

  
RecycAL 4.0

  
RecycAL 1.9

 Metal Technology

# Low-Carbon Aluminium



# Corporate Environmental Statement on Low-Carbon Aluminium

Metal Technology is committed to leading the UK façade systems sector toward a lower-carbon, circular, and resource-efficient future. A central pillar of this commitment is the continuous reduction of the embedded CO<sub>2</sub>-equivalent (CO<sub>2</sub>e) content within the aluminium we use for our window, door, and curtain walling profiles.

As aluminium production is traditionally energy-intensive, the strategic transition to recycled and low-carbon billet represents one of the most significant opportunities to reduce the environmental impact of our products across their lifecycle.





# Reducing Embedded Carbon through Low-Carbon Aluminium Procurement

Our RecycAL product strategy is designed to minimise the carbon intensity of our aluminium systems by maximising the use of recycled aluminium and verified low-carbon billet. This approach directly lowers the CO<sub>2</sub>e emissions embedded in each façade element we manufacture, supporting our customers and partners in achieving their own sustainability objectives, BREEAM and LEED targets, and corporate net-zero programmes.

Our proprietary low-carbon aluminium ranges are designed to allow specifiers to reduce embodied carbon without compromising performance.

RecycAL 4.0 is our standard offering, with RecycAL 1.9 available for ultra-low-carbon project requirements.



Aluminium billet with a carbon footprint below 4.0kg CO<sub>2</sub>/kg, supplied as standard across our full façade range



An ultra-low carbon option at 1.86kg CO<sub>2</sub>/kg, made with a minimum of 75% post-consumer scrap, available for project-specific applications

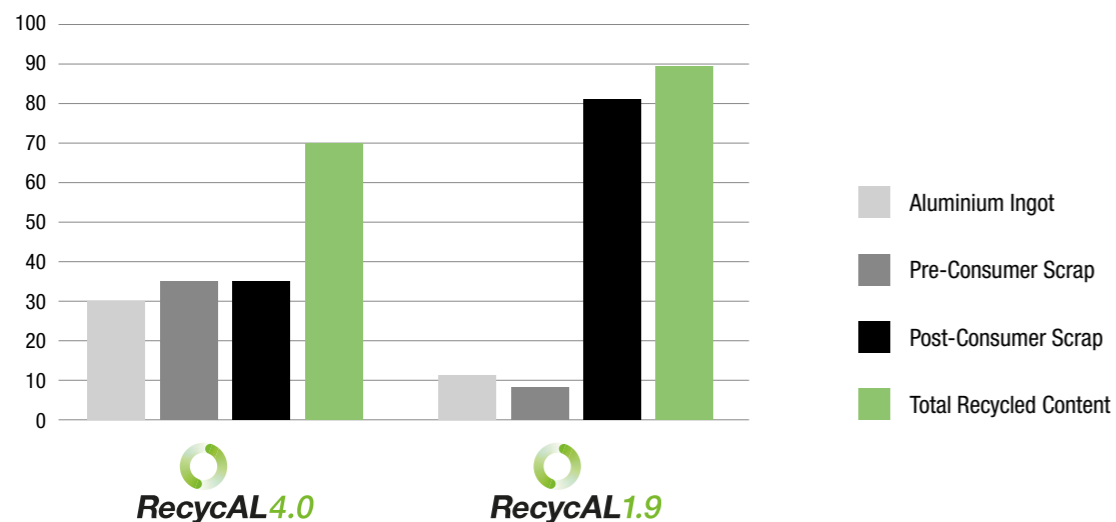


# Carbon reduction of 9,844 tCO<sub>2</sub>e

## Low Carbon Aluminium Billet Properties / Impact

Based on our aluminium procurement activity in 2025, Metal Technology achieved a carbon reduction of 9,844 tCO<sub>2</sub>e against our baseline through the adoption of low-carbon aluminium billet options.

This figure is particularly significant when compared with our baseline Scope 1 and Scope 2 emissions of 263 tCO<sub>2</sub>e, clearly demonstrating how material-level decisions deliver the most meaningful environmental impact.



