

Reynobond® | Reynolux®



Dedicated
to a Greener World



Dedicated to your Success

Making the World a Better Place For Everyone

Alcoa is one of the top sustainable and low-carbon pioneering companies in the world and highly recognized by government and non-government agencies for our environmental stewardship.

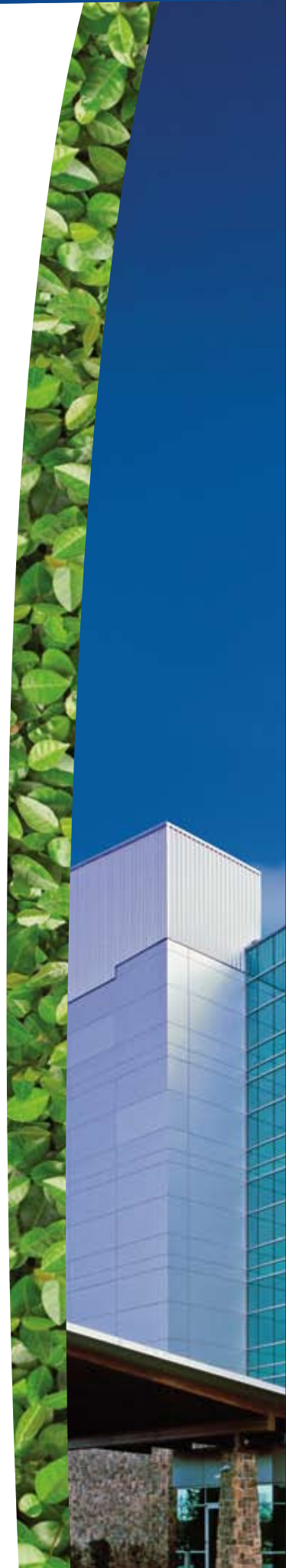
We fully understand the critical importance of minimizing impacts and maximizing environmental opportunities in the products we offer as well as the manufacturing processes and operations.

It is this leadership from Alcoa Architectural Products that makes Reynobond® and Reynolux® the materials of choice for architects searching for more sustainable, environmentally sound solutions while earning LEED® certification points.



The Arkansas Department of Environmental Quality headquarters – the first state office building in Arkansas to be awarded three Green Globes and a LEED Gold certification. Reynobond and Reynolux were the natural, sustainable choices to meet their environmental protection mandate.

**Arkansas Department of Environmental Quality,
Little Rock, Arkansas, USA**





Materials & Resources: Every Point Counts

Reynobond® and Reynolux® deliver the sustainable solutions to achieve more innovative building designs, which may also help to contribute LEED® points within the Innovation in Design category.

Reynobond and Reynolux are eligible for up to two points within the Materials and Resources section.

- MR Credit 4.1 awards one point if the sum of the post-consumer content plus one half the post-industrial content constitutes at least 10% of the total value of the materials in the project.
- MR Credit 4.2 awards an additional point if the total value is at least 20%.

Reynobond is a composite material manufactured using coil-coated aluminum over a polyethylene core. The aluminum skins are 90% post-industrial recycled material.

The 4 mm Reynobond total recycled material content:

- Recycled content by weight for 4 mm Reynobond PE = 45%
- Recycled content by weight for 4 mm Reynobond FR = 33%

The recycled content is all post-industrial.

Reynolux profiled panels and sheets are manufactured using 90% post-industrial recycled aluminum coils.

- Reynolux recycled content by weight = 90%

Reynobond and Reynolux products are manufactured in Eastman, Georgia.

Alcoa Architectural Products has a LEED-certified individual on staff with professional accreditation through the U.S. Green Building Council.

Re-smelting aluminum saves up to 95% of the original energy needed to produce the product.

ASPIRE Sports Dome, Doha, Qatar





Leading Environmental Initiatives & Practices

Recoverability

Reynobond® and Reynolux® are fully recoverable. The aluminum used to manufacture both contains, on average, nearly 90% recycled material – an attribute that can help earn points toward LEED® certification. Reynobond's polyethylene core can be reheated and reused indefinitely.

