product and of course 100% combustible and contribute to increase the intensity of fire propagation when they burn and changes a small fire to a big disaster.

Specification

Width	1000mm, 1250mm, 1500mm, and up to 1590mm
Available Panel Thickness	3mm, 4mm, 5mm, 6mm
Available Skin Thickness	0.5mm, 0.4mm, 0.3mm
Available Length	2440mm, 3200mm, 3600mm, and upto 6000mm
Weight	3mm=4.5kg/m ² : 4mm=5.5kg/m ² : 6mm=7.3kg/m ² (Polyethylene Core) 3mm=5.8kg/m ² : 4mm=7.6kg/m ² : 6mm=10kg/m ² (Modified Mineral Core)
Coating	Kynar 500 FSF PVDF Metallic and Solid & Polyester Matte and High Gloss
Exterior Face of Bottom Skin	PE
Core	Polyethylene, Type LDPE
Fire Retardant Core	Modified Mineral & Linear Low Density Polyethylene
Colours	Standard RAL Colours or Custom Colours
Special Colours	As per Request
Customized Requirement	Available



Cladding FR B1

EPM's FR-B1 is composed of a modified mineral-based core which consists of non-combustible mineral (Magnesium Hydroxide) and small quantity of low-density polyethylene with a composition of 73% of mineral plus 25% of LDPE and 2% of other additives sandwiched in two aluminum skins.

Fire resistant-meets the B1 standard and is fire retardant stratified, smoke less and no harmful gas.

High strength-ensure the performance of wind-pressure resistance, shockproof, and impact resistance.

Smooth Surface- superior and smooth surface, satisfying the modern building with perfect appearance.

Easy Processing-easy to cut, slot, punch, bend into circular, rectangular and other shapes and also can be designed to various modeling according to your ideas.

Exertion Design- series of gloss and shape to meet the designer's great originality, achieve perfect results.



Specification

Width	1000mm, 1250mm, 1500mm, and up to 1590mm
Available Panel Thickness	3mm, 4mm, 5mm, 6mm
Available Skin Thickness	0.5mm, 0.4mm, 0.3mm
Available Length	2440mm, 3200mm, 3600mm, and upto 6000mm
Weight	3mm=4.5kg/m ² : 4mm=5.5kg/m ² : 6mm=7.3kg/m ² (Polyethylene Core) 3mm=5.8kg/m ² : 4mm=7.6kg/m ² : 6mm=10kg/m ² (Modified Mineral Core)
Coating	Kynar 500 FSF PVDF Metallic and Solid & Polyester Matte and High Gloss