	Aluminium Ingot	Pre-Consumer Scrap	Post Consumer Scrap	Total Recycled Content
<b>RecycAL 4.0</b>	30%	35%	35%	70%
<b>RecycAL 1.9</b>	11%	8%	81%	89%

## Carbon Footprint of Aluminium Billet (kgCO<sub>2</sub>e per kg aluminium)

Global average	16.7
European average	6.7
Previous Metal Technology standard	6.1
Current Metal Technology standard (RecycAL 4.0)	4.0
Optional Metal Technology ultra-low-carbon billet (RecycAL 1.9)	1.9

These reductions are achieved through higher levels of pre- and post-consumer scrap content and the use of sustainable energy sources within the manufacturing process.



Metal Technology's leading Passive House range of window, door and curtain walling systems support performance targets by delivering high thermal efficiency, air tightness and reduced thermal bridging.

When produced in low carbon aluminium these systems reduce both operational and embodied carbon, supporting whole life sustainability.





## Closed Loop Recycling and Circularity

In alignment with our commitment to circular manufacturing, Metal Technology actively participates in the Council for Aluminium in Building (CAB) Closed Loop Recycling Scheme.

Through this programme, we ensure that post-fabrication aluminium offcuts are kept within a closed-loop recycling cycle, guaranteeing that high-quality aluminium is re-melted and returned to the supply chain as new billet for reuse in construction products. We also actively encourage our fabricator network and Main Contractor Supply Chain partners to participate in this scheme, to increase the amount of post-consumer scrap being put back into the UK Closed Loop.

In 2025 alone, Metal Technology returned 26.5 tonnes of aluminium for closed-loop recycling, bringing our cumulative contribution to 88 tonnes. This closed-loop process not only reduces waste to landfill but also lowers the embodied carbon of future aluminium products by replacing primary aluminium with high-grade recycled material.



# CBAM

## Carbon Border Adjustment Mechanism

CBAM further incentivises UK-based recycling and reduced reliance on high-carbon imported aluminium. Our shift to low-carbon sources ensures compliance and minimises exposure to carbon-related import costs.

## UK Timeline

### April to July 2025

Technical consultation on draft primary CBAM legislation, with feedback due by 3 July 2025.

### From May 2025

Ongoing dialogue with the EU on ETS linkage and mutual recognition of carbon pricing.

### January 2027

UK CBAM goes live, with annual returns and payments for 2027 due by May 2028.

### Late 2025

Final legislation and detailed guidance expected.

### 2028 onwards

Quarterly returns and payments, with the potential expansion to more sectors and products.

The UK government has committed to engagement with stakeholders through its CBAM Joint Industry Working Group and will publish further guidance and delegated legislation before the regime goes live.

Source: <https://www.taxadvisermagazine.com/article/cbam-2025-and-beyond-what-you-need-know>





## Strengthening UK Supply Security and Reducing Import Dependency

By prioritising recycled and low-carbon-content aluminium, Metal Technology is reducing exposure to carbon-intensive primary aluminium supply chains and the volatility associated with global markets - an increasingly important factor in the context of evolving regulatory frameworks such as the EU and UK Carbon Border Adjustment Mechanisms (CBAM).

Our strategy supports UK construction clients seeking to reduce the embodied carbon of their projects without compromising technical performance, longevity, or design integrity.

## Independent EPD Verification & Carbon Reduction Performance

Metal Technology's Window, Door and Curtain Walling systems are supported by independently verified Environmental Product Declarations (EPDs), and these are available for download on our website and The EPD Portal -

<https://www.environdec.com/home>

Our annual carbon reduction targets are being exceeded, supported by significant savings of 9,844 tCO<sub>2</sub>e derived from low-carbon billet procurement.



## Driving Industry-Wide Low-Carbon Transition

As expectations for transparency and sustainability increase across the UK construction sector, Metal Technology remains committed to providing façade solutions with demonstrably reduced environmental impact. Through verified low-carbon aluminium procurement, circular recycling practices, and ongoing collaboration with industry bodies, we aim to accelerate the transition toward a more sustainable built environment.

Our investment in low-carbon aluminium is not a gesture - it is a long-term operational commitment designed to deliver measurable, verifiable carbon reductions for our customers, our industry, and the communities we serve.





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