

# REYNOLUX<sup>®</sup> COIL COATED ALUMINIUM

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# ABOUT ARCONIC ARCHITECTURAL PRODUCTS SAS

## A responsible leader in aluminium

With over 60 years of experience, Arconic Architectural Products SAS Merxheim (AAP Merxheim) is a leading European supplier of coil coated aluminium coils and sheets.

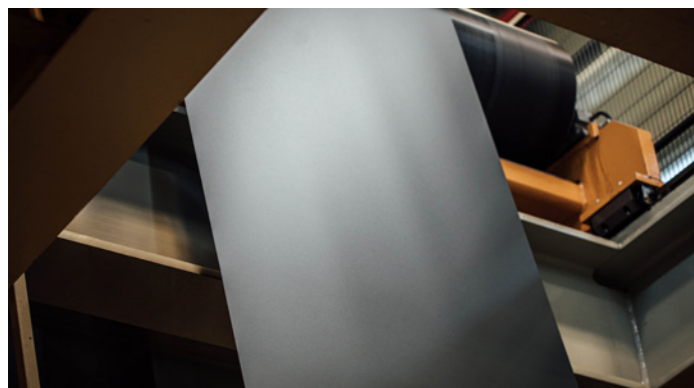
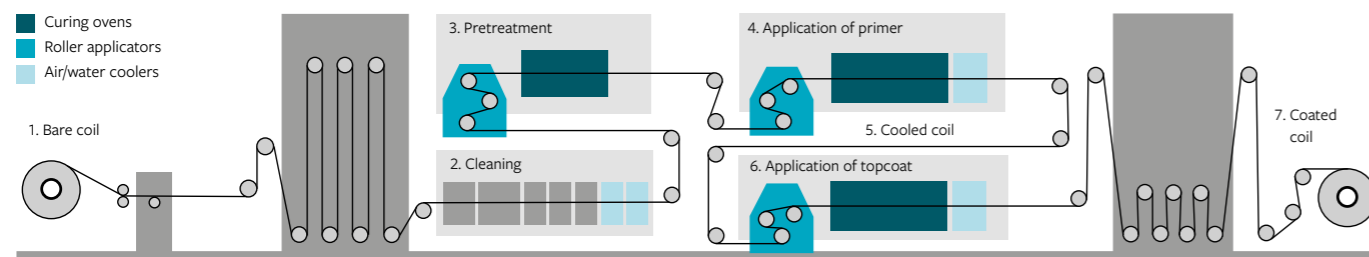
Coil coating is the most economical, efficient, high-quality and environmentally friendly method for coating large aluminium surfaces. This process allows the application of one or more paint layers, with uniform quality and without colour deviation in a batch of production.

Reynolux® pre-painted aluminium is coated with liquid paint in a continuous process at our Merxheim site in France. The product is 100% recyclable and is constantly being developed to improve composition, durability and performance.

CE



## Synoptic of a coil coating line

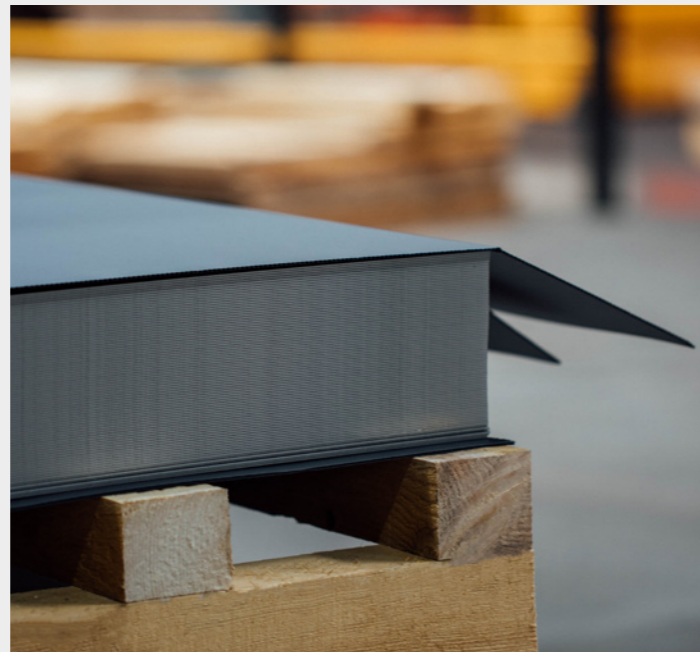


AAP Merxheim uses environmentally friendly materials and complies with the ISO 14001 environmental standard as well as the ISO 50001 energy management standard. These standards show our voluntary commitment to minimise our environmental impact from our waste as well as our use of resources including water and energy.