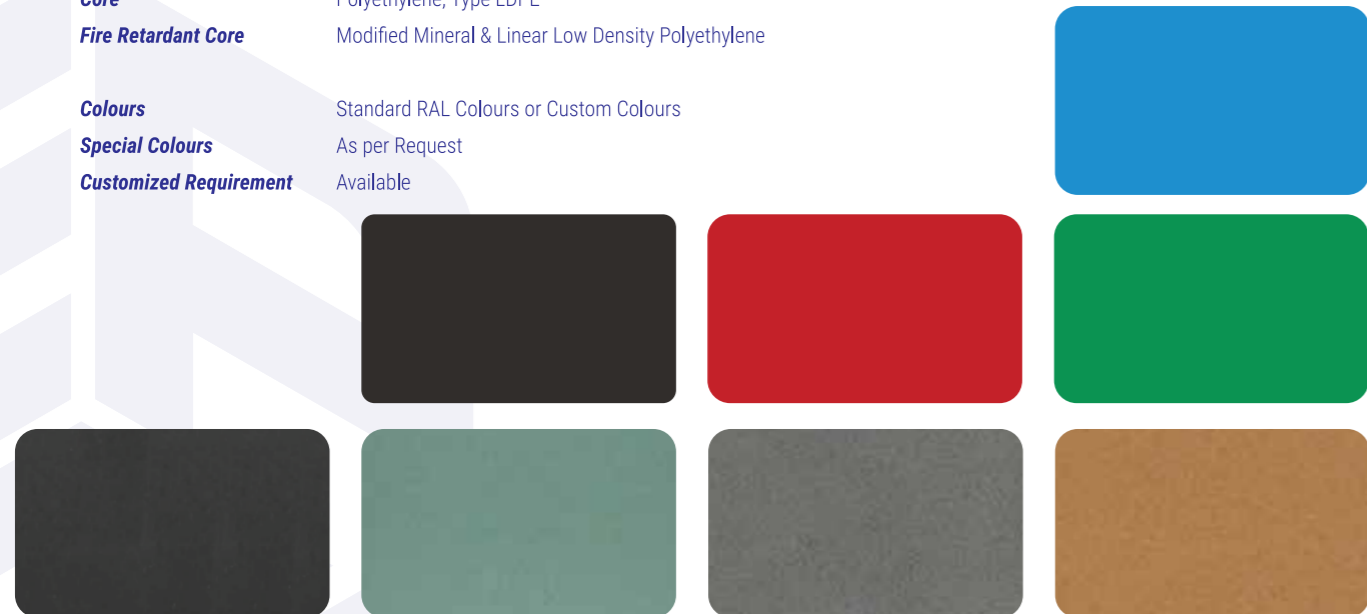
Exterior Face of Bottom Skin PE

Core Polyethylene, Type LDPE
Fire Retardant Core Modified Mineral & Linear Low Density Polyethylene

Colours Standard RAL Colours or Custom Colours

Special Colours As per Request

Customized Requirement Available



Cladding FR A2

EPM's A2 Fire-Retardant ACP core consists of well-balanced combination of combustible (LDPE) and non-combustible (Mg(OH)₂) in the core, will prove resistance to fire thereby delaying combustion, and declining further spread. Where an A2 SCP core should be 90% of non-combustible proportion with 10% balanced mix of LDPE and other supplements.

Specification

Width	1000mm, 1250mm, 1500mm, and up to 1590mm
Available Panel Thickness	3mm, 4mm, 5mm, 6mm
Available Skin Thickness	0.5mm, 0.4mm, 0.3mm
Available Length	2440mm, 3200mm, 3600mm, and upto 6000mm
Weight	3mm=4.5kg/m ² : 4mm=5.5kg/m ² : 6mm=7.3kg/m ² (Polyethylene Core) 3mm=5.8kg/m ² : 4mm=7.6kg/m ² : 6mm=10kg/m ² (Modified Mineral Core)
Coating	Kynar 500 FSF PVDF Metallic and Solid & Polyester Matte and High Gloss
Exterior Face of Bottom Skin	PE
Core	Polyethylene, Type LDPE
Fire Retardant Core	Modified Mineral & Linear Low Density Polyethylene
Colours	Standard RAL Colours or Custom Colours
Special Colours	As per Request
Customized Requirement	Available



intertek
Total Quality Assured.



This is a certificate of compliance to verify that the member has successfully completed the requirements of the above scheme which include the testing of products, the initial assessment, and are subject to continuing annual assessments of their facilities and testing of samples of products taken from production (as applicable to the scheme) and has been registered under the scheme for the product(s) shown.

Certificate of Compliance

You have been awarded:
Intertek ETL US Mark and WH Service Mark 2014 for Building Panels
Standards: NFPA 285 (2013), BS EN 13501-1 (2009), ASTM D1809 (2016)
 Certificate number: WH119 - 30481003

Organization: Emirates Panel Manufacture LLC
 P.O. Box 430961
 Block 17, Sector 10, New Industrial Area
 Umm Al Quwain, N/A
 United Arab Emirates

Product: Emirates Panel Manufacture LLC - COREBOND-A2 ACP
 Spec #: 0021
 Listing Information: See following page(s)

Aluminum Composite Panels Kitchen Cabinet

ACP or Aluminium Composite Panels can revamp the look and feel of any Modular kitchen .

ACPs have unmatched flexibility and flatness that would be ideal for cladding cabinets with an innovative shape . Guaranteeing zero crack risks it is moisture, fungi, borer and termite resistant.

Being light in weight, ACP sheets can also be used to clad gravity-defying cabinets.ACPs are the perfect choice to be used in and around the kitchen. Cabinets clad with ACPs are safe and nontoxic options to be used in the kitchen while they also promote environmental sustainability. ACPs are the perfect choice to be used in and around the kitchen. Cabinets clad with ACPs are safe and nontoxic options to be used in the kitchen while they also promote environmental sustainability.

