



# Alucoil®

Grupo Alibérico

## SUSTAINABILITY

### larson® & larcove® A2

GREEN THINKING  
SMART PRODUCTS FOR SMART CITIES



ECODESIGN



100% RECYCLABLE



CIRCULAR ECONOMY



GREEN MANUFACTURING



# INFINITELY RECYCLABLE ALUMINIUM

## Alibérico®

Aluminium is the second most abundant metal element on Earth. Its exceptional characteristics of **lightness, resistance and recyclability** make it the material of the future, with applications in multiple areas of people's everyday life and industrial activity.

**Alibérico®**, world leader in its transformation, has been innovating and developing products and applications in aluminium for more than two decades in sectors as varied as **food, pharmacy, cosmetics, building and mass transport**, among others.

Aluminium has unrivalled characteristics compared to other materials; it can be reused indefinitely as it does not lose any of its properties and its quality is not harmed in the recycling process. It does not break, burn or rust and is **100% recyclable**. Furthermore, **recycling aluminium saves 95% of the energy** that would be used in the extraction of primary aluminium, thus avoiding the emission of 90 million tonnes of CO<sub>2</sub> into the atmosphere every year.



Aluminium is synonymous with **innovation, avant-garde, sustainability and the circular economy**, and is a fundamental element in grand designs of the present and the future.



Aluminium is **easily and infinitely recyclable**, with direct benefits on an environmental and economic level. Its recycling gives rise to revaluation, as **recycled aluminium can be reused over and over again**.



Demand for aluminium products has doubled since the year 2000.

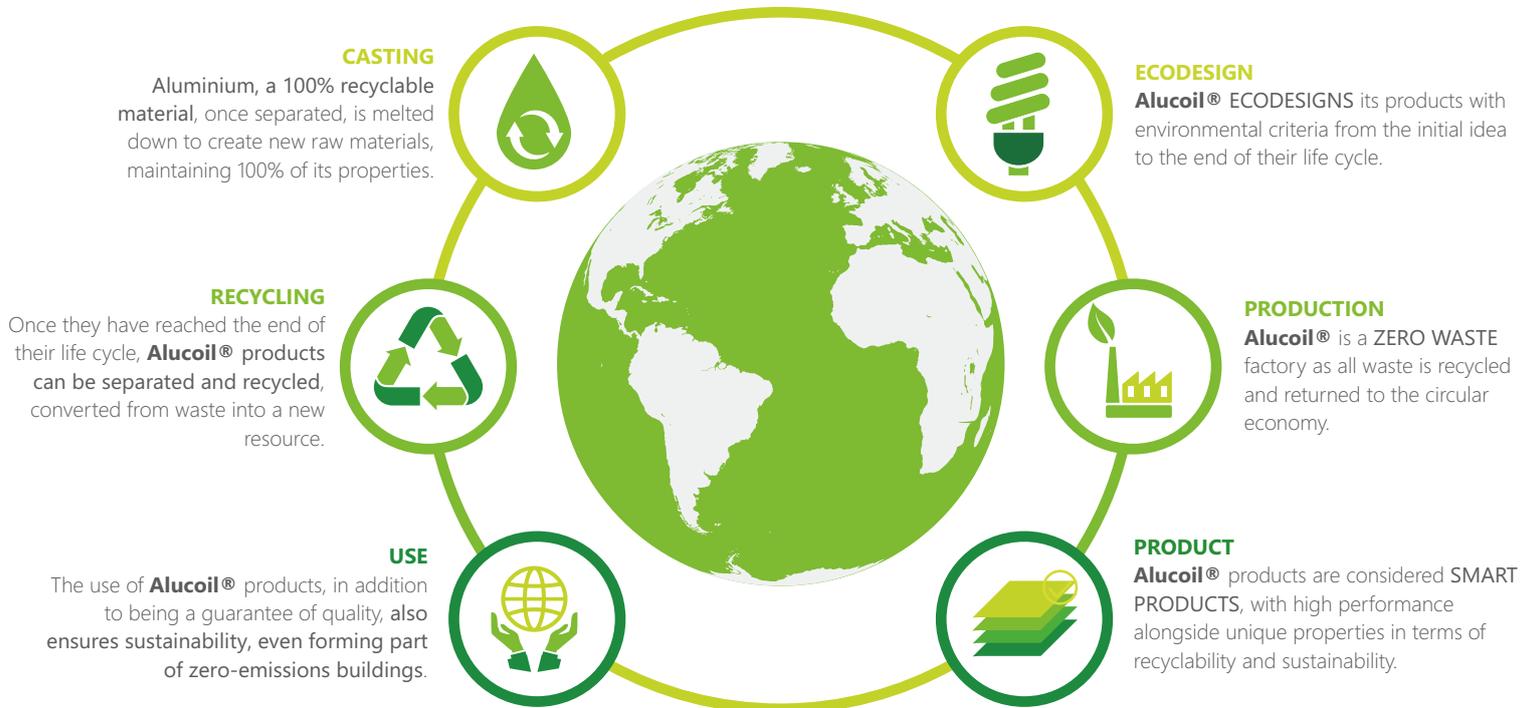
**More than 75% of the aluminium manufactured in the 1980s is still in use today, and can continue to be used.**



