

Prepainted metal

ECCA Groupe Français Newsletter

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E D I T O R I A L



Prepainted metal has numerous applications in construction and in recent years, thanks to its aesthetic and technical characteristics, has become a favourite among many architects and contracting authorities.

For too long the material was unjustly restricted to industrial and commercial buildings, but it has now carved out a place for itself in contemporary architecture. The multiple projects highlighting steel or aluminium cladding are

proof of its rise.

Designers now enjoy 2 major advantages:

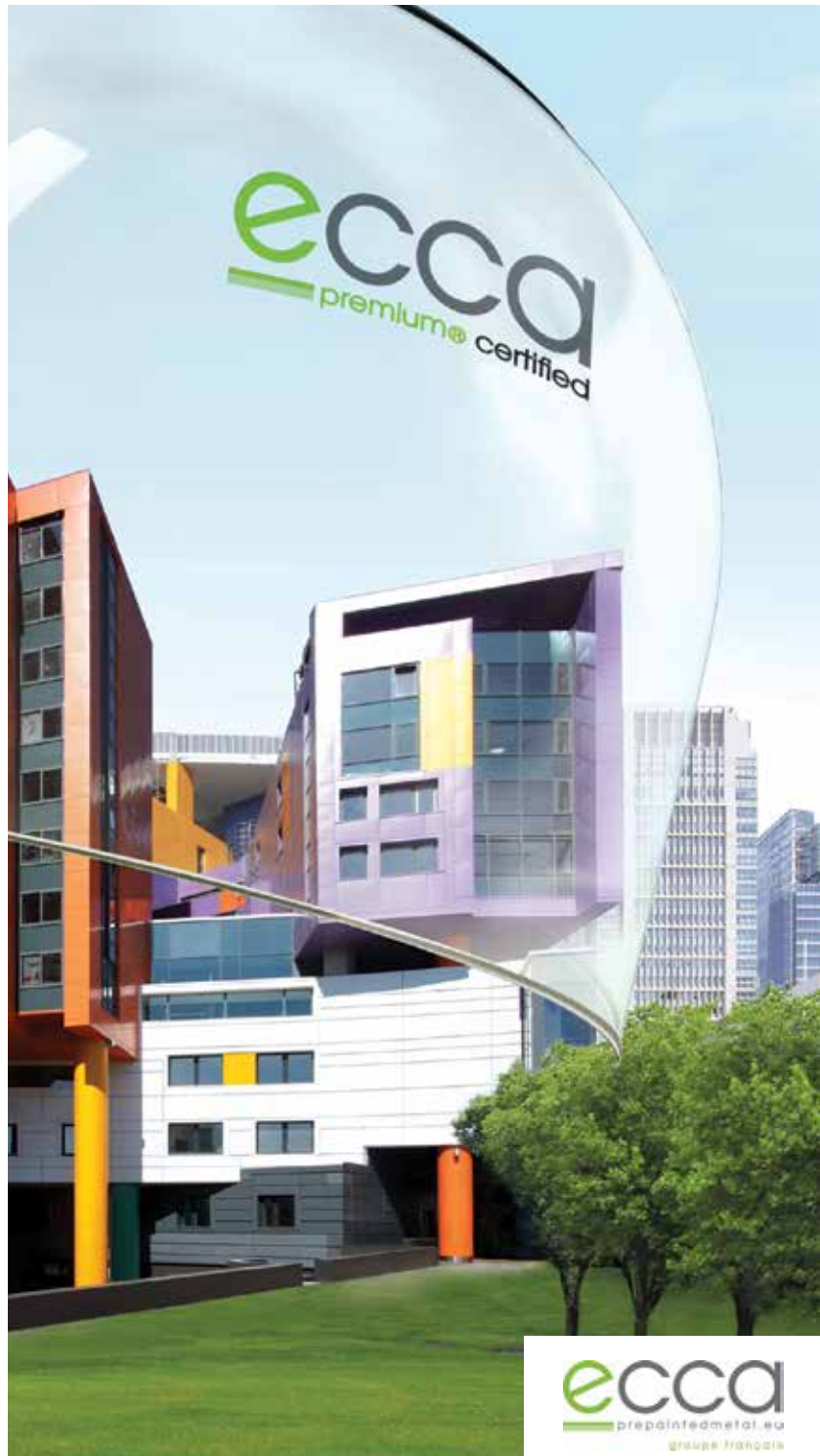
- Unique mechanical characteristics and capacity for transformation,
- The "ECCA Premium®" label which offers users the certainty of excellent product performance both in terms of quality and sustainability.