ACP clad cabinets are widely being used in industrial kitchens as they are extremely easy to clean and maintain.



Specifications

Panel	Measurements
Length	2440mm, 3200mm, 3600mm, upto 6000mm
width	1000mm, 1220mm, 1250mm, 1300mm
Panel Thickness	1.8mm, 2mm, 2.2mm, 2.8mm, 3mm ,4mm
Aluminum Skin Thickness	0.08mm, 0.12mm ,0.15mm ,0.18mm ,0.2mm



- ◆ Metallic Color
- ◆ Silver Stripe
- ◆ Bark Finish
- ◆ Raised Grain
- ◆ Small Lotus Series
- ◆ Pattern Series
- ◆ Stone Finish
- ◆ Wooden Finish
- ◆ New Products

Aluminum Composite Panels Signage

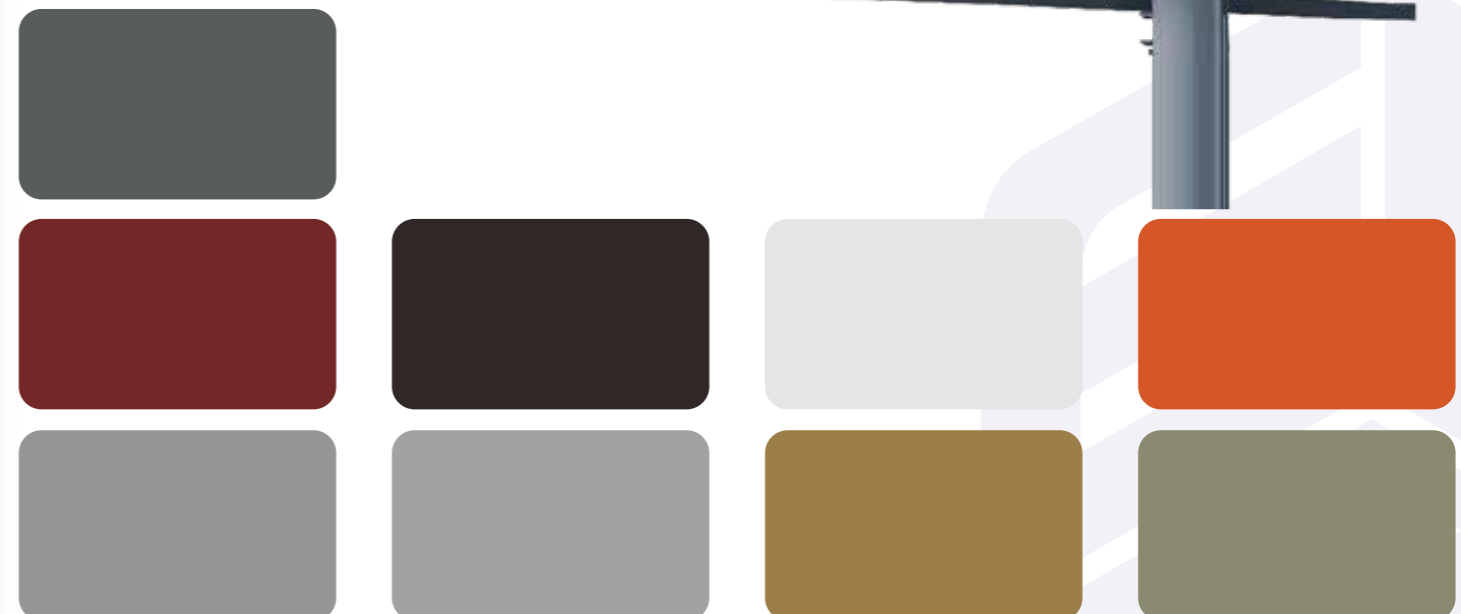


Signage is the design or use of signs and symbols to communicate a message. A signage also means signs collectively or being considered as a group. The term signage is documented to have been popularized in 1975 to 1980. Signs are any kind of visual graphics created to display information to a particular audience. This is typically manifested in the form of wayfinding information in places such as streets or on the inside and outside buildings. Signs vary in form and size based on location and intent, from more expansive banners, billboards, and murals, to smaller street signs, street name signs, sandwich boards and lawn signs. Newer signs may also use digital or electronic displays. The main purpose of signs is to communicate, to convey information designed to assist the receiver with decision-making based on the information provided. Alternatively, promotional signage may be designed to persuade receivers of the merits of a given product or service. Signage is distinct from labeling, which conveys information about a particular product or service.