Recycling aluminium requires up to **95% less than energy** than the production of primary aluminium, saving around 90 million tonnes of CO<sub>2</sub> every year.

One of the greatest advantages of aluminium is that it is **infinitely recyclable**, with **direct benefits** on an environmental and economic level. Its recycling gives rise to revaluation, as recycled aluminium can be reused over and over again. In addition, the quality is not affected by the recycling process. This fact leads to a very high recycling rate.





Alucoil® is a Spanish multinational, headquartered in Miranda de Ebro (Burgos), specialising in the manufacture of technologically advanced materials for the architecture, transport and industry sectors. Since 1996, Alucoil® has been manufacturing and transforming the most innovative solutions in aluminium under their prestigious brands, becoming a world leader in technology, innovation and professionalism.

Specialising in the ongoing manufacture of composite panels and the powder-coating of coils and sheet aluminium, Alucoil® has more than 25 years of experience and a clear international vocation, with factories and sales offices on 4 continents, exporting to more than 85 countries all over the world.

Alucoil® processes are certified in accordance with the standards ISO 9001 and ISO 14001, which certify quality management systems and the commitment made by Alucoil® to environmental protection through the management of environmental risks related to their activity respectively. In addition, the quality of Alucoil® products is backed by the most stringent international certifications and regulations, always exceeding the standards.

Alucoil® manufacture can be considered ecofriendly as no Alucoil® processes expel greenhouse gases and the waste resulting from the aluminium is separated and recycled correctly so it can be reused within the circular economy.



## SMART PRODUCTS ECODESIGN



**Alucoil®** bases its whole product creation process on **ECODESIGN**, which means that the resulting products are designed from scratch with environmental criteria in mind, with the aim of reducing the environmental impact throughout the life cycle of the product, from the initial idea to its final disposal. **ECODESIGN** means that right from the start the product takes into account the environment, and does not harm it at any time during its life cycle.

The main element of the products that **Alucoil®** develops, manufactures and supplies for architecture is aluminium, a material that is infinitely recyclable and does not lose its properties during the recycling process. Therefore, in buildings made with **Alucoil®** panels, once they have fulfilled their purpose reached the end of their useful life, they can be removed from the building and 100% of the material recycled, thus preventing materials ending up in landfills and enabling them to be converted into other, or even the same, products. This makes aluminium the most highly recommended material for **sustainability** in the world of construction.

During their useful life, **Alucoil®** panels are designed to improve the conditions of the buildings. A clear example of this is in Passivhaus building, a construction standard with a high energy efficiency, that means the buildings have a very low or in some cases zero energy consumption, maintaining the quality inside the buildings. This standard is based on respect for the environment and the fight against climate change, drastically reducing energy consumption in buildings and avoiding the emission of greenhouse gases. The Torre Bolueta in Bilbao is the tallest Passivhaus building in the world and its whole façade is comprised of **larson®** panels manufactured by **Alucoil®**.

