

# Kawneer UK Ltd Environmental Declaration

## Company

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## Kawneer Systems

Kawneer products are designed to give specifiers totally integrated systems with unrivalled design flexibility. All systems are designed to optimise thermal performance in line with Document L and Scottish Building Standards Part 6.

## Weather Performance

- CWCT Standard for Curtain Walling and CWCT Standard for systemised building envelopes
- BS 6375 -1:2004 Performance of windows and doors, classification for weather tightness
- BS 6375:2 Specification for operation and strength characteristics

## Technical Characteristics

- U-value calculation by BRE U-value Calculator version 1.10b

## Element type: Windows, Curtain Wall, Doors - Aluminium frame

- Calculation Method: BS EN ISO 10077-1 and -2

**Environmental Management System BS EN ISO 14001:2004** for the sales, design, manufacture and supply of aluminium architectural products



Northumbria University  
AA@110 Curtain Wall



Glasgow Harbour  
AA@603 Tiltturn Windows, AA@603 Tilt Slide Doors

For further information on Kawneer or any of our products visit our website at [www.Kawneer.co.uk](http://www.Kawneer.co.uk) or contact our head office at Runcorn

## The Life Cycle of Kawneer Products

### Aluminium

Kawneer uses recycled aluminium billets 100% of the time. Aluminium is not impaired by recycling and unlike other metals, the scrap has significant value. It can also easily be integrated into other sustainable building technologies such as double glazing, sun shades/louvres and photovoltaics.

### Disposal

All materials used can be disposed of easily and safely.



*Aluminium billets*

## Environmental Profile

At Kawneer, sustainability is defined as using our values to build financial success, environmental excellence, and social responsibility through partnerships in order to deliver net long-term benefits to our shareowners, employees, customers, suppliers, and the communities in which we operate. We are dedicated to developing high-performance, sustainable buildings.

Aluminium is attained from the natural resource bauxite through an electrolytic process. The bauxite is mined, however only 5km<sup>2</sup> at a time is mined to acquire the bauxite and all the flora and fauna indigenous to the area are replaced through a rehabilitation process.

Recycled aluminium billets are used 100% of the time at Kawneer. Because aluminium does not rust, decay, or lose its quality, it can be recycled repeatedly without loss of properties. When recycling aluminium, it retains 95% of the energy used to originally produce it. In other words recycling aluminium only uses 5% of the energy originally used to mine, smelt and produce it.



*Bauxite mining site before rehabilitation*



*Bauxite mining site after rehabilitation*

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Kawneer's parent company Alcoa is one of the world's top three sustainable and low-carbon pioneering companies. Alcoa has pledged to be green house gas-neutral by 2020 which will be an achievement for a company with 130,000 employees globally.

Alcoa has long held the position that wastes should be minimised. Alcoa has reduced waste to land fills by 50% in 2007. Alcoa further plans to eliminate land filled wastes all together by 2015 and reduce processed water use by 60% by the end of 2008. Alcoa continues to design new processes with energy conservation and waste minimisation as our long-term goal.

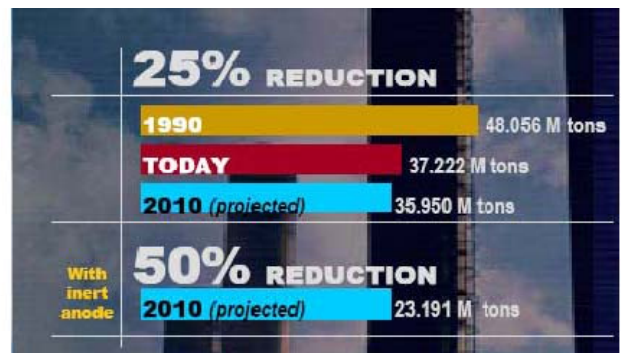
Unlike many recycling schemes where the scrap material is rarely re-used for the same application and is downgraded to an application requiring lesser metallic properties, aluminium in windows, for example, can be recycled to make new aluminium windows.

Since establishing our 2020 goals, we have made considerable progress toward the reduction of key environmental emission or generation rates. These include, from a baseline of 2000, significant reductions in volatile organic compounds (VOCs), nitrogen oxides (NOx), and the volume of waste disposed in landfills. Additional focus will remain on our goals for similarly reducing Sulphur Dioxide (SO<sub>2</sub>) and mercury (Hg) emissions.

Alcoa Elimination of Waste Targets



Alcoa Greenhouse Gas Reduction Targets



## Extrusions Life Expectancy

Kawneer aluminium extrusions carry a life expectancy of 50 years. Our paint finishes are covered by a 15 year gloss and 30 year matt guarantee including adhesion. Kawneer's in-house paint plant gives complete control over paint quality. Guarantees are subject to application and Kawneer acceptance in marine, industrial, swimming pools or other aggressive environmental conditions.

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