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Introduction

Welcome to Reynaers Sustainability, a guide aimed at changing perceptions, promoting development and helping you comply with Government directives on waste recycling.

Reynaers interest in sustainability is nothing new. We have always been at the forefront in the development of energy saving and sustainable products. An example is the introduction of external solar shading or brise soleil into our product range, which offer control over the energy efficiency of a building, meaning the use of energy sapping air conditioning can be significantly reduced. Another more recent development is that of our 'Solar' range, a selection of curtain wall and brise soleil products which are designed specifically for the integration of photovoltaic panels.

Taking the recycling theme to its ultimate conclusion, it is our intention to offer 100% recycled aluminium on request.

Aluminium and recycling

Reynaers' Aluminium is a highly effective and sustainable material. It is ideal for its properties, conducive to the window industry and it is environmentally friendly because it can be recycled over and over again without any loss of properties.

Added to this is the fact that the remelting process requires little energy - only around 5% of that used for primary aluminium production. Reynaers are committed to helping create a sustainable environment and have played a large part in ensuring that 85% of aluminium used in the construction industry is recycled.

Taking the recycling theme to its ultimate conclusion, it is our intention to offer 100% recycled aluminium on request. Talk to your Reynaers representative to find out more.





GREEN 'A' RATING

Reynaers' Eco and CS aluminium window systems meet the 'A' rating in accordance with guidelines set by the BRE Green Guide.

This relates to the guide's online generic specification for a powder coated aluminium window (profile <math><0.9\text{kg/m}</math>), double glazed (ref. 831500023).

The Green Guide is part of the BRE Environmental Assessment Method (BREEAM), the world's longest standing and most widely used environmental assessment procedure for buildings, which aids designers and specifiers in the selection of materials that have a lower environmental impact.

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BREEAM assesses the collective impact of all the materials used in six different building types including: commercial, such as offices; educational; healthcare; retail; residential and industrial, as well as promoting best practice in sustainable design.

Each product is given a rating in the guide from A through to E, in accordance with its sustainability, where A is the best possible rating and E the worst. In meeting the 'A' rating Reynaers have achieved the highest possible grade for an aluminium window.

The 'A' rating boasts a number of clear advantages:

- **Green Guide** - the Green Guide is widely respected. It is part of BREEAM which sets the standard for best practice in sustainable development
- **Specification** - architects and specifiers are looking to select products which are not only functional but could afford a BRE guide 'A' rating for a building
- **High performance** - by corresponding with the 'A' rating specifications Reynaers have realised the highest possible grade for an aluminium window

Whilst Reynaers have long been proud of the company's innovative and sustainable solutions, meeting the BRE Green Guide 'A' rating specification is a significant achievement, providing yet another reason to choose Reynaers.

Environmental commitment

Reynaers' environmental commitment is evident through the wide range of sustainable products on offer. Products that include windows with U values as low as $1.2\text{W/m}^2\text{K}$, curtain walling which allows the easy integration of solar panels (CW60) and suncreening systems which reduce the reliance on air conditioning.



Rey-cycle SWMP initiative

Rey-cycling - what's it all about?

Rey-cycle is a unique, all-encompassing site waste management system specifically developed by Reynaers for the use of customers.

Rey-cycle eases the burden of accountable waste recycling by providing all the necessary information, paperwork and calculations to complete a ready prepared Site Waste Management Plan (SWMP). It offers a comprehensive solution to site waste management, rationalising waste deliveries and disposal at all stages throughout a construction project.

The Rey-cycle initiative includes:

- A simple three step site waste action programme
- Full recycling management plan, so customers can be confident that the maximum level of recycling is achieved, along with the necessary documentation
- A Site Waste Calculator, allowing an accurate assessment of the waste to be removed from the site throughout the project

For further information visit our dedicated website www.reycle.co.uk or call Reynaers on 0121 421 1999.

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Aluminium and the recycling loop

The real sustainable benefits of using Reynaers aluminium are perhaps best demonstrated by our Rey-cycle loop diagram, which outlines the journey our sustainable products make.



Head office solar panel installation

Leading the way

Buildings represent up to 35% of total energy consumption. Recent studies have shown that by 2030 energy used in building and construction can be reduced by up to 45%. This means buildings can become a major factor in reducing energy consumption.

