PRESS RELEASE
Aluminium Profiles Become Part of the Solution to Embodied Carbon

Four verified EPD Optimization Reports demonstrate reductions of up to 65% in the carbon footprint of production, driven by circularity

The construction industry is entering a new phase. For years, attention focused primarily on the energy consumed by buildings during their operation. Today, however, **embodied carbon** is emerging as a key priority for the construction industry, referring to the emissions associated with building materials before they even reach the construction site. European legislation, investors and building sustainability certification systems are increasingly demanding measurable, verified data rather than general commitments.

In this context, **Europa Profil Aluminium S.A.** announces the publication of **four EPD Optimization Reports**. Independently verified, the Reports document the reduction in the carbon footprint of four key categories of aluminium profiles, comparing the 2022 EPDs, based on 2020 data, with the updated 2026 editions, based on 2024 data:

- **Mill Finished Aluminium Profile**
- **Coated Aluminium Profile**
- **Thermal Break Mill Finished Aluminium Profile**
- **Thermal Break Coated Aluminium Profile**

The Reports were developed with the consultancy of **DCarbon**, Europa's sustainability consultant. Verification was carried out by the independent verification body **BQV (Business Quality Verification P.C.)**.

From 2022 to 2026: A Measurable Transition Based on 2020–2024 Data

The comparison is based on Life Cycle Assessment (LCA) data and illustrates how the environmental performance indicators of the products have evolved over a four-year period.

The result: **a reduction of 46% to 65% in the GWP-total indicator at the A1–A3 production stage**, depending on the profile category.

This reduction is the result of a strategic choice: **increasing the use of recycled (secondary) aluminium** in production. This is reflected in the Secondary Material (SM) indicator of the EPDs. Aluminium can be recycled indefinitely without losing its properties, and Europa is turning this inherent characteristic into a tangible carbon advantage for its products.

Europa reviews its EPDs annually in collaboration with BQV. This enables the environmental performance of its products to be monitored as an indicator of continuous improvement, rather than as a snapshot of a single year.

Direct Value for sustainable construction projects

For engineers, manufacturers, developers and sustainability consultants, the EPD Optimization Reports are **a practical tool that can be directly used in their projects**.

- **LEED v4.1 BD+C – MRc: Environmental Product Declarations, Option 2: Embodied Carbon/LCA Optimization.** The EPD Optimization Report serves as key supporting documentation for demonstrating reductions in embodied carbon and improvements in other environmental impact indicators.
- **What is verified:** All four Reports demonstrate a reduction of at least 20% in GWP-total, together with reductions of more than 5% in at least two additional impact categories, compared with the initial 2022 editions.
- **Broader application:** The data can support Whole Life Carbon assessments, material selection strategies and the documentation of sustainability requirements set by investors and financial institutions.

Whether and how an EPD Optimization Report contributes to a specific project depends on the version of the building sustainability certification system applied, the requirements of the relevant credit and the project's overall documentation strategy.

Transparency as a Competitive Advantage

EPD Optimization Reports demonstrating reductions of this scale are still **relatively rare in the construction products market**. Their development requires:

- comparable life cycle data over time,
- consistency in the methodology applied across different editions,
- independent verification of the results.

This initiative therefore demonstrates the maturity of the manufacturer's data management and reporting practices. As requirements for calculating and disclosing carbon footprint become increasingly stringent, manufacturers capable of substantiating their environmental improvements will gain a clear advantage in project specifications.

The project is the result of collaboration between Europa, DCarbon and BQV, combining industrial expertise, scientific methodology and independent verification.

Looking Ahead

For Europa, the EPD Optimization Reports are not the end of a journey, but rather **a management tool**. Systematic data comparison identifies the factors that influence the environmental footprint of its products and informs future decisions concerning production, raw materials and innovation.

The objective is to move towards an increasingly **circular production model**, in which today's recycled aluminium becomes tomorrow's low-carbon product, and every improvement is measured, verified and disclosed.

"Embodied carbon will become a key factor shaping the competitiveness of building products. Europa has demonstrated that circularity goes beyond commitments, delivering tangible, independently verified improvements."

The four EPD Optimization Reports are available on Europa's website:

1) https://www.europaprofil.com/wp-content/uploads/EUROPA_Mill_Finished_Aluminium_Profile_EPD-Optimiz.-Report.pdf
2) https://www.europaprofil.com/wp-content/uploads/EUROPA_Coated_Aluminium_Profile_EPD-Optimiz.-Report.pdf
3) https://www.europaprofil.com/wp-content/uploads/EUROPA_Thermal_Break-Mill_finished_Profile_EPD-Optimiz.-Report.pdf
4) https://www.europaprofil.com/wp-content/uploads/EUROPA_Thermal_Break_Coated-Profile_EPD-Optimiz.-Report.pdf