### ALBAN TOWER (ALBANIA)

Skyscraper in Tirana, made up of two towers, with the whole façade in **larcore® A2** panels

Foto: Tehnomarket



# larson®

## Aluminium composite panels

Under the **larson®** brand, **Alucoil®** manufactures the composite metal panels for cladding architectural façades. **larson®** was the first aluminium composite panel in the world to obtain an environmental product declaration (EPD) under the international EPD system. This certificate provides information on a product's environmental behaviour.

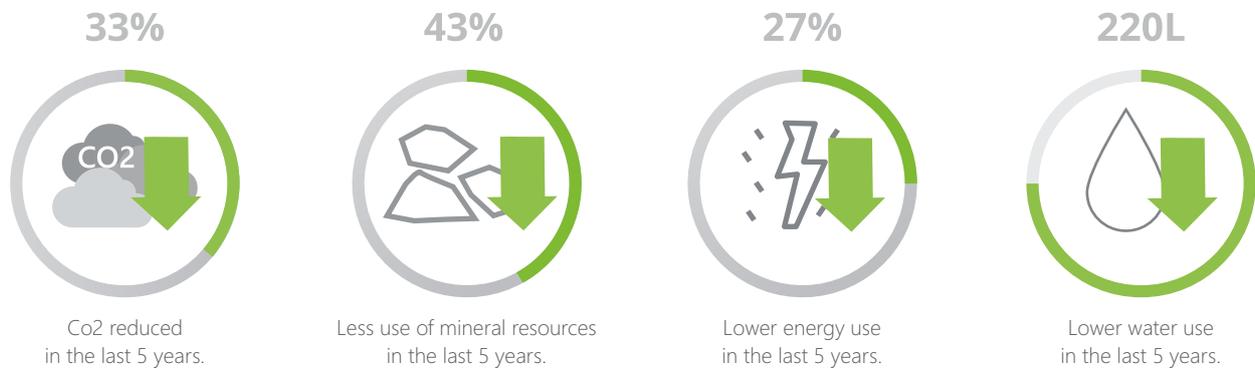


The manufacturing process of **larson®** panels is ongoing, so the use of the raw materials is optimised without creating large excesses. All waste from production is managed and recycled so it is turned back into raw materials.

Once the use of **larson®** panels comes to an end, they are easily recyclable, separating each sheet of raw material, which is then melted down and returned to the circuit of the circular economy.



In the production of **larson®** FR, for each m2 manufactured:



CASA SUNTHALPY (ASTURIAS, ESPAÑA)

The solar house that works without sunshine, disconnected from the power grid for more than a year, built with **larson®** panels.



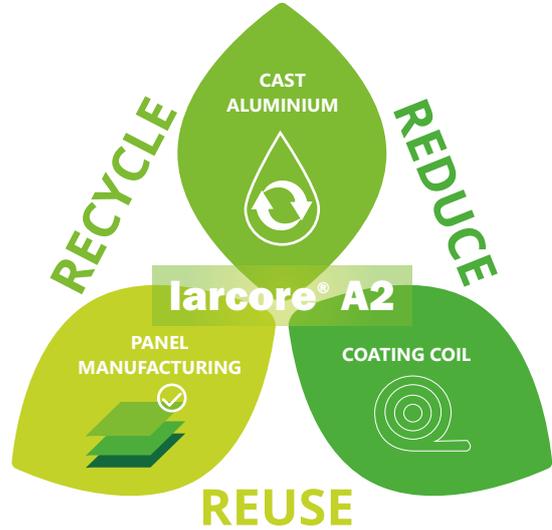
# larcore® A2

Aluminium honeycomb panels



**larcore® A2** is a 100% recyclable and ecoefficient aluminium honeycomb panel. Both its external skins and its core are 100% aluminium, so it is easily and infinitely recyclable.

Manufactured in a continuous process with state-of-the-art technology, unique on a world level, **larcore® A2** panels are the material of the future thanks to their properties of **lightness, rigidity, large dimensions and high recyclability**. These panels also have the EPD certificate accrediting their low environmental impact and the commitment to the environment.



