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American Aluminum Extrusion COMPANY, LLC

AMERICAN ALUMINUM EXTRUSION COMPANY

Aluminum News

American Aluminum Extrusion Company

American Aluminum Extrusion Co. was founded in March 2001 by Samuel Popa when Sam purchased an abandoned aluminum extrusion plant in Japan. The plant was dismantled and shipped to the United States. While searching for the perfect location to assemble the presses, he met and partnered with Ken and Diane Hendricks and made the decision to locate the plant at its current location at 1 St. Lawrence Ave. Beloit Wisconsin. As partners, they built the business from nothing; on a dream and passion with very basic business philosophies, supplying standard and custom aluminum extrusion shapes and fabricated aluminum parts into the market at a lesser capital cost than the larger corporations Because of this philosophy, the company continues to grow and has survived this slow economy. We currently employ 130 associates between the plant in Beloit WI and the second division that we acquired in Canton Ohio in October 2001

American Aluminum Extrusion services the following markets.

- Transportation
- Distribution
- Building & Construction
- Electrical
- OEM
- Solar Energy
- Linear Motion
- Manufactured Consumer durable goods.

Our experienced engineering staff provides design guidance to our customer to assure that we deliver the accuracy and finish you expect. Our two strategically located regional locations in Wisconsin and Ohio are situated to service the Midwest.

Aluminum—A recyclable raw material

Recycling is important for so many reasons. With many landfills closing due to lack of additional capacity, it is necessary to reduce the solid waste stream; recycling diverts significant amounts of material for reuse. Businesses are driven by economic factors; recycling saves money because the raw material recaptured by recycling costs less that that derived through mining. Energy conservation has become a necessity for both economic and environmental reasons; aluminum recycling saves 95 percent of the energy required to produce aluminum from raw materials. Conserving natural resources is important; because it takes four pounds of bauxite ore to produce one pound of aluminum, every pound of recycled aluminum saves four pounds of ore. Historically aluminum has proven to be one of the most important materials in successful recycling programs. Aluminum offers high scrap value, widespread consumer acceptance and aluminum recycling enjoys significant industry support. All forms of aluminum can be recycled and reused over and over without losing any of its characteristic attributes— there is no loss of quality in using recycled aluminum. It is not enough for the material to be recyclable; the material must eventually find its way back to a viable end use. (excerpt from aec.org)

Inside this issue:

Aluminum and Sustainability

Excerpt from
Aluminum Association Newsletter

On Earth Day 2008, The Aluminum Association launched a sustainability initiative aimed at boosting recycling, energy-efficient product applications, and operating efficiency. The effort - outlined here - comprises specific action, communication to key groups, and organizational change to ensure the initiative goes forward--and builds on the decades-long work of the aluminum industry to operate in a sustainable manner for the good of the environment and the industry's customers.

"Sustainability has long been the driver of the aluminum industry's actions and communications," said Kevin Anton, President of Alcoa Materials Management and Chairman of the Aluminum Association. "Aluminum produced from scrap, uses only 5% of the energy as primary aluminum does. For example, in automotives aluminum reduces vehicle weight and increases mileage and performance without compromising safety. Increasing what is already a solid record of operating efficiency will further leverage aluminum's benefits to our customers and to society. The sustainability initiative will involve a long-term effort to align our actions, our communications and the Association's organizational structure to help address the many environmental challenges we face."

Commercial Vehicles: Did You Know?

Use of low weight, high-strength aluminum components allows trucks to carry larger cargo loads without violating weight restrictions on bridges and roadways. Driven largely by these payload considerations, aluminum has experienced over 30 years of continual growth in commercial applications. Additionally, the benefits of lightweighting trucks with aluminum go beyond increased cargo capacity, including improved fuel economy, reduced emissions associated with greenhouse gases, lower maintenance costs, improved durability and higher resale value.

Consider:

Environment

- *For every ton of aluminum added to a fleet, there is the potential to save 37 tons of CO_2 over the life of the vehicle and 32 lifecycle tons; this equates to the potential to save 50 million tons of CO_2 from a million trucks*
- *Big CO_2 benefits come with every pound of aluminum that replaces steel on a truck; in fact, 18 pounds of CO_2 is saved for every pound of aluminum used*
- *As emissions are proportional to fuel consumption, a 4 percent reduction in fuel consumption results in 4 percent reduction in CO_2 emissions, and 4 percent reduction in particulate system loading*
- *The aluminum industry has staked out a leadership position on CO_2 and has voluntarily cut greenhouse gas emissions by 30 percent since 1990*
- *73 percent of all aluminum produced since 1888 is still in use today*
- *Aluminum is 100 percent recyclable with no downgrading of its qualities*
- *The re-melting of aluminum requires little energy: only about 5 percent of the energy required to produce the primary metal initially is needed in the recycling process*

(cont'd)

Commercial Vehicles: Did You Know? *(cont'd)*

Growth

- The average Class 8 truck today uses over 1,000 pounds of aluminum, about 4 pounds of total tractor weight. Comparatively, the average aluminum content in light-duty vehicles is currently about 9 pounds

Performance

- *A one ton weight reduction in Class 8 Tractor-Trailer can equal up to a 588 gallon fuel savings annually or 3,400 gallons over the lifecycle of the vehicle*
- *On a national level, this equates to 836 million gallons annually totaling $3.3 billion*
- *Reduced weight means better fuel economy; a 4 pound weight reduction may result in a 2-3 percent reduction in fleet fuel consumption. Aluminum naturally generates a protective oxide coating and is highly corrosion resistant*
- *Different types of surface treatment such as anodizing, painting or lacquering can further improve this property; it is particularly useful for applications where protection and conservation are required*

Major advantages that make aluminum extrusions such versatile and desirable products

Physical/Chemical Advantages of Aluminum

(characteristics of aluminum itself)

Lightweight
Strong
High Strength/weight ration
Resilient
Corrosion-Resistant
Heat-Conducting
Non-Toxic
Reflective
Electrically conducting
Non-Sparking
Non-Magnetic
Non-Combustible
Cold Strength

Product Advantages

(Characteristics of extruded aluminum products)

Attractive Appearance
Wide range of finishes
Virtually Seamless
Easy to fabricate
Joinable in many ways
Easy-assembly designs
Complex, integral shapes
Precise, close tolerances
Assured, uniform quality
Recyclable
Cost effective
Design Freedom

Aluminum Extruded Products

Aluminum extrusions really perform! Products made from aluminum extrusions deliver high performance not only in functionality but in cost as well. Light, strong, rust-proof, attractive, economical… aluminum extrusions offer the designer and manufacturer choices and combinations of useful characteristics unmatched by ay other material.

- Aluminum's light weight reduces shipping and handling costs.
- Aluminum has the strength for heavy duty applications
- High reflectivity assures aluminum applications in solar energy.
- Virtually seamless

Corrosion resistance makes aluminum the choice material for outdoor household uses.

- Attractive and esthetically pleasing in many product designs
- Aluminum extrusions are suitable for complex, integral shapes.