AAP Merxheim is certified to the ISO 9001 quality management standard. Reynolux® coil coated aluminium is marked CE according to EN 15088 under the CE number 0036-CPR-M-081-2014. AAP Merxheim is a member of the ECCA (European Coil Coating Association) and complies with NF EN 1396: "Aluminium and aluminium alloys - Coil coated sheet and strip for general applications - Specifications".

AAP Merxheim is certified to the ISO 45001 occupational health and safety standard and AAP is committed to operating worldwide in a safe and responsible manner, from our impact on the communities in which we operate to the health and safety of our employees and customers.

AAP Merxheim is part of the Arconic group, a leading provider of aluminium sheet, plate and extrusions, as well as innovative architectural products, that advance the automotive, aerospace, commercial transportation, industrial, packaging and building and construction markets.



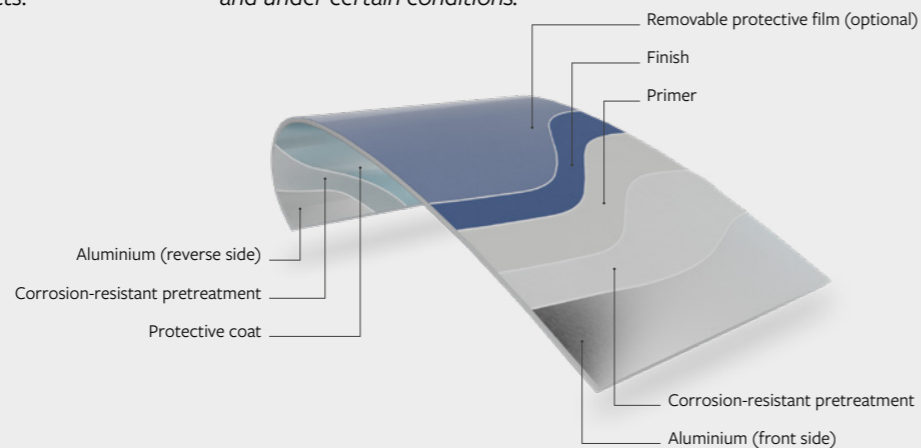
Reynolux® is a tremendously flexible product, suitable for façade cladding, roofs and many other interior and exterior applications in the fields of construction, corporate identity design, transport and industry.

From retail, healthcare, education and private housing to commercial and public buildings, Reynolux® can be used in new constructions as well as refurbishment projects.

Furthermore, the product is not only a market leader in construction but also proposes many solutions dedicated to the transport and industrial sectors.

**Composition of Reynolux®**

Example for a one-sided coating.  
*Double-sided coating possible on request and under certain conditions.*



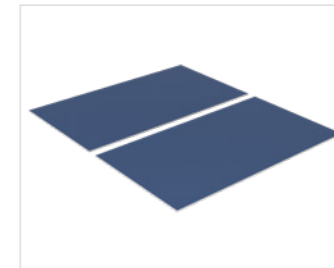
Combining beauty with high performance, our pre-painted coils and sheets come in an almost infinite range of colours, finishes, metal specifications and dimensions.

Quick and easy to install and maintain, Reynolux® aluminium is a cost-effective option with strengths including a high resistance to corrosion, UV and ageing. As such, we confidently offer up to 25 years' warranty on Reynolux® under optimal conditions\*, knowing the product complies with strict quality controls.