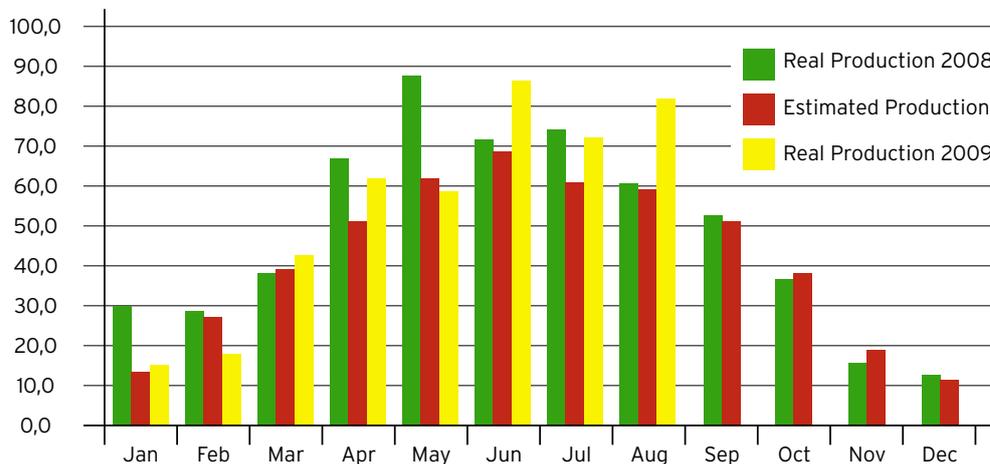
At Reynaers we truly consider sustainability as one of the fundamental trends in the building industry. Therefore we do not only systematically improve thermal insulation of our products but also integrate green technology in our solutions. Our Curtain Wall 60 Solar product is a good example of this; it allows solar panels to be seamlessly integrated into a façade, meeting all the modern architect's standards in design and performance whilst actively generating clean energy.

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Reynaers' clear commitment to sustainability is also demonstrated by the fact that its new head office warehouse incorporates a substantial photovoltaic roof installation. An area of 10,000 m² is used to carry 3072 photovoltaic sun panels. The original design concept was to generate 500,000 kWh solar energy per annum; the equivalent of the electricity supply for 190 households, and sufficient to provide the total energy consumption for the warehouse. Estimates showed that the solar plant would also reduce CO₂ emissions by 278 tons per year.

The installation has now been up and running for over two years and the panels have generated more power than originally anticipated. In 2008 the amount of energy produced amounted to 571,200 kWh. Figures obtained at the end of Q3 2009 look like they will be on track to once again exceed the 500,000 kWh target.

Production REYNASOL



Reynaers' commitment to innovation and environmental practices is apparent throughout the company's products and processes and will continue to remain a key priority for the future.

To find out more call Reynaers on 0121 421 1999 or visit www.reynaers.co.uk



Sustainable Products

Our extensive range of window, door, curtain wall and brise soleil products fully support the Reynaers Sustainability pledge and as the systems continue to develop, it is essential that they become even more environmentally friendly.

Fenestration Solutions

The Eco system range with variants **Eco system 50** and **Eco system 75** helps to ensure high performance energy efficiency, whilst still retaining traditional aesthetical appeal. Unlike timber and plastic, the aluminium used in our window and door systems is 100% recyclable, meaning it can be continually re-used without any loss of quality or performance.

To help improve global Sustainability it is important that designers and developers utilise the energy saving solutions that offer the potential to help reduce global warming. Two such products developed by Reynaers for incorporating into standard window, door and curtain walling ranges, are Ventalis and Airmax. Crucially, both products increase natural ventilation whilst reducing the reliance on air conditioning.

Ventilation Solutions

An integrated and controllable trickle ventilator, **Ventalis** ensures sufficient supplies of fresh air into a building without losing the benefits of good insulation. It is easily installed being mounted into existing frames or partially behind the outer walls of a façade providing a more “hidden” appearance, maintaining the outer appearance of the building.

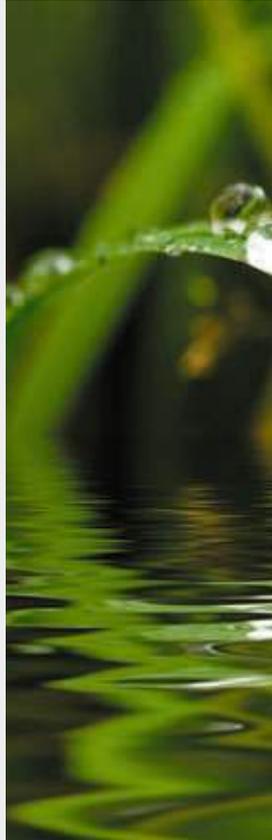
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As part of the **Airmax** range, Reynaers offers a unique stand-alone parallel opening window, as well as an integral curtain wall option. Ideal for public buildings, such as schools, hospitals and hotels this window achieves greater air flow through the openings on all four sides. Despite the airflow being almost double that of a top hung window, less draught is created as the opening is distributed equally around the entire window perimeter.

Solar Solutions

As part of its innovative solar management system, Reynaers now offer **Curtain Wall** and **Brise Soleil** products which are specifically designed to incorporate photovoltaic panels. The profiles are designed to allow maximum sunlight to access the panels with all cabling being concealed within the structure.

With many other Reynaers products supporting the Sustainability programme and new product innovations being developed all the time, Reynaers really are at the forefront of energy conscious developments. For more information on our product range contact reynaersltd@reynaers.com for a product overview brochure or visit www.reynaers.co.uk



The way forward

To see how Reynaers can help you and to find out more about Sustainable products and environmental developments visit our websites www.reynaers.co.uk and www.reycle.co.uk

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