This label, representing real added-value for those who use coated aluminium and steel products, guarantees their optimal UV and corrosion resistance while opening horizons for architectural expression and design.

This major innovation is not a one-off development. Prepainted metal regularly undergoes revolutions. We decided to turn these pages over to four major figures so they can talk about placing innovation at the heart of their DNA.

Happy reading.

Mario PALERMO
President of ECCA Groupe Français



The ECCA Premium® label
protects your creations.



QUALITY
Coating that resists external stress.



SUSTAINABILITY
Respectful of environmental and social standards.



AESTHETICS
Freedom to choose shapes and colors.

ECCA Premium® is a label awarded by the European Coil Coating Association ECCA that ensures, using strict criteria, the quality, sustainability and aesthetics of prepainted metal products used in building applications.

Quality and sustainability for prepainted metal

ECCA has launched the ECCA PREMIUM® label, which offers users guarantees for products in terms of their quality and sustainability. It provides value and peace of mind to prepainted steel and aluminium users, guaranteeing UV resistance, optimal corrosion resistance and a product that is perfectly adapted to new design applications.

Why the new label?

Up until now, designers and customers could rely on the Qualicoat and Qualimarine labels. However in France and in Europe there has been a wave of newly arrived products that do not meet national and European standards for quality and sustainability. This competition is based on price and offers savings at the cost of quality, sustainability and respect for environmental standards.

ECCA Premium® label

The goal of the ECCA Premium® label is precisely to provide architects and clients with prepainted metal that is guaranteed in terms of quality and sustainability. It provides the assurance of:

- Prepainted metal that has been tested and approved by independent inspectors.
- Respected REACH regulations and exclusion of dangerous substance.
 - Substrates that meet European standards.

ECCA Premium® is based on European legislations and standards. The requirements cover four categories: product quality, product sustainability, manufacturing quality, manufacturing sustainability.

PRODUCT QUALITY	PRODUCT SUSTAINABILITY
<p>Product with minimum requested performance level according to EN 10169 (steel) and EN 1396 (aluminium)</p> <ul style="list-style-type: none"> • Substrate type (aluminium only) • Metallic coating thickness (steel only) • Organic coatings thickness and tolerances • Colour consistency and gloss tolerance • Adhesion and bendability • Corrosion, UV and fire resistance 	<p>Product does not intentionally contain any Substances of Very High Concern (SVHC) that are included in the Annex XIV of REACH.</p>
MANUFACTURING QUALITY	MANUFACTURING SUSTAINABILITY
<p>Manufacturer adopts duly accredited quality (ISO 9001) and safety (OSHAS 18001 or similar) management systems</p> <p>The manufacturer can ensure regular quality control for :</p> <ul style="list-style-type: none"> • Substrate type (aluminium only) • Metallic coating thickness (steel only) • Organic coatings thickness and tolerances • Colour consistency and gloss tolerance • Adhesion and bendability 	<p>The manufacturer adopts a certified environmental management system (ISO 14001 or EMAS)</p> <p>The manufacturer adopts a social responsibility policy (such as the UN Global Compact)</p> <p>The manufacturer is committed to following European legislation and respecting the limits set for resource consumption (energy and water), VOC emissions and waste production.</p>

How is the label awarded ?