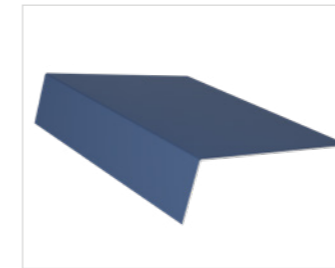
*\* Please check the warranty status with your Arconic contact before ordering.*

**Main fabrication methods:**

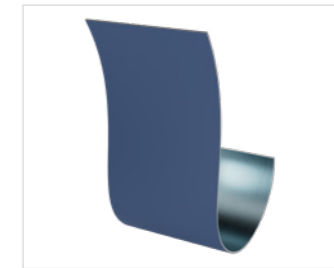
Reynolux® pre-painted aluminium coils and sheets provide great flexibility in transformation, allowing freedom in design for unusual and complex shapes. The main fabrication methods are:



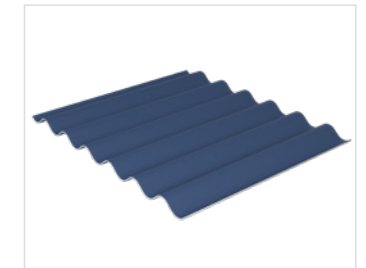
**Cutting**



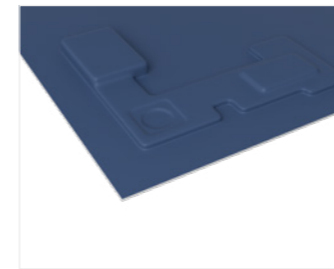
**Folding**



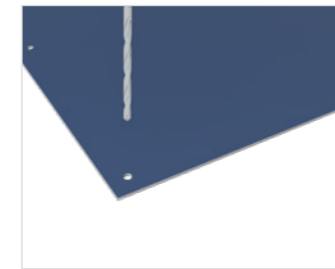
**Bending**



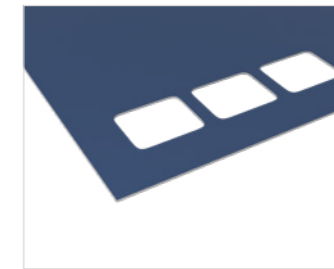
**Roll-forming**



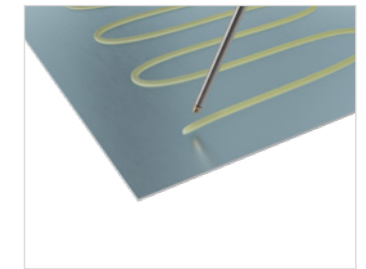
**Pressing / Stamping**



**Drilling**



**Punching**



**Glueing / Foaming**

**Reynolux® Standard Technical Data**

Standard Alloy Series	3000/4000/5000
Thickness	0.28 to 2 mm
Width	20 to 2 000 mm
Length	1 000 to 6 000 mm

Other specifications are available upon request.

Reynolux® is rated to endure long-term temperatures between -50°C and +80°C and can therefore withstand even the hardest mechanical stresses for roofing elements. Ideally, the material temperature for the machining should be ≥ 20°C.

Reynolux® can be delivered with protective film, designed to withstand the most demanding transformations (to be peeled off immediately after installation of the material).