EPM'S signage series products are aluminum composite material comprised of two pre-painted panels bonded to a solid polyethylene core. They are lighter in weight and more durable than both MDO and solid aluminum panels, the finish is ready for vinyl, screen print inks, paint, cutting or routing.

Specifications

Panel	Measurements
Length	2440mm, 3200mm, 3600mm, upto 6000mm
width	1000mm, 1220mm, 1250mm, 1300mm
Panel Thickness	1.8mm, 2mm, 2.2mm, 2.8mm, 3mm ,4mm
Aluminum Skin Thickness	0.08mm, 0.12mm ,0.15mm ,0.18mm ,0.2mm



Coated Coil

Cladding

Coated Coil Roofing

Coated Coil Coated Coil ACP

Coil coatings are factory applied specialized coatings on flat metal coils of steel or aluminium in continuous painting lines.

The paints are designed to withstand high shear and speed of painting line to give excellent metal finishing in various colours. The coating lines are sophisticated operations and involve close interaction to give an optimum product.

EPM emphasizes the partnership model with ACP manufacturers to deliver world class products and services to ensure sustainable and mutual growth.

ULTRANAR Coil Coating System



Designed for harshest environments

Ultramar coatings are premium Fluoropolymer coatings based on patented Kynar500® FSF® PVDF resin with proven performance in harshest of environmental conditions. They provide outstanding resistance to Ultraviolet rays, exceptional colour retention and resistance to chalking and chemical degradation.

Benefits

Ultramar coatings provide a number of unique benefits including:

- ◆ Outstanding resistance to sun, rain and other natural elements
- ◆ Superior chemical resistance
- ◆ Excellent dirt and stain resistance
- ◆ Excellent overall adhesion
- ◆ Great flexibility and formability
- ◆ Upto 30 years standard warranty for film integrity, colour and chalk
- ◆ Compliance to AAMA-2605 specifications

Colors

Ultramar coatings are available in a wide spectrum of popular industry colors, metallic, pearlescent and sparkle finishes

Substrates

- ◆ Aluminium

End uses

Ultramar coatings are ideal for long-life external use on premium commercial and residential buildings including:

- ◆ Metal roof panels
- ◆ Wall panels
- ◆ Stadium roofs and coastal buildings
- ◆ Green buildings.
- ◆ Industrial sheds of fertilizer, chemical and mining factories etc.
- ◆ Aluminium composite panels of premium buildings like Hotel, airports, monuments etc

ULTRAFLON Coil Coating System



Brilliant and Vivid Colours

Ultraflon coatings are premium Fluoropolymer coatings based on proprietary Lumiflon® FEVE resin allowing high durability in bright colours which are difficult in PVDF system. They can achieve high gloss levels upto 80 units and maintain consistently over service life.

Benefits

Ultraflon coatings provide a number of unique benefits including:

- ◆ Outstanding colour retention in bright colours
- ◆ Excellent dirt and stain resistance
- ◆ Excellent overall adhesion
- ◆ Great flexibility and formability
- ◆ 20 years standard warranty for film adhesion, colour and chalk

Colors

Ultraflon coatings are available in a wide spectrum of exotic colours, metallic, pearlescent and sparkle finishes.