This label is only awarded to manufacturers who have passed various inspections by independent bodies and have proven their capacity to manufacture products while respecting quality and sustainability standards.

Inspectors

Bureau Veritas (ES)
 CORI (BE)
 GLOBECERT (SE)
 TÜV Rheinland (DE)
 VINÇOTTE (BE)

That's a total of 14 licenced inspectors trained for ECCA Premium®

To learn more : www.eccapremium.com

The quality and composition of substrates

The type, quality and composition of aluminium alloys and their conformity with standard EN 1396 must be clearly demonstrated.

1) Aluminium is manufactured by a single group or a company sharing a quality control system that provides direct access to test results.

- The internal quality control procedure to ensure the quality of the aluminium substrate must be clearly demonstrated.
- The aluminium alloy used in ECCA Premium® products is listed in the EN 1396 standard, Table 2.

2) Aluminium coils are provided by an outside supplier.

- The quality and composition of the aluminium alloy used in products bearing the ECCA Premium® label must be proven by a supplier certificate in keeping with EN 10204, Type 3.1.
- The aluminium alloy in coils used in ECCA Premium® products will be indicated by the supplier according to standard EN 573-3.
- The aluminium alloy used in ECCA Premium® products is listed in the EN 1396 standard, Table 2.

3) Aluminium substrate thickness and thickness tolerances

- The aluminium substrate thickness is systematically measured and controlled. It must always remain within the tolerance limits set down in the EN 485-4 standard concerning nominal thickness.

Steel substrate performances

- The steel substrate must comply with the EN 10346 standard. A certificate (for an external steel coil supplier) or an internal document (for production within the company) proving the mechanical performance of the steel in compliance with the EN 10346 standard is required.

Metallic coating characteristics (zinc or zinc alloy)

- The metallic coating thickness must be measured using what is known as the triple spot test according to the EN 10346 standard, paragraphs 8.4 and 8.5.5.





The testimony of MIRALU

Our business: aluminium coil coating is part of the industry with a standardised process. End users are those in the construction industry who are looking for guaranteed results, in particular for ten-year guarantees. The intersection of these two worlds can be a source of problems.

Warranties go a long way in reassuring both sides. At the forefront in this field are discontinuous treatment manufacturers with the Qualicoat label. This label is so important in the market that often decision-makers include it as a requirement in calls for tender.

Coil coating arose out of the need to coat large quantities of products for use in industry and then in construction. The players, major industrial companies, didn't see any benefits to creating such a label.

ECCA, which represents a near majority of European manufacturers made clear the need for such a label to protect the market from poor quality production.

Miralu is a leader in thermosetting bendable powder aluminium coil coating. With our Mirawall and Mirabuild ranges, we want to show :

- a quality product and image: flexibility, bendability, ease of installation,
- manufacturing under safe conditions: non-chrome manufacturing for 10 years,
- respect for the environment by decreasing our ecological footprint: zero waste site.

Our company's process is recognised by the market and through management certifications (ISO 9001, ISO 14001, OHSAS 18001). However, technical recognition is not always enough. Architects, indeed the market, were calling for a product label as a guarantee of quality. Unlike other industrial processes, coil coating did not have its own industry standard.

In 2013 when the working group was formed, we committed on the condition that the processes and the products meet REACH standards. The difficulty in creating a label lies in dealing with a variety of issues, different sized companies, different types of products, different markets.

Miralu faced a two-fold challenge: to give powder coating a clear position, making clear that it is a niche without marginalising it. Among the steps towards this certification, we were QSE certified in 2013, a starting point for this label.

Today, the label is included in the company's excellence process. It is recognition of the quality of our product and the commitment of our suppliers. It meets the expectation of our customers who are seeking a certified product.

Certification includes two steps :

A pre-inspection goes over all the requirements.

The initial inspection was through an inspector sent by ECCA. The inspection was approved by ECCA's technical committee, which granted us the label.