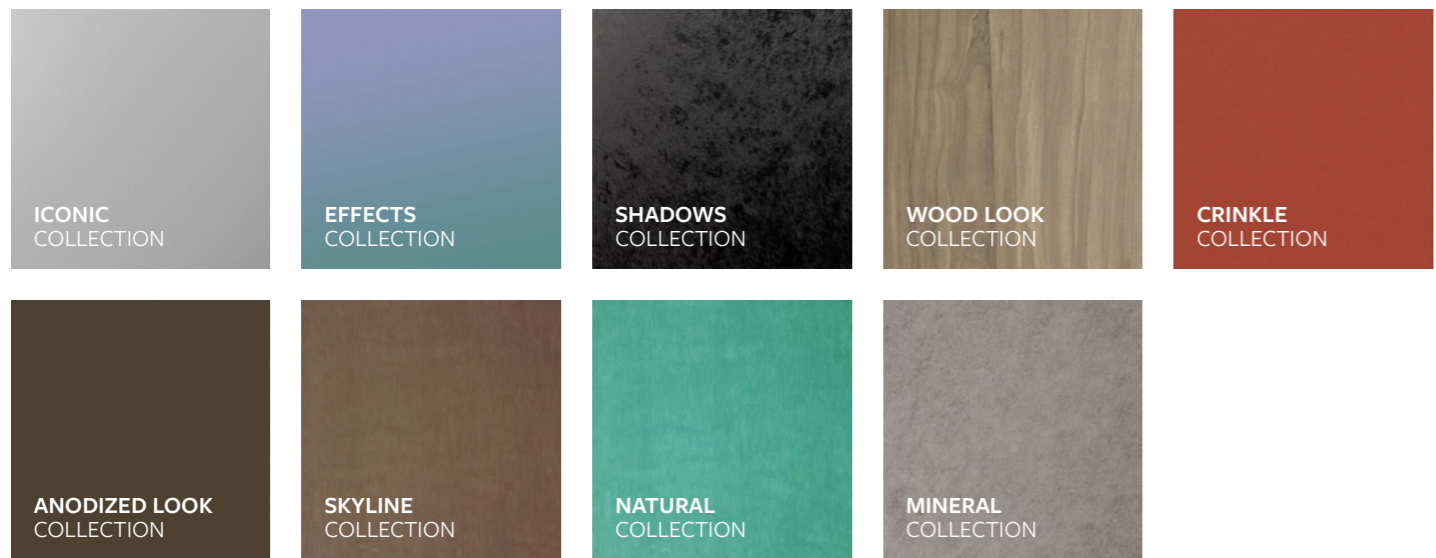


# OUR INSPIRING COLOUR COLLECTIONS

Reynolux® is available in several paint qualities, a vast range of colours and different gloss levels from MattXtrem 3% to High Gloss ≥ 80%.

Choose the colours you need to create instantly recognisable buildings, as well as industrial and transport projects, or ask us to produce individual colours upon request to match your specifications.

Contact us or refer to our colour collections brochure to find out more about any of our market-leading colour collections:



Our collections are suited for all types of projects, from iconic colours to creative finishes, depending on your vision and goal.

# PAINT QUALITIES

At AAP Merxheim, you can choose from several paint qualities according to the colour, application, location of the project and warranty requested. Do not hesitate to contact us to check the feasibility and consistency of the paint quality selected, according to your project.

**High-tech Coatings for architectural applications:**

Choose from DURAGLOSS® 5000, PVDF 70/30, SUPRAAL or CRINKLE.

**Durable Coatings for multi-purpose building products:**

Choose from DURAGLOSS® 3000, POLYESTER, POLYESTER POLYAMIDE, POLYURETHANE POLYAMIDE or POWDER LOOK.

More information about our wide range of paint qualities is available in our colour collections brochure and paint datasheets upon request.



# TECHNICAL COATINGS

In addition to decoration and performance, our technical coatings provide increased protection and extra functionality for specific applications. You can choose from Anti-Graffiti, EasyClean, StrongProtect or GreenShield.

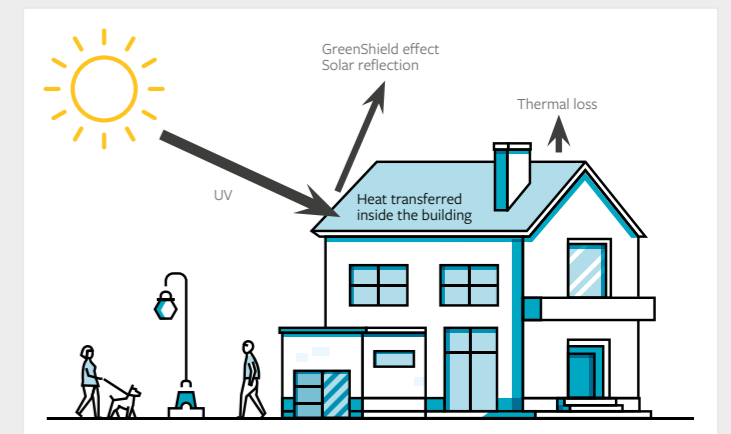
**Anti-Graffiti** coating helps ensure a clean appearance.

**EasyClean** is an innovative coating for the quick and simple maintenance of façades.

**StrongProtect** is highly scratch-resistant and durable.

**GreenShield** delivers thermal regulation by reflecting the sun.

Contact us or refer to our colour collections brochure for more information about our technical coatings. Technical coatings are optional and not available for all paint qualities. Please check with your Arconic contact for the possibilities available.



# BUILDING SOLUTIONS

Versatile and technically outstanding, Reynolux® can be used across so many construction applications, from new projects to refurbishments, and from roofs to façades and accessories.

Easy to process, Reynolux® can be fabricated using standard machine processes.



## Roofing

For roofing and roofing accessories, Reynolux® is not only easy to process, simple to fit and lightweight but also resistant to exterior conditions and very durable. Applications include:

- **Roof cladding (standing seam)**
- **Trapezoidal and corrugated sheets**
- **Roof shingles**
- **Tiles**
- **Flashings**
- **Ridge clamps**
- **Gutters**
- **Covers**

To ensure consistency, you can order the material for the roof and the matching accessories in the same colour and batch of production.

