Introduction to ecca
European Coil Coating Association

ECCA is the **Voice of the Coil Coating industry in Europe**, representing more than 100 companies, active in coil coating and the major suppliers to the industry.

- Founded in 1967
- Headquarters located in Brussels
- Association of corporate companies (≠ federation of national associations)
ECCA is dedicated to the promotion of the use of prepainted metal as the environmentally sound, the cost effective and the high quality method of finishing.

- 1,370 million m² and 219 kt paint (*)
- 81% Steel / 19% Aluminium(*)

(*) 2017 ECCA statistics
MISSION Objectives

- Increasing the awareness of prepainted metal through targeted marketing programmes
- Promoting the benefits of prepainted metal through the provision of innovative solutions and with particular emphasis on environmental, cost, quality and design benefits
- Stimulating market, application, product and process development
- Setting quality performance standards and developing test methods
- Granting of Quality and Sustainability Labels for prepainted metal on the basis of the technical and sustainability requirements defined in the ECCA Premium® Label manual and based on independent third party control
- Creating an industry network and forum for the development and exchange of ideas
- Representation of the Industry in its contacts with Public Officials, Public Authorities, other Trade Associations and Professional Bodies.
Why join ECCA?

- To gain exposure to the major players of the coil coating industry and networking opportunities with a wide variety of industry experts
- To have access to the latest technical developments and benefit from them
- To gain a benchmark with major players in order to improve your own operations
Why join ECCA?

- To get regular updates on European legislation and major issues faced by the sector

- To participate in working groups, shape the work of the Association and gain a competitive advantage
2018 ECCA membership

- **Coil Coaters**: 42
- **Paint suppliers**: 37
- **Other suppliers (*)**: 4
- **Stockists**: 3
- **Extraordinary (**)**: 88

(*) Pretreatment, Resins, Pigments, Equipment
(**) Research Institutes, other associations

**European**
- 14
**Non-European**
- 88
## ECCA membership – 2018

<table>
<thead>
<tr>
<th>Category</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Coil Coaters (Alucoil, ArcelorMittal, Arconic, Elval, Euramax, Hydro Aluminium, Novelis, Salzgitter, SSAB, TataSteel, ThyssenKrupp, US Steel ...)</td>
<td>37</td>
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<tr>
<td>European Stockists</td>
<td>3</td>
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<tr>
<td>European Paint Suppliers (Akzo Nobel, Axalta, Beckers, PPG, Valspar ...)</td>
<td>15</td>
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<tr>
<td>Other European Ordinary Members (Arkema, BASF (ex-Chemetall), Covestro, Henkel, ...)</td>
<td>30</td>
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<td>European Extraordinary Members</td>
<td>3</td>
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<td>Non-European Members</td>
<td>14</td>
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<tr>
<td>Total</td>
<td>102</td>
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ECCA Organisation

President: N. Brown, AkzoNobel
Vice-President: M. Reber, Metal Paint
Past President: V. van Offeren, TataSteel

Committees chairs
Envt & Sust. ESC : E. Brasseur, ArcelorMittal
Marketing: C. Bretton, ArcelorMittal
Technical: T. de Kok, Chemetall (BASF)

Managing Director : Y. Barcelona
Director Sustainability: T. Goodwin
Statistics & Projects : E. Hauchard
ECCA major activities

- Communication, Promotion, Education
- Statistics
- Standards and Tests methods development
- Environmental Benchmarking
- Legislation monitoring
- Technical projects
- Conferences
- Quality & Sustainability Label
Communication Promotion
Education

The ECCA Collection

www.creativebuilding.eu

- Collection of high quality buildings made of prepainted metal
- Primarily dedicated to Architects
A free resource to educate in coil coating
10 modules (9 with their own exam)

“The ECCA academy is an interesting and exciting way to learn more about coil coating. It has been a pleasure for me to work through the exams of the ECCA academy. It gives a very good overview of the coil coating process.”