Paint Process

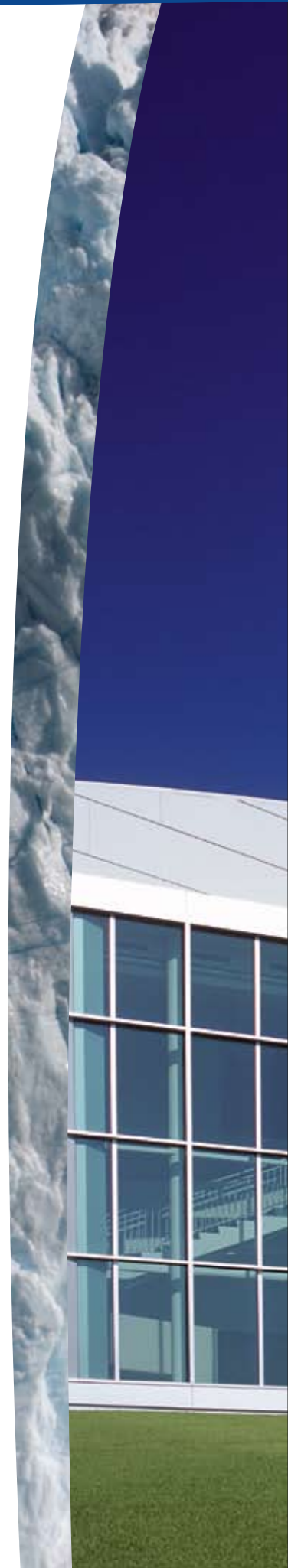
The paint process is recognized for its stalwart emissions control and meets or exceeds the stringent standards of the EPA. The coil-coating process used in producing Reynobond and Reynolux captures and destroys 99.9% of all volatile organic compounds (VOCs) generated during the coating and curing process. Waste paint is sent to a waste-to-energy plant. In addition, we operate a distillation unit to recover and reuse all solvents used to clean the machinery.

Waste Minimization

All scrap aluminum is sent back to aluminum-processing plants for recycling. Excess material from Reynobond's polyethylene core is recycled back into the manufacturing process. As part of our effort to support our communities and help save landfill space, we donate materials to school systems and charitable organizations.

More than 60% of the electricity used to produce aluminum is generated by hydro-electric power – in itself a sustainable process.

**University of Alaska Museum of the North,
Fairbanks, Alaska, USA**





Health, Environment & Safety: A Foremost Responsibility

Protecting and promoting the health and well-being of the individual and the environment is at the heart of our values. By setting higher standards for accountability, governance and the efficient use of resources, we will continue to protect the needs of current and future generations.

Our resource tracking plan monitors and tracks waste products, energy and water usage, and scrap and raw materials.

Our conditionally exempt small-quantity hazardous-waste disposal generator classification from the EPA for our manufacturing process meets established standards pertaining to location restrictions, groundwater monitoring and corrective action.

We monitor storm runoff, conduct regular site inspections and review management tactics through our stormwater best management practices and groundwater protection plans. Our office expansion in Georgia includes the state's first "green" parking lot, a porous pavement made of recycled glass that actively filters water, addressing stormwater management requirements.

Eastman processes are inspected to prevent spills and protect the environment and personnel.

Our recycling programs include aluminum, steel, plastics, oils and wood pallets.

Alcoa has pledged to be greenhouse gas-neutral by 2025.

The recycling rate of used aluminum products in construction is currently 80%. Nearly 70% of the Alcoa aluminum ever produced is still in use today.

Moulin de Nailloux, Nailloux, France





The People of Alcoa: A Brighter World Begins at Home

We are committed to supporting the vision, integrity and volunteerism of our employees as they strive to build a healthier, more sustainable future for our planet and its people.

In recognition of our philanthropic and community outreach, Alcoa Architectural Products was named 2007 Eastman-Dodge County Business of the Year.

Our employees volunteer nearly 500 hours a year to various community efforts.

Alcoa Architectural Products awards grants to various charitable foundations and organizations.

As part of our education initiative, we award various college scholarships, champion apprenticeship programs and provide essential funding to educational programs.

In 2006, The Alcoa Foundation awarded more than \$26 million in grants around the world in 215 communities.



Where bauxite is mined, great care is taken to reinstate the land with indigenous flora and fauna. Alcoa has itself planted more than one million trees.

**USDA-ARS Southern Horticultural Laboratory,
Poplarville, Mississippi, USA**







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