## Façades

For façades, the weather resistance makes Reynolux® an excellent choice, opening up a range of cladding possibilities. Simple to fabricate and available in many colours and coating systems, Reynolux® therefore delivers the outstanding design freedom and flexibility you need to meet your creative vision. Façade applications include:

- **Cassettes**
- **Trapezoidal and corrugated sheets**
- **Roll-form panels or cassettes**
- **Sandwich, honeycomb and composite panels**

To ensure consistency, you can order the material for the façade and façade accessories in the same colour and batch of production.

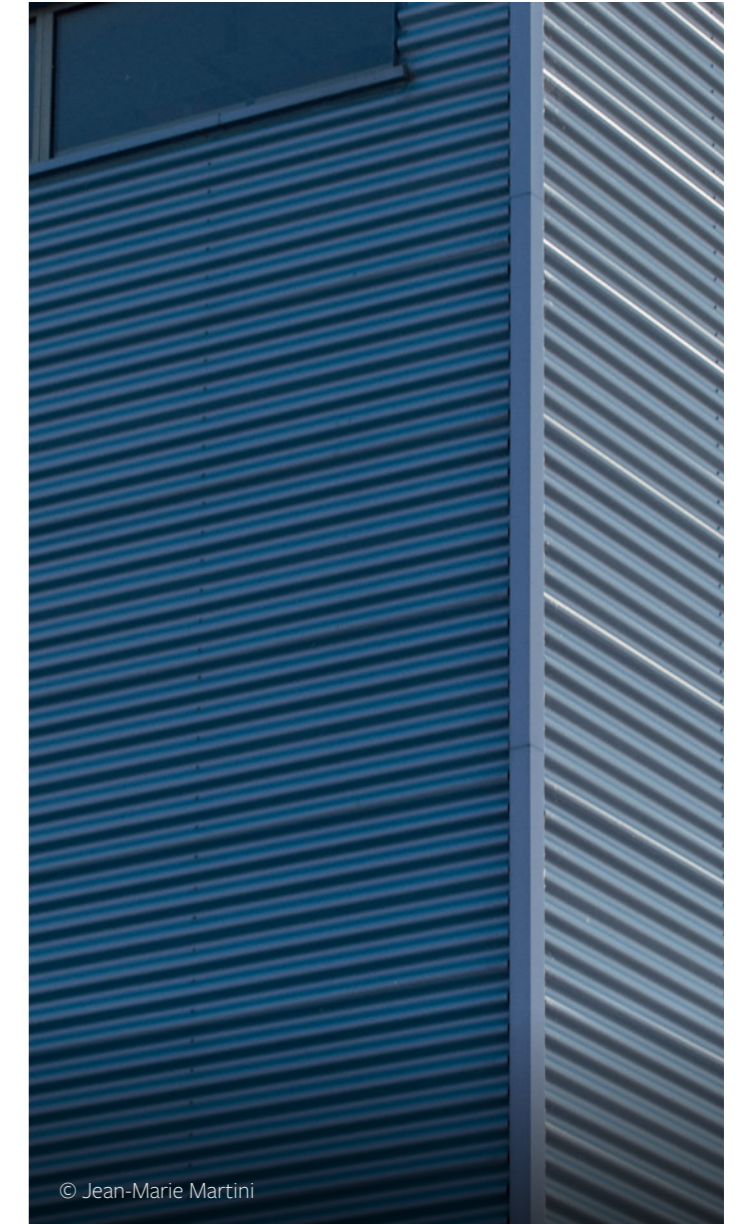


## Trim

Reynolux® Trim is a major player in the building accessories market for applications including:

- **Accessories for façades and roofs**
- **Skirts for doors and windows**
- **Window ledges**
- **Various prefabricated elements**

Our Reynolux® Trim delivery programme is outstanding, with 18 references from 600 kg available for dispatch within 48 hours of the order being placed. Contact us for more information.



## Residential extensions and interior applications

Alongside major construction projects, Reynolux® is also ideal for residential work, such as conservatories and residential outbuildings, as well as interior wall and ceiling claddings. Highly durable and requiring almost no maintenance, Reynolux® lasts superbly for many years.