Substrates

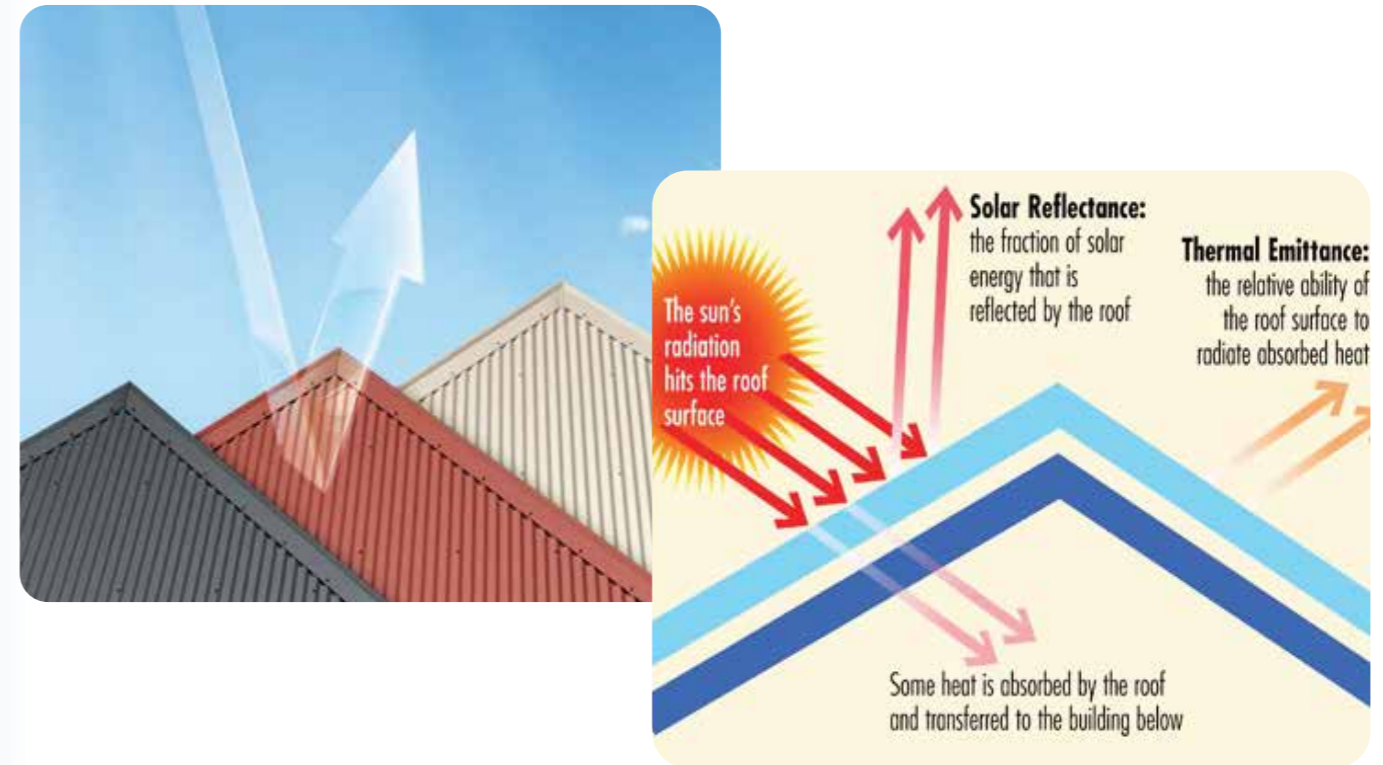
- ◆ Aluminium

End uses

Ultraflon coatings are ideal for long-life external use on premium commercial and residential buildings including

- ◆ Architectural and residential metal roofing system
- ◆ Wall panels
- ◆ Composite panels and column cover
- ◆ Restaurant establishments, brand retail outlets and gas stations
- ◆ Canopies, doors and other exterior metal panel systems

ULTRAREFLECT Coil Coating System



Designed to be cooler

UltraReflect coatings are specially designed with reflective and durable pigments in our proprietary superdurable/PVDF system to offer high solar reflectance and thermal emittance, thus meeting stringent SRI values as per LEED criteria for buildings. This allows substantial saving to building owners consistently over service life.

