

CASE STUDY

THE KENDEDA BUILDING FOR INNOVATIVE SUSTAINABLE DESIGN





The Kendeda Building for Innovative Sustainable Design is the first building in Georgia to receive the Living Building Challenge (LBC) certification – a globally renowned and comprehensive green building certification, which only 32 buildings in the world have secured.

Setting a new standard for sustainability, The Kendeda Building serves to inspire a connection between people and nature, encouraging the community to give back more to the environment than they take.

Architects: Lord Aeck Sargent, Atlanta, GA, and The Miller Hull Partnership, LLP, Seattle, WA
Glazing Contractor: Crown Corr, Inc., Lithia Springs, GA
General Contractor: Skanska USA, Atlanta, GA

Photography: © Jonathan Hillyer



SETTING THE STANDARD FOR SUSTAINABLE DESIGN

The Kendeda Building was created to foster environmental education and research while providing a public forum for community outreach, aiming to set the standards for buildings in the surrounding area.

The Kendeda Building achieves net-positive results for energy and water over the course of each year. The mission of this multi-disciplinary project is to prove that regenerative buildings – an architectural design style that mimics the restorative aspects found in nature – can be successfully designed, constructed and operated.

A MODEL OF SUSTAINABLE CONSTRUCTION

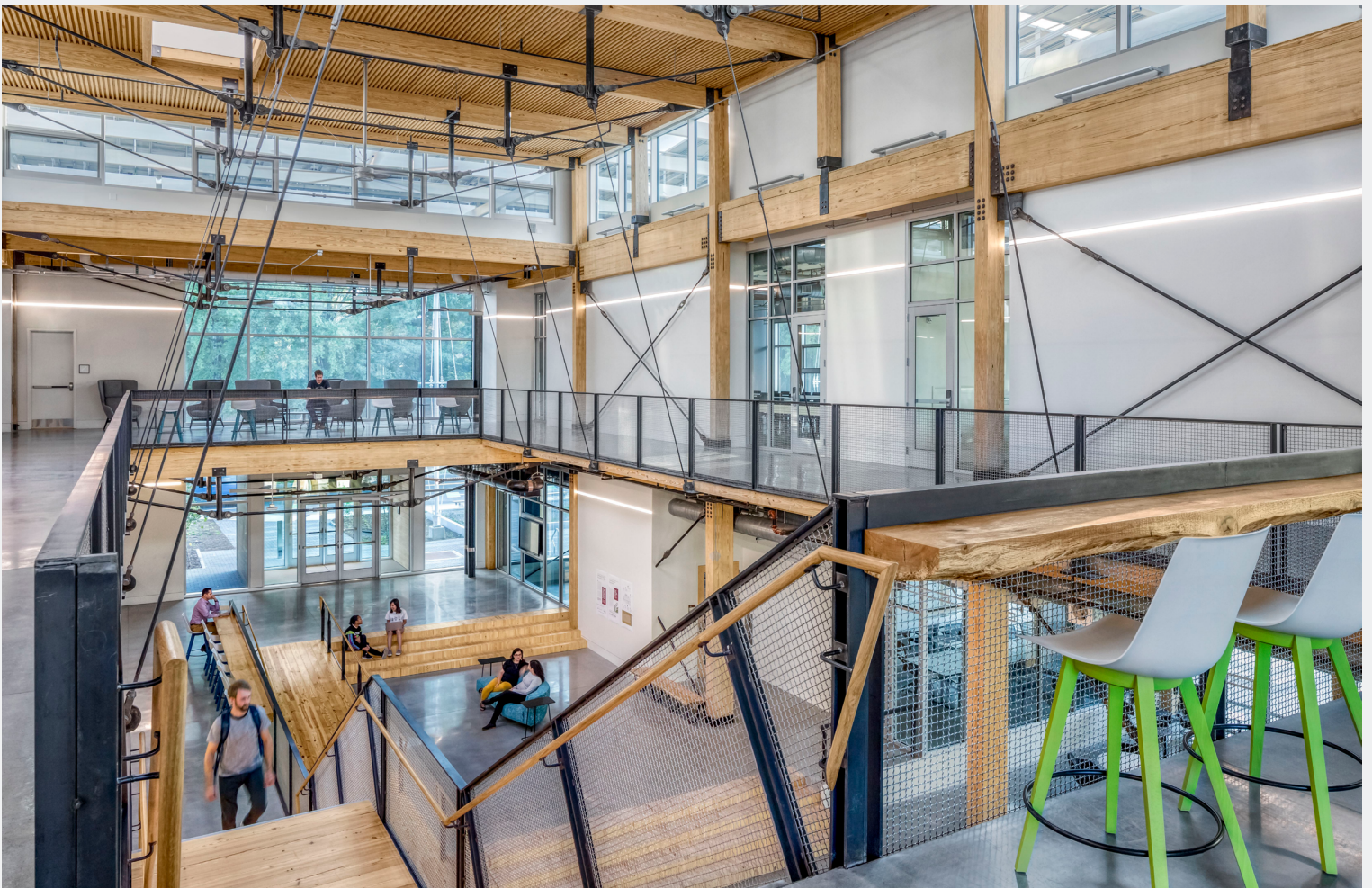
To help benefit the regional economy, at least 50% of the project's materials and services were sourced from within 621 miles of the site. The construction diverted more waste from the landfill than sent to the landfill using salvaged materials.