# TRANSPORT AND INDUSTRY

Leading the field in construction, Reynolux® aluminium is also a popular choice for many applications in the transport and industry sector.

Reynolux® also delivers many advantages for industrial applications, such as protection for machinery or cladding of containers. With exceptional resistance to severe weather conditions and pollution, Reynolux® is also an ideal and durable choice for road traffic signs, direction signs or street signs.

For transport, the product can deliver an ideal cladding option for public transport, such as trains or buses, commercial vehicles including trucks, and even large private vehicles including camper vans, recreational vehicles (RVs) and caravans.



When you need a customised corporate identity that goes far beyond just a logo on the roof, you need Reynolux®. Expert in corporate identity programme management, AAP Merxheim guarantees a uniform display of your corporate identity across all locations, on a global scale. The quality and colours will be identical everywhere and the budget is therefore easy to set and control.

The further benefits of using Reynolux® for your Corporate ID include the minimal care required with a product so easy to clean and the fact Reynolux® is available in XXL widths up to 2 000 mm.

Let the design of your building reflect the brand of your business with durable, affordable and ecological coil coated aluminium.

**Stripe coating**  
Our cost-effective stripe coating process offers good resistance against ageing and allows two or more colours to be directly coil coated.

**Digital printing and sublimation**  
High-performance coatings suited for digital printing and sublimation delivering optimal ink adherence, reproducing even the finest lines with precision for incredibly vibrant colours. With the flexibility needed for transformations such as bending, these coatings are ideal for outdoor and indoor signage applications.

Corporate ID solutions from AAP are ideal for big retailers, car dealerships, gas/petrol stations and restaurant chains.

Delivering your marketing messages and capturing the attention of consumers, our coil coated aluminium can be used as cladding material for:

- Totems
- Canopies
- Roofs
- Façades
- Signs
- Displays



**Automotive applications**  
At Arconic, we can coil coat heat-reactive bonding agents for roof strips or sealing gaskets, adhesion primers, as well as supplying technical coatings with thermal emissivity properties. Our products can adapt to your technical requirements and fabrication constraints.

Our coil coated products can even be pressed or stamped to create complex parts. Cost-effective and time-saving, our pre-painted products do not need to be post-painted after transformation.

**Primers to free your creativity**  
Some of our primers are suitable for post-painting and other primer options allow you to apply a decorative finish driven by your creative vision and needs.

# OUR SUSTAINABLE COVERAGES GOES FURTHER

Environment is one of three pillars driving AAP Merxheim's commitment to sustainability. This consideration is decisive in the optimisation of materials throughout the supply chain as well as in our processes. We aim to increase recycled content, use energy more efficiently and reduce our carbon dioxide (CO<sub>2</sub>) emissions even further.



## Optimised processes

Coil coating technology is an eco-friendly process for painting large aluminium surfaces, requiring fewer cleaning steps and less paint than other processes. As part of our sustainable goals, we have been carefully monitoring our environmental indicators for many years.

- **Volatile Organic Compounds (VOCs):** 99% are captured and incinerated. Our emissions are below the applicable requirements (1/3 of the regulatory emission limit)
- **Sorting and recycling:**
  - Minimal waste material per tonne produced (recycling cardboard, wood, steel, aluminium and plastic)
  - Over 99% of hazardous wastes treated by specialist companies
  - Industrial wastewater treated to 99%
- **Recycled content in our raw metal:** Over 63% in 2023 (value calculated on our 2023 metal purchases)
- **CO<sub>2</sub> emissions:** 36% reduction in 2023 in comparison to 2022, thanks to a recent investment
- **Well water consumption:** 90% reduction in m<sup>3</sup>/year (2023 in comparison to 2003)

## Sustainable products

We work closely with suppliers to develop even more low-carbon metal specifications and always improve the composition, durability and cleaning requirements of coatings. For instance, we no longer use hexavalent chromium for our primers. Our paints now only contain lead chromate-free pigments and we voluntarily avoid using carcinogenic, mutagenic or reprotoxic mixtures. On top of that, we are also investigating other greener sources to improve the supply of materials.

