



SUSTAINABILITY

High School #9
Los Angeles, CA
Coop Himmelb(l)au/HMC

arcadia®

Our Philosophy and History

Arcadia Inc. began over 80 years ago with the creation of the Arcadia Inc. Sliding Glass Door. The merger of Northrop and Arcadia Inc. followed, during the second World War, resulting in an expanded sliding glass door line and the development of new products that have stood the test of time. Ongoing product development and enhancement, together with unmatched quality service, is why Arcadia Inc. remains a leader in the architectural aluminum products industry.

Arcadia Inc. has embraced bringing the pleasure of light into interior spaces while balancing thermal and visual comfort. By introducing innovative door and window technologies, Arcadia Inc. brings to buildings and their occupants a new sense of enjoyment of interior space, natural lighting, and aesthetic design.

Our distinctive doors, windows, framing systems, and related components are designed and manufactured according to stringent architectural requirements, including sound, building, and seismic codes. Our products are manufactured from superior alloys, built to the tightest tolerances, and finished to the highest standards.

BUILDING SUSTAINABILITY

ALUMINUM EXTRUSIONS - 40% - 50% RECYCLED

- 55% minimum post industrial scrap
- 5%-12% post consumer content
- Remaining % is prime aluminum

RECYCLED ALUMINUM

- Lightweight
- Reduced Freight Costs
- Reduced Labor Costs
- Ease of Installation

FINISHING

- In-house finishing facility recycles up to 50% of the water consumed in the process of anodizing aluminum.
- Over 1,350 tons of solid waste can be generated in a year from the anodizing line. This waste is now recycled, re-purposed, and redirected from landfills.

ACOUSTICAL PERFORMANCE

- Our acoustic wall systems, provided with the appropriate glazing meets the sounds transmission class rating determined in accordance with ASTM E413.

ARCADIA SUPPORTS:



- Going above & beyond standard building practice
- Referenced in other codes & ratings systems
- No Enforcement / No Inspection
- Voluntary



- Achieving a level above standard building practice
- Define achievement through a rating
- Inspection required
- Voluntary



- Defines standard building practice with code and enforcement at local municipality level
- It's the BUILDING CODE
- The 'LAW' for licensed architects & engineers
- Required



- Required building standards as set by state law
- Required

THERMAL, ARCHITECTURAL GRADE OPERABLE WINDOWS



DAYLIGHTING



HIGH-PERFORMANCE THERMAL PRODUCTS



USE OF RECYCLED ALUMINUM -

The weighted scrap content of our extrusions is approximately 47.9%





THE AMERICAN
INSTITUTE
OF ARCHITECTS

2030 COMMITMENT

Arcadia is committed in assisting the design professional to meet and exceed the energy reduction goals of the 2030 challenge. We apply the principles of sustainable design to every project from its inception through project completion, and uphold these principals during ongoing building operations.

EXECUTED

Arcadia Inc.'s Waste Reduction and Recycling Program

Both state and federal regulations require that generators of hazardous waste provide a description of the company's efforts undertaken, and progress in, minimizing the volume and toxicity of waste generated during the calendar year.

Passed in 1989 (SB 14), the State of California permits the Department of Toxic Substance Control (DTSC) to require that hazardous waste generators take a serious look at source reduction and recycling for methods of managing waste.

Over the past several years, Arcadia Inc.'s efforts have practically eliminated hazardous waste from being generated at its finishing and fabricating facility in Los Angeles, California. Also, any waste that is not classified as hazardous but would have the potential to contribute to local landfills is recycled when ever possible.

The anodizing (application of color and protective coating) of aluminum generates the majority of hazardous waste in the architectural aluminum manufacturing process.

In 1994, Arcadia Inc. installed a waste treatment system which treats and recycles industrial aqueous waste streams generated from anodizing aluminum extrusions. Prior to 1994, the waste streams generated by aluminum manufacturers' anodizing lines were simply neutralized and disposed of down the sewer line. From that point, the Sanitation Districts of Los Angeles would treat the waste stream and landfill the residuals.

Because of increasing costs and environmental concerns, Arcadia Inc. invested in an aqueous waste treatment system for the following reasons:

1. Reduce sewer charges levied on Arcadia Inc. by the Sanitation Districts of Los Angeles
2. Eliminate solid waste from being disposed of in local landfills
3. Reduce or remove the hazardous waste classification of wastes generated.
4. Recycle up to 50% of the water consumed in the process of anodizing aluminum
5. Increase the capacity of the anodizing line

Impact of Arcadia's Waste Reduction

The solid material removed from the waste stream by the treatment system is sold to a private company to supplement raw materials in the manufacturing of a market-rate product. This provides Arcadia Inc. an alternative to disposing a generated waste into a landfill.

The solid material, also known as filter cake, is aluminum hydroxide. It is then used to create a product called "liquid alum", which is primarily use by municipal water districts as a filtering aid in the settling of solids in drinking water reservoirs.

Over 1,350 tons of solid waste can be generated in a year from the anodizing line. This waste is now recycled, re-purposed, and redirected from landfills.

Additionally, the waste water treatment system has enabled Arcadia Inc. to reduce as much as 50% of its total water usage, and at the same time increase the capacity of production of its anodizing line.

Replacing hazardous chemicals with environmentally friendly products used in the process of anodizing has greatly reduced the amount of hazardous waste generated at our facility.

These are just some of the changes Arcadia Inc. has implemented over the past few years to reduce hazardous and non-hazardous waste at our manufacturing facilities.

COMMITTED



Arcadia... Is committed to achieving current local and state requirements for building sustainability.

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