Benefits

UltraReflect coatings provide a number of unique benefits including:

- ◆ Outstanding colour retention in service life
- ◆ Excellent dirt and stain resistance
- ◆ Excellent overall adhesion
- ◆ Great flexibility and formability
- ◆ High total Solar reflectance
- ◆ Lower roof and wall temperatures

Colors

UltraReflect coatings are available in a wide spectrum of solid colours, metallic and pearlescent finishes

Substrates

- ◆ Galvalume/Zincalume/Alu-Zinc
- ◆ Aluminium

End uses

UltraReflect coatings are ideal for long-life external use on premium commercial and residential buildings including:

- ◆ Architectural and residential metal roofing system
- ◆ Wall panels
- ◆ Composite panels and column cover of premium commercial buildings
- ◆ Canopies, doors and other exterior metal panel systems.
- ◆ Shopping complex and Indoor stadiums
- ◆ Residential & Industrial metal building in high temperature areas

ULTRAGLITZ Coil Coating System



Designed to Impress

UltraGlitz coatings are specially designed with metallic/pearlscint/Glass flakes pigments to give special effects to coatings. This allows modern day architects to design façade for premium buildings in new way. These effects are assured with our durable resin system to keep building sparkling during service life.

Benefits

UltraGlitz coatings provide a number of unique benefits including:

- ◆ Outstanding colour retention in service life
- ◆ Excellent dirt and stain resistance
- ◆ Excellent overall adhesion
- ◆ Great flexibility and formability

Substrates

- ◆ Aluminium

End uses

UltraGlitz coatings are ideal for long-life external use on premium commercial and residential buildings including

- ◆ Wall panels
- ◆ Composite panels and column cover of premium commercial buildings
- ◆ Canopies, doors and other exterior metal panel systems
- ◆ Signature façade for entrance and unique design in a premium building

Colors

UltraGlitz coatings are available in a wide spectrum of special effects on various colour base.

ULTRAGUARD Coil Coating System



Designed to be hygienic in use

UltraGuard Anti microbial coatings are especially designed to maintain hygienic surface over service life where it is prime importance to avoid any bacterial growth. The performance is achieved through proprietary technology based on speciality additives to give high kill rate for E.Coli and Staphylococcus aureus bacteria on coating surface. The property is duly certified as per ISO 22196:2011 and test results as per JIS Z 2801: 2000.

Benefits

UltraGuard coatings provide a number of unique benefits including:

- ◆ Anti Microbial property
- ◆ Excellent overall adhesion
- ◆ Great flexibility and formability
- ◆ High kill rate for E.choli & Staphyaureous bacteria
- ◆ Clean appearance

Substrates

- ◆ Aluminium

End uses

UltraGuard coatings are ideal for use on premium commercial and residential buildings including

- ◆ Panels for food and dairy industry
- ◆ Wall panels for pharmaceutical industry
- ◆ Panels for school and hotel buildings

Colors

UltraGuard coatings are available in limited white and off white colours

ULTRAPRIM Coil Coating Primer System



Designed to protect

UltraPrim primer series are specially designed with different resins having good adhesion with metal substrate and offers excellent corrosion resistance when combined with suitable pigments. The design takes care of various topcoat chemistry and end application as per forming operations, environment and service life. We at spectrum truly believe that primer is very important layer for overall performance of coating system in natural environment and hence utmost care is taken in design and recommendation to coaters.



ULTRABACK Coil Coating Backer System



Designed to support

Backing coats in coil coating play important role as they are subjected to profiling operations and most importantly foaming to make sandwich panel used in roof and wall for insulation benefit. Our backer series Ultraback provides various options to coaters to decide suitable type of backer. We have tested our backers for foam adhesion and scratch resistance to ensure trouble free formation process.



Coated Coil Roofing

Coated Coil - Roofing

Coil coatings are factory applied specialized coatings on flat metal coils of steel or aluminium in continuous painting lines. The paints are designed to withstand high shear and speed of painting line to give excellent metal finishing in various colours. The coating lines are sophisticated operations and involve close interaction to give an optimum product. EPM emphasizes the partnership model with ACP manufacturers to deliver world class products and services to ensure sustainable and mutual growth.

ULTRASHELL Coil Coating System



Single coat polyester coatings

UltraShell coatings are polyester finishes designed for a wide variety of applications in roofing and cladding in normal environment. The key purpose is affordable coloured metal buildings. These can be directly applied on pre-treated substrate providing good adhesion during service life.