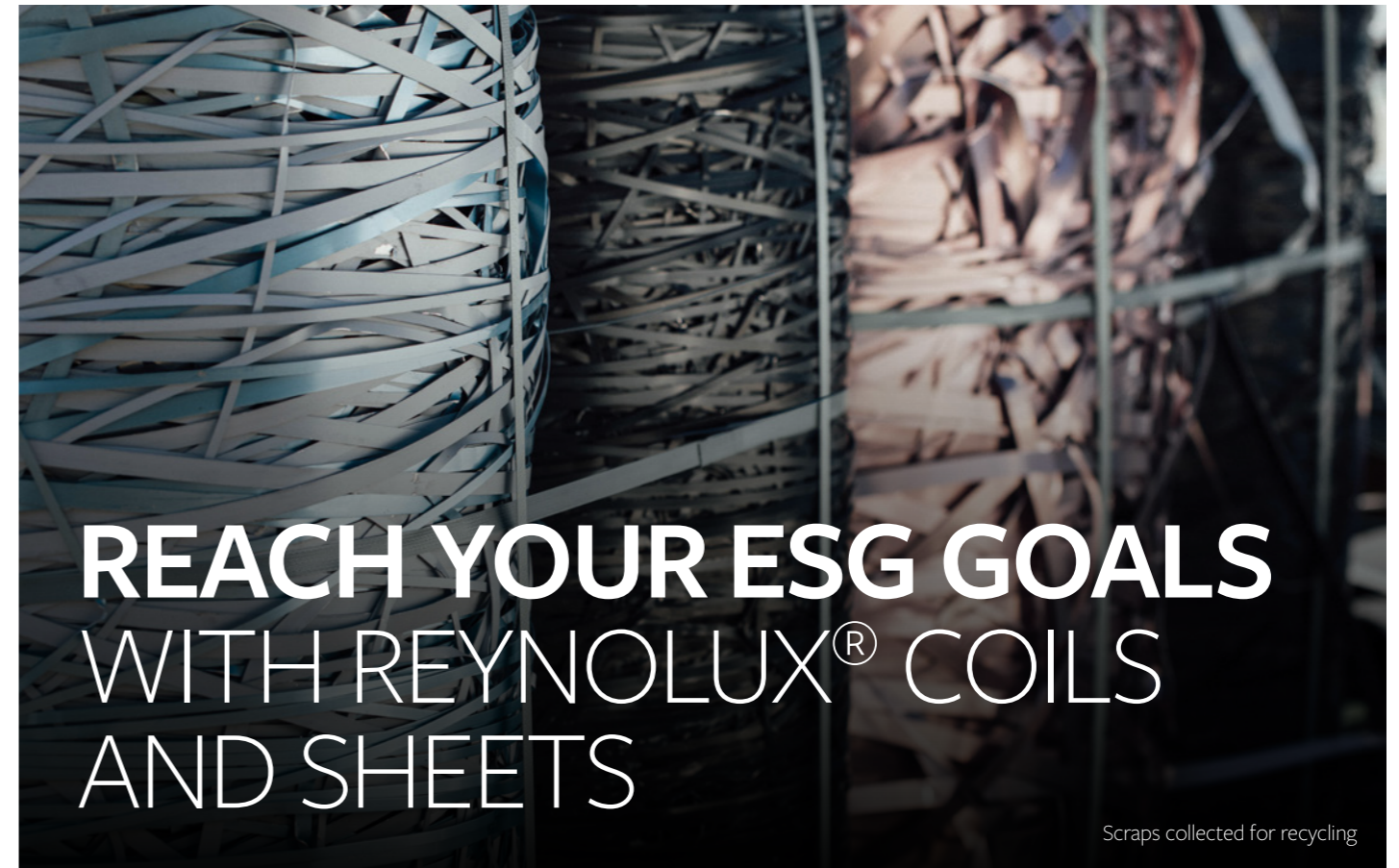
## The benefits of using aluminium

Aluminium is known and specified for its strength, durability and low-cost maintenance requirements. With a high strength-to-weight, aluminium can support heavy loads with low usage of materials, as well as reinforce other materials. Aluminium is completely recyclable while retaining its basic properties even after several recycling operations. That's why 92% of aluminium in the European construction sector is recycled and about 75% of the aluminium ever produced is still in use today.

Products like Reynolux® coils and sheets are highly durable without diminishing aesthetic appeal. Weather-, corrosion- and UV-resistant, a pre-painted aluminium-clad building usually has a service life in excess of 40 years. As an infinitely recyclable material, aluminium promotes the circular economy and reduces waste. To highlight our environmental commitment, we are working towards providing an Environmental Product Declaration (EPD).

