

# PROJECT PROFILE

## Auburn University

### Resident Experts:

#### **Metro Waterproofing & CCW Seal New Dorm at Auburn University Montgomery**

Auburn University Montgomery (AUM) has a growing future. Founded in 1967, the 500-acre metropolitan campus, located seven miles east of the Alabama state capitol, started with fewer than 600 students. Forty years later, it boasts nearly 6,000 students.

With the university's strategic emphasis on recruitment of out-of-state students and expanding partnerships with other universities across the globe, planners expect campus population will top 8,000 students in the next few years. And with that, the need for more residence hall space is expected to explode.

Campus housing has been at capacity the past two fall semesters. Officials are breathing a sigh of relief as Warhawk Hall, the \$30 million, 144,740-square-foot new residence hall, is on schedule to open in the fall of 2013.

That fall completion date meant contractors like Brad Ramey wanted products that allowed them to stay on schedule. In March, B. L. Harbert International turned over the sheathing-wrapped, metal stud building to Ramey's company, Metro Waterproofing. Their job was to install a watertight solution for nearly 50,000 square feet of the U-shaped floor plan. Previous success using Fire Resist™ Barritech VP™ by Carlisle Coatings & Waterproofing (CCW), led Ramey to choose it for this project.

Fire Resist Barritech VP is a fluid-applied membrane made from naturally fire-resistant materials, a big consideration for residence halls like Warhawk Hall. Fire Resist Barritech VP is applied to exterior wall assemblies where it functions as an air- and water-resistive barrier. Fire Resist Barritech VP is vapor permeable and can be applied over concrete block, concrete, exterior gypsum sheathing, plywood, OSB and many other common building materials. Its high film thickness and flexible, elastic properties enable Fire Resist Barritech VP to bridge cracks and seal around penetrations, creating a continuous, monolithic air and water barrier.

"We'd had success on earlier projects using Fire Resist Barritech VP," Ramey said. "We liked that the product is water-based, which allowed for easy cleaning, and did not stop up our spray rigs. The five-story building site included large open spaces with surrounding operational roads and parking lots. Barritech VP's consistency and design doesn't allow for a large overspray, which eliminated the fear of the material carrying over onto cars and pedestrians. Additionally, the easy spray application allowed us to stay ahead of the game and not affect the critical path of the project."

Metro Waterproofing sprayed vertical surfaces with Barritech VP in two passes creating a 60-wet-mil-thick membrane throughout most of the building. Their crew rolled the product along the roof line and parapet soffit. In addition, they rolled corners and door openings 30 mils thick with Barritech VP, sealed gaps using CCW LiquiFiber™, and then rolled another 30-mil-thick layer of Barritech VP.

### Auburn University at a Glance

#### **Location:**

Montgomery, AL

#### **Architect:**

William Blackstock

#### **Carlisle Coatings & Waterproofing Contractor:**

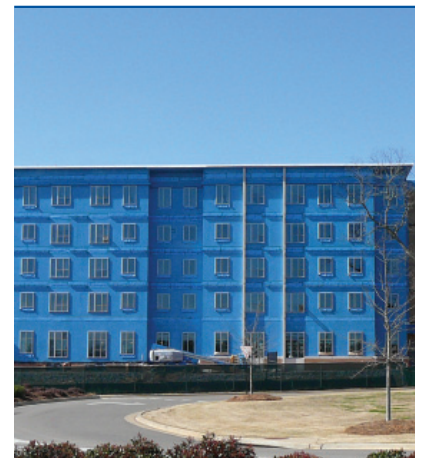
Metro Waterproofing, Inc.

#### **Project Type:**

New Construction

#### **Carlisle Coatings & Waterproofing Products:**

- Fire Resist Barritech VP
- LiquiFiber
- CCW-705
- CCW LM-800XLCCW-705



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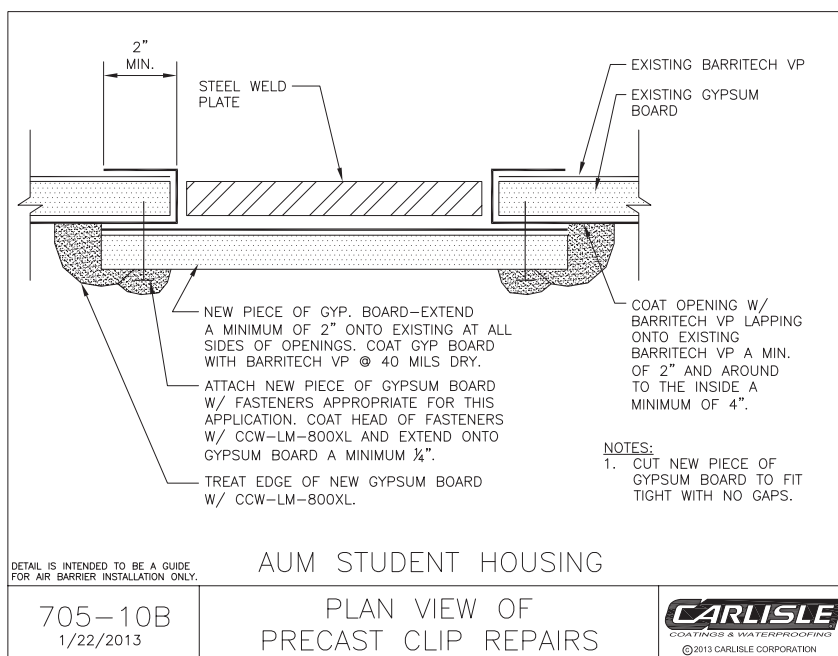
CCW LiquiFiber consists of randomly oriented glass strands that form cohesive mats with a water-soluble binder. LiquiFiber is laid into a wet layer of CCW liquid-applied membrane so that the binder dissolves and the glass strands become fully integrated with the membrane. Upon cure, the CCW membrane that is reinforced with LiquiFiber exhibits higher multi-axial tensile strength and tear resistance than typical sheet membrane products.

Steel shelf angles with deflection joints as well as cast stone patches presented Metro Waterproofing with the challenge of how to keep the continuous air barrier intact. To solve the problem, Ramey worked with CCW technical service technicians who provided customized details that ensured the integrity of the watertight system while also maintaining the product warranty.

"Steel shelf angles with deflection joints were remedied by spanning CCW-705 with a bellow at the joint," Ramey said. "Later in the project we were faced with having to patch some openings where the cast stone fastened to the wall. Carlisle technical service technicians also provided custom detail solutions to this problem and we repaired the openings from the interior of the building while maintaining the watertight seal."

CCW-705 Air & Vapor Barrier is a 40-mil-thick, self-adhering membrane consisting of a tough, cross-laminated HDPE film fully coated with polymer-modified asphalt adhesive. The membrane has a disposable silicone paper release liner that is removed during a peel-and-stick application. It can be applied to diverse substrates like concrete block, gypsum sheathing, plywood and OSB.

Thanks to the experts at Metro Waterproofing and the technical team at Carlisle Coatings & Waterproofing, a watertight, energy-efficient Warhawk Hall is on schedule to welcome students in September.



CCW's Technical Service professionals are always available to create customized details. They know one size doesn't fit all.