Christian Vree, Surface Technology Engineer - Salzgitter Mannesmann Forschung GmbH
2017 ECCA Statistics
Prepainted metals

Total: 1 370 mio m² (5 651 kT):
81% steel / 19% aluminium
2017 ECCA Statistics - Paint systems

Top coats in 2017 (128 kT)

- Polyester: 70%
- PVDF: 14%
- Plastisol: 10%
- Polyurethane system: 3%
- Others: 3%
Substrates vs. coatings since 1992
(ECCA Statistics)
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<tbody>
<tr>
<td>kT</td>
<td>340</td>
<td>1204</td>
<td>1119</td>
<td>702</td>
<td>925</td>
<td>1254</td>
<td>866</td>
<td>682</td>
<td>725</td>
<td>623</td>
<td>731</td>
<td>919</td>
</tr>
</tbody>
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**OC STEEL – Imports into EU-28**

**China:** -29%

**Korea:** +17%

**India:** +43%

**Taiwan:** +22%

**Turkey:** +87%

Ktons

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**Korea:** +17%

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Standards & test methods development

Testing of product

Prepainted metals are widely used in different applications and environments (exterior and interior buildings, domestic appliances, furniture,...) and tested accordingly.

Over the years, a number of test methods have been developed to ensure that the material fits to the desired purpose. Most relevant European standards (EN) are based on test methods developed by ECCA and are available in all European National Standardisation Institutes.

Some EN standards specify test methods that deal with parameters like the thickness of paint layers (EN 13523-1) or the retention of gloss properties (EN 13523-2). Other EN standards deal with the mechanical properties such as bend tests (EN 13523-7) or test of pencil hardness (EN 13523-4). Another important test relates to the chalking of the prepainted surface (EN 13523-14).

In addition to the European Standards, some prepainted metal users e.g. appliance manufacturers, have established their own specific test methods dependent on the final use of the material. For example, some washing machines manufacturers are interested in resistance of the surface against alkaline solutions. Refrigerators are tested for resistance against foodstuff and beverages with aggressive properties, e.g. ketchup or vinegar.
Quality performance standards & European test standards

- **EN 1396:2015** Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications

- **EN 10169:2010** Continuously organic coated (coil coated) steel flat products – Technical delivery conditions

- **ECCA test methods** converted into European Standards series **EN 13523**
Environmental & Safety Benchmarking

2008
First ECCA Environmental Benchmarking & Safety survey
37 participating coil coating lines
First ECCA Sustainability Report
First benchmarking data

2014
Seventh ECCA Environmental & Safety Benchmarking survey
Fifth ECCA Sustainability Report

- Survey made every year
- Report issued every second year
Legislation monitoring

- Regular updates on European legislation and major issues faced by the sector
- For example:
  - Voice of the sector in current revision of the « Surface Treatment using Organic Solvents » BREF (*)
  - REACH
    - SVHC’s

(*) Best Available Techniques Reference Document
Technical projects – some examples

- Technical papers:
  - Storage Guidelines
  - Choosing the right prepainted metal product
  - Prepainted metal Roofing for Low Energy buildings
  - The basics of corrosion
  - Colour assessment of prepainted metal - ECCA guidelines

- Alternative to (acetic) Salt Spray test

- Low-energy coil coating
ECCA conferences (twice a year)

- Learning about the latest technical developments
- Ample networking opportunities with the representatives of the international Coil Coating Industry and their customers

Next conferences

- Brussels (BE), 19-20 November 2018
- Seville (ES), 22-24 May 2019
The ECCA Premium® label protects your creations.

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.

www.eccapremium.com
ECCA Premium® is a quality and sustainability label for prepainted metal products designed for outdoor applications.

Goals and objectives

- establish and grant quality and sustainability labels for prepainted metal products based on well-defined European standards
- ensure an appropriate use of the quality and sustainability trademark ECCA Premium®, an internationally registered trademark
- ensure that the criteria and procedures for granting the label are fair and harmonized in each country
- promote the use of European standards for prepainted metals: EN 1396 and EN 10169
Join ECCA and ...

- Gain exposure to the major players of the coil coating industry and networking opportunities with a wide variety of industry experts
- Access to the latest technical developments and benefit from them
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