For more information on recycled content usage and carbon footprint statistics, please contact us.

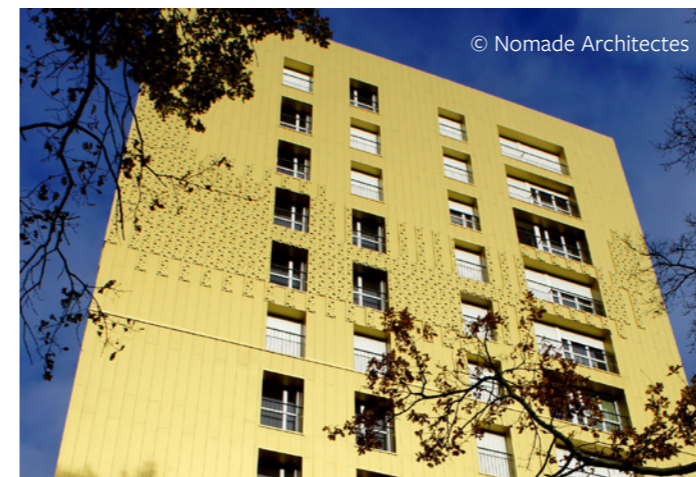
Source: Recycling of Prepainted Aluminium – European Coil Coating Association  
[www.prepaintedmetal.eu](http://www.prepaintedmetal.eu)



- **Ventilated façade:** Whether for new buildings or renovations, Reynolux® contributes to reducing energy consumption with optimal external thermal insulation.
- **Design collections:** Wood Look, Natural and Mineral collections mimic natural materials with a lightweight, durable alternative that we guarantee for up to 25 years (please check conditions with your Arconic contact before ordering).
- **Transport:** We continuously develop low-carbon transport solutions – check with us for possibilities.

- **Thermal regulation with GreenShield option:** By reflecting the sun instead of transferring heat, it lowers building energy consumption by 7%-15% on average. Please check possible options with your Arconic contact.
- **XXL products:** Up to 2 000 mm width for improved aesthetics, quick installation and less waste.

To find out more, please consult your AAP Merxheim contact or ask for our sustainability brochure.



## Collective housing “Herriot et Suisse”

Reynolux® was used for the renovation of collective housing “Herriot et Suisse” in the city of Le Mans in France. The aim of the project was to enhance a social housing district with contemporary architecture and insulating, energy-saving components.



## New ovens at AAP Merxheim

A recent investment in new ovens delivered a 67% reduction of CO<sub>2</sub> emissions on our upgraded production line.

# EARNING YOUR LOYALTY



At AAP, we believe customer loyalty must be earned. We build partnerships not only through our best-in-class products but also with our market-leading service. We know that if we work together with our customers, we grow stronger together. Our commitment is always to understand your vision and help you reach that goal.

#### **Delivery**

Got a tight delivery schedule, low-volume requirement or a large order?

Talk to us if you have any combination of the above, and we will look to find a solution.

Depending on colour, options, metal and dimensions, we can deliver coils or sheets of 1 000 kg minimum quantity, with a dispatch time from three weeks for made-to-order material. Please check the possibilities with your Arconic contact.

We always look to go beyond your expectations with our customisation and flexibility. For example, although we already offer a huge range of colours for Reynolux®, we can also produce individual colours upon request to match your specifications.

We never rest on yesterday's achievements. We pursue continuous improvement through innovation, agility, team development and collaboration. We take pride in our work, products and technologies that advance sustainable solutions.



We're **experts.**

We're committed to **exceptional service and quality.**

We're **Arconic Architectural Products.**



**Disclaimer**

As our customer, you are solely responsible for selecting the proper materials (AAP products) based on your customer's demand, the intended utilization, the technical characteristics of the product, integration in the project, the compatibility with other utilized material, and if applicable, how these products are incorporated into other products. AAP does not control how AAP products are fabricated, transformed or otherwise configured or used, nor how AAP's products are combined with other materials. AAP assumes no responsibility for any of the foregoing.

Laws and building and safety codes governing the design and use of AAP's products vary widely. It is the responsibility of the owner, the architect, the general contractor, the fabricator/installer and the transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations.



**REYNOLUX**