

Beyond LEED Certification

LEED certification is just one step in taking sustainability from a concept to meaningful action.

Sustainability is based on the belief that new development must meet the needs of the present without compromising those of the future. Sustainability is measured in three interdependent dimensions: the environment, economics, and society—often referred to as the triple bottom line.

YKK President Tadahiro Yoshida was clearly in the vanguard of this philosophy in 1994 when he wrote the YKK Environmental Charter:

"It is a most important duty for all mankind that we preserve the abundantly endowed global environment and that we transfer it to the next generation in sound condition. Striving to be an earth-friendly company, YKK Group proclaims that we will address and promote 'harmony with the environment' as the highest priority of our business activity."

YKK AP constantly endeavors to better our performance in honoring that pledge. We're proud that our products greatly enhance the energy efficiency of buildings and improve comfort for their occupants.

All YKK AP products are created in facilities that are models of energy efficiency and environmental responsibility. YKK AP's U.S. manufacturing plant in Dublin, Georgia, is ISO 14001 certified and has a 73% recycling rate. The plant:

- recycles 100% of aluminum waste on-site
- has reduced the amount of other waste materials sent to the landfill by 40%
- uses regenerative burners to save 50% on the melting/casting operation's fuel consumption
- uses state-of-the art techniques for waste water treatment

YKK AP is a Resource For You

All YKK AP sales representatives are required to obtain a Construction Documents Technologist Certificate, as administered by the Construction Specifications Institute (CSI). They are eager to assist you in meeting LEED prerequisites and performance benchmarks. These field professionals, supported by our LEED Accredited Professional, are well positioned to help you evaluate each product's potential contribution to LEED credits. For assistance or product information, please contact your local YKK AP sales representative.



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YKK AP America Inc.
7680 The Bluffs, Suite 100
Austell, GA 30168
1-800-955-9551
www.ykkapsustains.com



One Crescent Center, Philadelphia

> Quality Sustains

Planning a green building? YKK AP® can help.

Entrances | Storefronts | Window Wall | Curtain Wall | Operable Windows | Sliding Doors

Sustainable Building Envelopes

Architects, builders and developers of commercial buildings are embracing "green" design—best practices for design and construction that significantly reduce or eliminate negative effects of buildings on the environment and occupants.

Architectural products from YKK AP are always a smart choice for green buildings. YKK AP is a leading resource for quality materials used in commercial buildings designed and constructed for LEED® certification. We offer a wide selection of energy-efficient, thermally-broken products, as well as custom-crafted solutions for high performance green buildings.

With YKK AP, you have a dedicated partner in green building design and sustainability. We work with you to create innovative, high quality architectural systems that add to the strength, energy efficiency and longevity of the building envelope, including:

- entrances
- storefronts
- window wall
- curtain wall
- operable windows
- sliding doors
- sunshades



ThermaShade™ helps to reduce solar heat gain.

The School of The Future, Philadelphia

LEED Certification of Your Green Building

YKK AP professionals assist architects, developers and builders in gaining LEED certification of their building designs. LEED (Leadership in Energy and Environmental Design) is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings.

In its ongoing efforts to define what constitutes a "green building," the U.S. Green Building Council (USGBC) has published a portfolio of LEED certification rating systems for different types of buildings. These include new commercial construction and major renovation, core and shell development, and schools.



How We Can Help

Materials & Resources

To ensure product quality, consistency, and integrity, YKK AP produces our own aluminum alloy. Our products contain a minimum 20% by weight of pre-consumer recycled aluminum—always from internal processes to maintain our high quality.

(It should be noted that no architectural aluminum products, regardless of manufacturer, qualify for local/regional raw material credits under the new LEED-NC 2.2 rating system. All materials or products must have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site. Architectural aluminum's main ingredient is bauxite ore, and there are no bauxite mines in the United States.)

The aluminum content of YKK AP products is recoverable at the end of their useful life. While this does not currently earn LEED points, it further supports best practices in green design.

This brochure explains in broad terms how commercial fenestration systems from YKK AP may help architects and builders meet key parts of the USGBC's LEED-NC (new construction) rating system. Most of this material is also applicable to other rating systems, such as LEED-CS (core and shell development), and LEED for Schools rating systems.

Architectural products from YKK AP address three of the five LEED-NC categories of prerequisites and credits: Energy & Atmosphere, Materials & Resources, and Indoor Environmental Quality.



Twelve Hotel, Atlanta

Energy & Atmosphere

To reduce energy consumption and improve indoor environmental quality, YKK AP offers a full line of thermally broken glazing systems and operable windows. Many of our systems are also ideal for interior applications to reduce the need for artificial lighting.

Our MegaTherm® systems, which use a unique polymer to join two separate extrusions into one thermally broken frame, save energy and reduce condensation. Our patented ThermaBond Plus™ thermal break solves the dry shrinkage problems that commonly occur with poured-and-debrided systems. The patent-pending ThermaShade™ sunshade system, the industry's only sunshade with a thermal barrier, helps reduce solar heat gain and improves the thermal performance of the building envelope.

Indoor Environmental Quality

Architects can introduce views and available daylight with YKK AP's complete line of architectural aluminum glazing systems—13 storefront systems, 12 window wall systems, 12 curtain wall systems, five sliding glass doors, seven entrance door designs, and a slope glaze system. In addition to introducing daylight, 10 operable window systems enable natural ventilation in lieu of comfort controls. These systems, along with the thermal barriers in many YKK AP products, can greatly improve comfort for building occupants, connect them with the outdoors, and decrease the use of HVAC systems.



Findlay Market, Cincinnati