Substrates

- ◆ Aluminium

Benefits

UltraShell coatings provide a number of unique benefits including:

- ◆ Good resistance to sun, rain and other natural elements
- ◆ Good scratch resistance
- ◆ Good overall adhesion
- ◆ Good flexibility and formability

End uses

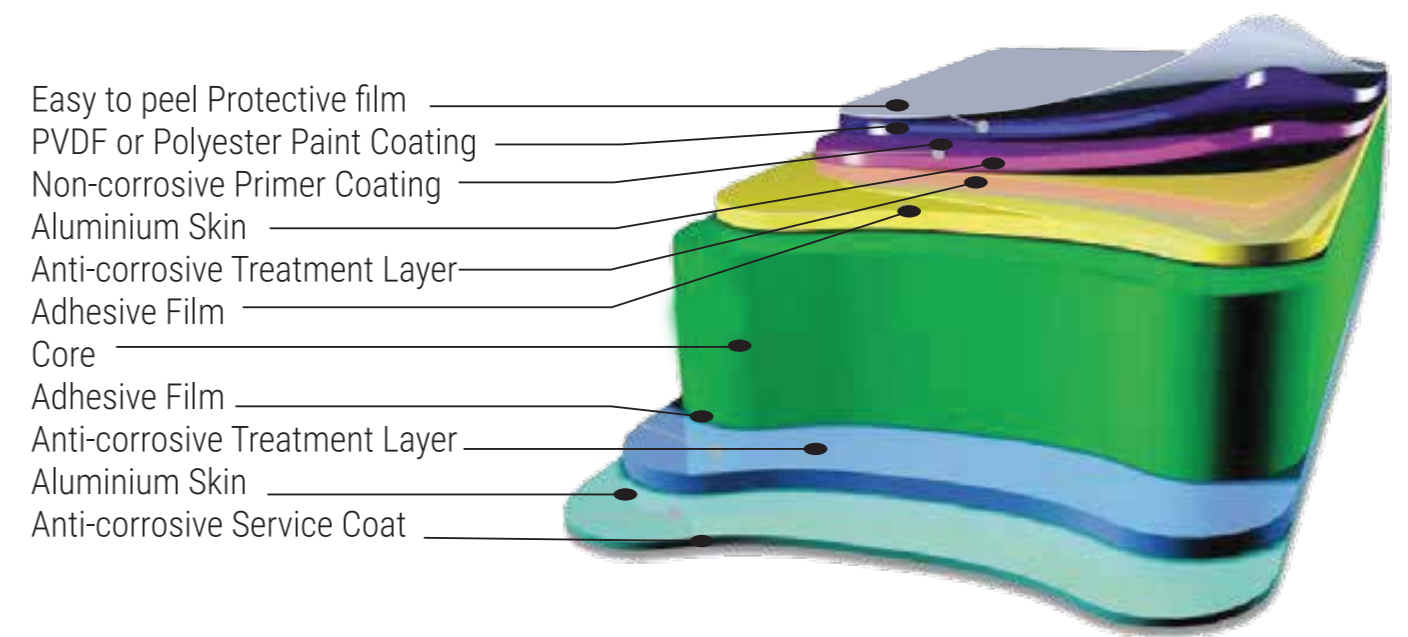
UltraShell coatings are ideal for average life external use on agricultural buildings, rural buildings and construction site coverings

- ◆ Residential metal siding and roofing systems
- ◆ Interior liner panels, doors and trim
- ◆ Other metal building components
- ◆ Fencing for under construction site

Colors

UltraShell coatings are available in a wide spectrum of popular industry colors

STRUCTURAL COMPOSITION



TECHNICAL SPECIFICATIONS

Physical Properties

Test Item	Test Value
Coating Thickness	>25µm
Pencil Hardness	3H
Gloss Tolerance	35.3
Adhesive Strength	Grade 1
Boiling Water Resistance	2 Hrs, no change
Abrasion Resistance	5.33L/µm
Thermal Expansion	23.1 x 10 ⁻⁶ /°C
Thermal Conductivity	0.030w/m.k
Heat Deflection Temperature	99.4°C
Thermal Deformation Temperature	≥90°C
Acoustic Insulation	27dB

Mechanical Properties

Test Item	Test Value
Impact Resistance	50 kg/cm. no cracking
Bending Strength	>121Mpa
Shearing Strength	32Mpa
Peel Strength	1.1kg/mm
Tensile Strength	49Mpa / N/mm ²
Flexural Modulus of Elasticity	3.12 x 10 ⁴ Mpa