## ECOEFFICIENT production, for each m2 of larcore® A2 manufactured:

16%



CO<sub>2</sub> reduced in the last 2 years.

68%



Less use of mineral resources in the last 2 years.

20%



Lower energy use in the last 2 years.

49%



Lower water use in the last 2 years.

75%



Less gases that affect ozone layer depletion in the last 2 years





# COMMITTED to the sustainable development goals

**Alucoil® is committed to the SDGs (Sustainable Development Goals) for 2030 working on a daily basis to:**



**HEALTH AND WELLBEING**  
Have an exhaustive risk prevention policy, and invest significant effort in guaranteeing the occupational health and safety of their workers. Give specific courses in occupational risk prevention to avoid incidents of any type, and to provide all the necessary resources to improve employees' health and wellbeing.



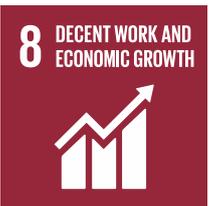
**QUALITY EDUCATION**  
We actively collaborate with local professional training centres and universities. We also sponsor a Master's in Lightweight Façades and provide the opportunity for two young people to obtain a grant to study free of charge. We give various in-house training courses so our staff can continue their training and adapt to new environments.



**GENDER EQUALITY**  
Thanks to our Equality Plan, we base our in-house promotion on experience and merit providing the same equal opportunities to all people. It should be noted that important senior management posts in the company are held by women.



**ACCESSIBLE, CLEAN ENERGY**  
Developing products for low or even zero energy consumption buildings. To consume products from local suppliers. We have also implemented in-house measures to ensure that production processes are more efficient, consume less energy and, therefore, contaminate less.



**DECENT WORK AND ECONOMIC GROWTH**  
Our human capital is the mainstay of our company's ethos. **Alucoil®** generates quality employment as 93% of the employees have a permanent contract. In addition, there are benefits that bring the salaries above the level of the collective agreement.



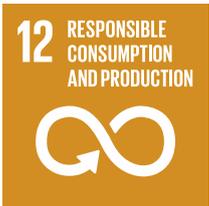
**INDUSTRY, INNOVATION AND INFRASTRUCTURE**  
**Alucoil®** has always been committed to reindustrialisation and has demonstrated this in its multiple extensions of its facilities and commissioning of new production lines.



**REDUCING INEQUALITY**  
The **Alucoil®** team is integrally multicultural and diverse: we are a team of people of all ages from their 20s to retirement age, of different nationalities, and collaborate with a wide variety of countries all over the world, with cultural and religious diversity.



**SUSTAINABLE CITIES AND COMMUNITIES**  
We participate with local entities such as the Miranda Chamber of Commerce, to foster the development of the city.



**RESPONSIBLE CONSUMPTION AND PRODUCTION**  
We promote the reduction of consumption by means of improvement plans that involve all workers. We have active plans to reduce consumption of raw materials and energy and to limit waste and promote its reuse in other auxiliary processes.



**CLIMATE ACTION**  
**Alucoil®** recycles all the excess material from its products to be give it a new life. The vast majority of its suppliers are local, reducing the carbon footprint of transport. **Alucoil®** has the EPD certification. The use and recycling of aluminium entails energy savings of 95%.



**MARINE LIFE**  
**Alucoil®** materials supplied for sea transport make it more efficient and sustainable, reducing pollution and therefore being more respectful of marine life. In addition, it promotes the use of aluminium as an alternative material to plastic as it is recycled instead of ending up in the ocean.



**ALLIANCES TO ACHIEVE GOALS**  
**Alucoil®** collaborates with the Centro Tecnológico Miranda, laboratories and other prestigious centres as essential allies in our research, development and innovation work, with the aim of continuing to launch the most innovative products onto the market.



# SUSTAINABILITY



**Alucoil®**

Grupo Alibérico

Polígono Industrial de Bayas. C/ Ircio. Parcelas R68-74  
09200 Miranda de Ebro, Burgos. SPAIN  
Tel.: +34 947 333 320 - info@alucoil.com

**[www.alucoil.com](http://www.alucoil.com)**