

Fred D. Brown, Jr. Residence Hall Leads the Way on UT Knoxville Campus

In addition to the customized, single-source panels, the façade of the building features over 100,000 square feet of brick rain screen.



Fred D. Brown, Jr. Residence Hall on the University of Tennessee Knoxville campus is setting several firsts. It's the first new residence hall since 1967 and the first building on the UT campus to be named for an African-American. The new residence hall, on Andy Holt Avenue at the corner of Melrose Avenue, will house 700 undergraduate men and women in two-person suites and four-person super suites.

UT administration saw the need to modernize the facilities for students. The goal was to give students what they want—more privacy, more residential style. Creating that feel in a high rise is a challenge. The university also has an aggressive timeline—a five-year completion, by 2019.

The KarrierPanel™ barrier wall system was selected to help meet that aggressive timeline. Because the KarrierPanel™ system is a single-component solution, installation time is reduced by as much as 50 percent over standard multi-part site-assembled built-up cladding. Increasing the speed of construction, minimizing delays, and reducing the number of trades required for installation are great benefits to the deadline-driven needs of the project.

Additional plans include tearing down North Carrick, South Carrick, Humes, Reese, Morrill and the Apartment Residence Hall and replacing them with three to four level buildings in a village-style community.

"It's an incredibly bold time line. It's a five-year time frame, and when you look around and see what that means, that is aggressive. But the University thinks it's important that the project is done quickly for the good of the students, for their success, for their retention. To not do that would be an opportunity missed," said Rich Schoenberg, director of installation with Unified Building Systems.

The insulated panels provide excellent thermal performance with high R-value and airtightness along with an air, water and vapor barrier. With the goal of trying to create a comfortable atmosphere for such a diverse group of people, being able to maximize thermal performance and minimize energy costs are critical requirements.

In addition to the customized, single-source panels, the façade of the building features over 100,000 square feet of brick rainscreen. The traditional method requires brick ties to be anchored to the substrate prior to the insulation being applied. Those ties can create a direct thermal path through the insulating layer reducing the overall performance.

A key feature of KarrierPanel™ barrier wall is the brick ties provided. These stable and secure brick ties are designed in conjunction with KarrierPanel™ and transmit positive loads from the brick facades to the structure supports behind the insulated panel. The ties are installed during the panel installation eliminating any additional cutting or adjustments to the insulation.

“The beauty of the KarrierRail™ system is it allows us to create a state-of-the-art, sustainable building while complementing the architectural style and look of the existing buildings on campus,” stated Schoenberg. “The barrier wall system’s exterior skins contain a substantial



amount of recycled content, and the panels themselves are recyclable making the system an environmentally conscious choice as well.”

The layout includes two distinctive types of living units designed into a pod arrangement to create more of a community while still imparting a homier feel. The suites are double occupancy rooms with a shared bathroom. The super suites are arranged similarly, but connect to a common living room and shared bathroom.

Several UT Knoxville facilities are being renamed as they transition to new uses. All of the names approved will honor families or individuals who have made a significant contribution to the university and its history.

The new Fred D. Brown, Jr. Residence Hall is designed to meet the State of Tennessee Sustainability Design Guidelines.

For further information please contact:
Tel: (386) 626-6789 **Email:** info.us@kingspanpanels.com



Kingspan Insulated Panels North America
Telephone: (386) 626-6789 Fax: (386) 626-6883 Email: info.us@kingspanpanels.com

Based in DeLand, Florida, Kingspan Insulated Panels North America is a global leader in the manufacturing of insulated metal panels (IMPs). The panels are a significant first step to achieving net-zero energy status and contribute to earning U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED®) credits. To learn more, visit either www.KingspanPanels.us or www.KingspanPanels.ca.