Chemical Properties

Test Item	Test Value
Acid Resistance	No change
Alkaline Resistance	No change
Oil Resistance	No change
Solvent Resistance	No change
Resistance to Salt Spray	Grade 1
Fire Retardant Grades	B1 & A2

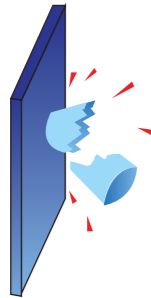
Standards:

USA: ASTM D903-98:2010, ASTM E84-15b, ASTM E119-16a, NFPA 285, ASTM D1929

Europe : EN 13501-1

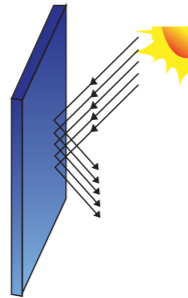
TECHNICAL SPECIFICATIONS

Greater Impact Resistance



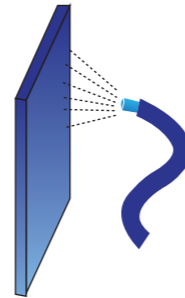
The core comprises a viscoelastic high molecular resin material preventing cracking or breaking, yet comes with exceptional high stiffness and impact resistance properties.

Weather Durability



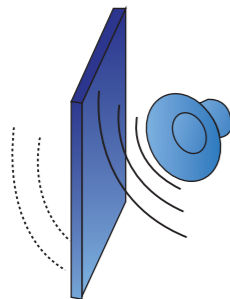
Panels are coated with Fluorocarbon (PVDF) resin that is able to withstand extreme weather conditions and minimizes the possibility of acid alkali and salt-spray corrosion. Unaffected by radical changes in temperature and long term exposure of ultraviolet rays, providing up to 25 years without signs of colour fading.

Easy to maintain and clean



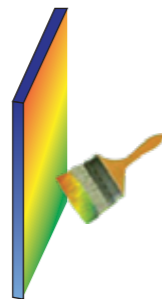
Having resilient coating properties, the panels perform well in extreme atmospheric conditions – polluted or not. It is however imperative panels are maintained in strict accordance with EPM's O&M cleaning guidelines and only neutral cleansers are applied to the surface.

Insulating and Sound Proofing



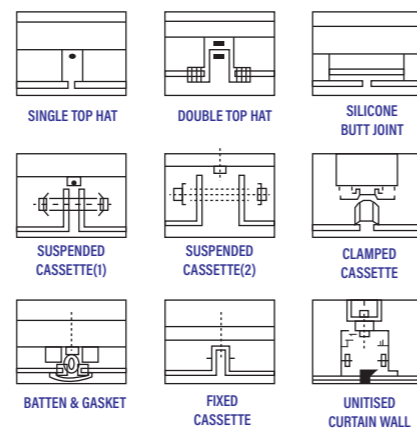
ACP maximizes the effect of insulation and sound proofing as the composition of the panel does not allow heat or sound to penetrate through the material due to its core, unlike steel, solid aluminium, tiles and other similar materials.

Smooth coating and Various color



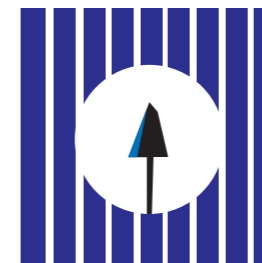
One of the most unique physical properties of ACP is that it is flat, smooth and has an even surface. Creating a building's aesthetic look and feel is achieved from EPM's various and distinctive colour range that can be customized to suit requirements.

Economical and Ease of Installation



EPM panels is an alternative cladding system offering respectable acoustic and U-value features at reduced costs compared to other facade solutions. Replacement costs are also more competitive considering the systems design.

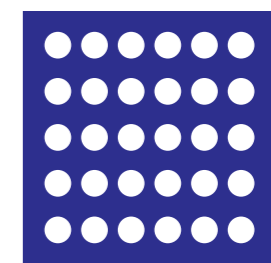
MECHANICAL & MANUAL PROCESSING



Slotting



Bending



Punching



Folding



Gluing



Riveting & Bolting



Sawing & Cutting



Drilling