In our market experience since then, we have noted that the ECCA Premium® label has helped us stand out from the competition in specific projects. The ECCA label, in a way the alter ego of the Qualicoat label, represents real added value for manufacturers like us, for product certification with a customer, or for prospective customers, too. The label is seen as a real advantage for coating manufacturers and for end users.

Today all projects, both national and international, demand more guarantees than ever before. For that reason, the ECCA Premium® label meets a real market need.



Innovation in prepainted metal

We let 4 major players speak for themselves

ALCOA

Alcoa Architectural Products in Merxheim, France, develops innovative products and coatings starting with the first double sheet aluminium panel Reynodual through the new collection MINERALS Design with concrete, lime, stone and slate design up to SUPRAAL, a specific coating for extremely severe conditions.

Alcoa Architectural Products works on extending the advantages of an aluminium facade with the special features of their products. The company makes aluminium products that stand out visually and ease environmental burdens – whether with the Eco-Clean™ self-cleaning surfaces that cleans the environment, material savings due to XXL formats, surfaces in wood or natural material design, additional coatings like Anti-Graffiti or Anti-Bacterial or structure effects. Then there is the fact that the optimized coil-coating process not only guarantees true colour for all products, but also increases their corrosion resistance and service life. The Reynobond® Architecture, Reynolux® Building and Reynodual® products are even ideal for use in back-ventilated facades and for projects that must meet certain environmental or fire safety requirements. Prepainted Aluminium Composite Panels are also inspiring in the interior sector with GRANDEZZA Interior a specific high gloss collection providing an attractive glass effect for kitchens or bathrooms uses.

As a member of the ECCA and certified according to ISO 14001, ISO 9001, OHSAS 18001 (Occupational Health and Safety Assessment Series) and now ISO 50001 (Energy Management System) the company adheres closely to the prescribed international standards.



Ken Sungjin Min, SKM ARCHITECTS | Eurabic | Alcoa Architectural Products
www.alcoa

ARCELOR MITTAL CONSTRUCTION

ArcelorMittal Construction is well-known among architects and project consultants for its coated steel systems and solutions for high added value cladding, roofing and flooring marketed under the name Arval®.

Developing new products, imagining new applications... Innovation is crucial for Arval by ArcelorMittal which bring all its expertise to bear for steel in all its forms.

What's New 2016:

- a range of insulated sandwich panels with the new PIR polyurethane, PRT-HEXACORE® recently developed by ArcelorMittal, and ACERMI-certified, as well as the new all-in-one Archisol® wall system for insulated, easy-to-install, beautiful facades. These panels can be combined with a new steel window framing for clad sandwich panels, a first in the market (co-developed with DEYA).
- "Eclectic" a new, asymmetrical wall cladding range to match architectural trends in a market led by external insulation.
- a new range of "white" shades in prepainted steel that gives the depth and relief that only white can offer, Irysa® Isatis and Irysa® Swan: iridescent semi-gloss with golden sparkling highlights for Isatis and blue tone highlights for Swan.
- a new range of mineral tones in the Edyxo® range: the multiple metallic and matte coats change the reflection and diffraction of light to create a look that is at once mineral and metallic: Galena, Distena, Beauvillon, Eliodore.



ArcelorMittal



Product Trapeza 7.96.54 /Hairultra Carrare - Architect: 2A Design

www.arcelormittal.com/arval ou
<http://ds.arcelormittal.com/construction/france/>

VALSPAR

Since 1806, VALSPAR is an international company with headquarters in Minneapolis and in 2015 it posted turnover of \$4.6B USD, \$500M of that in Coil Coatings, with a total of more than 10,000 employees around the world. Valspar offers a wide range of high performance coatings in top coats, primers and interior coatings. These high quality coatings come in a complete range of colours and textures and they stand up to the toughest environmental conditions.

