

ALUMINUM: THE RECYCLABLE SOLUTION FOR SUSTAINABLE FUTURE

Aluminum is becoming increasingly popular within the construction and façade industry — and for good reason.

Modern architects, engineers, and façade specialists are continuously searching for materials that combine:

- high performance,
- design flexibility,
- durability,
- and sustainability.

Aluminum meets all of these requirements.

Lightweight, strong, versatile, and endlessly recyclable, aluminum has evolved into one of the most future-proof materials available for modern building applications.

Why Aluminum Is Growing in Popularity

Aluminum offers a unique combination of technical and environmental advantages.

It is:

- lightweight,
- corrosion-resistant,
- flexible in design,
- easy to process,
- and exceptionally durable.

These characteristics make aluminum ideal for:

- ventilated façade systems,
- curtain wall constructions,
- cladding support structures,
- architectural detailing,
- and countless other applications in modern construction.

At the same time, its aesthetic versatility allows architects complete freedom in creating innovative and sustainable building designs.

Infinitely Recyclable Without Quality Loss

One of aluminum's greatest advantages is its ability to be recycled infinitely without losing its essential properties.

Unlike many other materials, aluminum can be reused repeatedly while maintaining:

- its strength,
- its quality,
- and its performance characteristics.

This makes aluminum a true circular material and an essential building block in sustainable construction.

Massive Energy Savings Through Recycling

Producing primary aluminum requires a significant amount of energy. That is exactly why recycling aluminum is so important.

During the recycling process, aluminum uses only: **approximately 5% of the energy required for primary production.**

This results in enormous:

- energy savings,
- CO₂ reduction,
- resource conservation,
- and environmental benefits.

In addition to reducing production costs, aluminum recycling also helps lower the overall ecological footprint of construction projects.

Supporting the Circular Economy

Recycling plays a critical role in building a sustainable and resource-efficient economy.

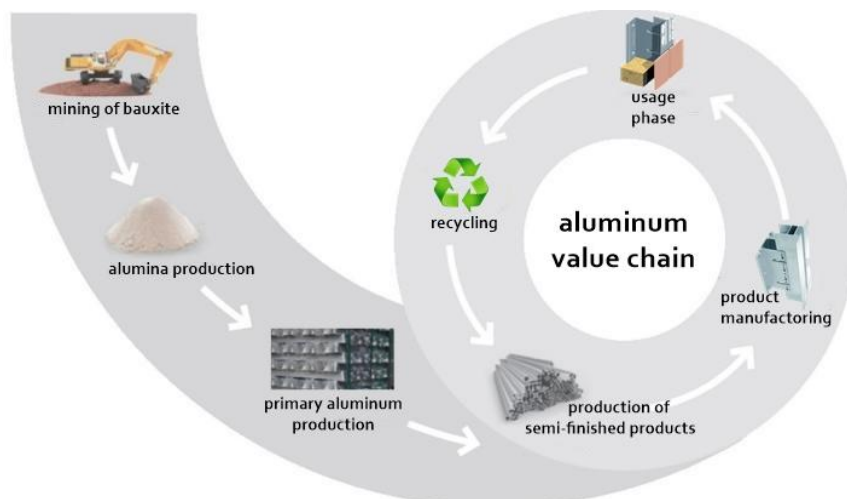
Aluminum is already one of the leading materials supporting Europe's circular economy strategy.

Today:

- more than half of all aluminum produced within the European Union originates from recycled sources,
- and this percentage continues to increase year after year.

Thanks to its strong recycling infrastructure and infinite recyclability, aluminum contributes directly to:

- sustainable economic growth,
- reduced raw material dependency,
- lower emissions,
- and responsible resource management.



The Smart Choice for Modern Façade Construction

For the façade and construction industry, aluminum offers the ideal balance between:

- performance,
- sustainability,
- aesthetics,
- and long-term value.

Combined with advanced bonding technologies such as TWEHA® adhesive systems, aluminum enables:

- lightweight constructions,
- cleaner architectural designs,
- hidden fixing systems,
- improved durability,
- and efficient installation methods.

The result is a modern façade solution that is not only visually attractive, but also environmentally responsible and built for the future.

Building Sustainably with Aluminum

As the construction industry continues to focus on sustainability, circularity, and energy efficiency, aluminum is becoming more important than ever.

Its unique combination of:

- endless recyclability,
- lightweight strength,
- energy efficiency,
- and long-term durability

makes aluminum one of the smartest material choices for the next generation of sustainable architecture.

Aluminum is not only a material for today — it is a solution for the future.

TWEHA®, 2026