In an effort to prioritize the health and well-being of its occupants, The Kendeda Building was designed to provide students and teachers with an environment that positively influences mood, productivity and academic performance. Kawneer delivered architectural aluminum systems that offer thermal performance and durability while allowing natural light and uninterrupted views.

Kawneer's AA®250 Thermal Entrances and AA®6400 Thermal Windows were specified to help give the architects ultimate design flexibility for optimizing occupant comfort, energy savings and structural performance promoting sustainability and condensation resistance.

THE LIVING BUILDING CHALLENGE

The Kendeda Building received the Living Building Challenge (LBC) certification, the world's most ambitious and holistic green building achievement. Kawneer is a proud sponsor of the International Living Futures Institute (ILFI), the organization that developed and promotes the LBC and has partnered with the ILFI to create Declare labels for many of our products.



CHALLENGES

- The main goal of the project was to construct the greenest classroom building in the United States.
- Prioritizing occupant health and happiness, as well as helping to inspire students and teachers with an environment that positively influences mood, productivity and academic performance was essential.
- The design team wanted to demonstrate the sustainable values being promoted by the university building's staff through the building itself.
- Incorporating architectural aluminum framing systems that offer high thermal performance and durability while allowing natural light and uninterrupted views was necessary for the project.
- Meeting the requirements of the Living Building Challenge, the world's most rigorous performance sustainability certification standard for buildings, was a key driver for the building's sustainable design and features.



SOLUTIONS

- Kawneer's high-performing, energy-efficient architectural aluminum systems support the design team's green goals and demonstrate, in practice, the sustainable values being promoted by the building's staff.
- The combination of Kawneer's high-performing windows, entrances and curtain wall systems help deliver natural light into the building and offers occupants inspiring views, as well as an optimal environment for academic success.
- Kawneer's thermal and ultra-thermal products help maintain an ideal interior temperature for students and teachers to learn, work productively and destress, as well as minimize the distraction of outside noise.
- Kawneer's GLASSvent® UT Windows offer ultra-thermal performance to help optimize occupant comfort, energy savings and structural performance, as well as promote sustainability.
- The use of sustainable, high-performing building products allowed The Kendeda Building to become the first building in the state of Georgia and the 28th building in the world to receive the Living Building Challenge (LBC) certification – a globally renowned and comprehensive green building standard.

PRODUCTS USED

- 1600UT System™1 Curtain Wall
- AA®6400 Thermal Windows
- GLASSvent® UT (Ultra Thermal) Windows
- Versoleil® SunShade – Outrigger System – for Curtain Wall
- 350 Medium Stile Entrances
- AA®250 Thermal Entrances