No matter what part of the building you need to protect, Valspar has a solution to meet your unique needs. We are here to help you, together with your clients, create a long-lasting, beautiful building for a very long period. Valspar can provide the product and the trusted collaboration necessary to complete your architectural project. Valspar understands the key role that colour plays in architectural design, and we are experts in the field. You will always find the colour you are looking for to suit your project with Valspar.

Valspar's customer service, unmatched speedy delivery and attention to customer needs lets you quickly and successfully complete your project, ensuring that it is aesthetically beautiful, long-lasting and functional. With the "Valspar Green Agenda" we guarantee that our coatings are environmentally responsible. The programme focuses on eliminating dangerous materials, introducing "biorenewable" techniques that include recycled materials, reducing VOC emissions and decreasing energy consumption and waste production, all with an eye towards profitability.

CHEMETALL

Suppliers to all industrial sectors since 1927, Chemetall develops and produces surface treatment products and non-destructive testing and is renowned throughout the world for their work.

With its 2500 employees spread across 22 production sites (2 of them in France with 150 employees) and its 40 subsidiaries worldwide, Chemetall offers innovative products for all sectors (aerospace, automotive, construction).

The success of our R & D strategy is demonstrated by the more than 1200 patents that we currently hold in the field of surface treatment.

Our highest priority is environmental protection, implementing work safety guidelines and continuously improving safety at our production sites around the world.

For the prepainted metal market, Chemetall also proposes low-temperature and low-COD (chemical oxygen demand) degreasers, multi-metal non-chrome conversion coatings (Titanium, Silane, Zirconium base), pretreatment primer and Anti-fingerprint: non-chrome organic coatings.

The latest innovations to meet market expectations :

- Prepaint preparation and conversion coatings for Zinc Aluminium Magnesium alloys.
- Non-chrome passivation for pre-coated Zn and Al coil.
- Non-chrome prepaint multimetal conversion coating (steel, Zn-coated, Aluminium).

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Our motto is "If it matters, we are on it."

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www.chemetall.com

BIM

BIM stands for Building Information Modelling, a way to manage information from a construction.

BIM is not a tool or particular type of software, it is working methods and a 3D digital parametric model that integrates smart, structured data. These data are shared by all the parties involved in the design, construction and then throughout the life of a building or infrastructure.

ECCA members have signed on to this new construction process. Read more in our next issue, dedicated to BIM, where we will take an in-depth look at the processes involved.



BATIMAT

ECCA GROUPE FRANÇAIS AT THE 2015 BATIMAT TRADE FAIR

ECCA Groupe Français, with the backing of the European Association was one of the exhibitors in the trade fair. In a stand shared with ALCOA, ECCA was able to get the word out about its mission to promote prepainted metal, especially the ECCA PREMIUM® Label.

A lot of information was distributed, and visitors were able to learn about the advantages of this product; many showed a keen interest in this guarantee of the products' quality and performance.



MONTBRISON

ECCA GROUPE FRANÇAIS IN MONTBRISON

On 10 February ECCA Groupe Français held its Board of Directors meeting at Beckers Industrie in Montbrison, France. The Association's major member companies, ARCELORMITTAL CONSTRUCTION, ALCOA, NLMK, MIRALU, PPG, BASF, VALSPAR, HENKEL, CHEMETALL, NOVACEL, ARKEMA and BECKERS were all represented at the meeting. The rule stating that the board meetings be hosted by the association member who calls the meeting means that everyone learns more about the others' trade by visiting their site, and that's a good thing. It was a very productive morning of work and a number of topics, mostly focusing on promoting Coil Coating were discussed during the session.



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www.creativeroofing.eu

For more information

> Go to ECCA members: :

AKZO NOBEL - ALCOA - ARCELORMITTAL CONSTRUCTION FRANCE - ARCELORMITTAL DUDELANGE - ARKEMA - BECKERS - BASF - CHEMETALL - HENKEL - MIRALU - NLMK STRASBOURG - NOVACEL - PPG INDUSTRIE FRANCE - TATA STEEL MAUBEUGE - VALSPAR

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