

Southern State Community College

Mount Orab, Ohio

Construction Manager At Risk

Quandel Construction Group, Inc.

As the first building on Southern State Community College's new Brown County campus, the facility strives to raise the bar on design and be a source of pride for the College and surrounding community by serving as an iconic and modern building with a strong presence. All spaces were planned to encourage student and faculty interaction, accountability, and trust. Technology-rich learning environments include general classrooms and laboratories, as well as a learning commons.

The building includes a two-story main building lobby where a Help Desk and lounge space create a welcoming and energetic atmosphere upon entering the new facility. Accessed directly off of this lobby are the campus' "One Stop Shop" spaces, which provide students a convenient access to staff providing financial aid assistance, registration support, and other services critical to providing a first class educational experience.

A spacious community room offers both the College and the Brown County community a new venue for large events and gatherings, while also providing an opportunity for this space to be used as an additional large classroom in the event the expected growth of Southern State's new campus is realized even sooner than anticipated. A bookstore, dedicated student lounge, centrally-located tutoring rooms, open and closed study areas, faculty offices, and administrative offices are also included in the new facility.



Photos Courtesy of J.E. Evans Photography

Product Information

Building Envelope: Belden Brick Company, Synergy, Accel-E Wall System

Roofing: Johns Manville

Windows, Curtain Wall, Entrances & Storefronts: Tubelight

Flooring: Mannington *Interior:* GlasRoc *Lighting:* Acuity *Elevator:* Otis



Project General Description

Location: Mount Orab, Ohio

Date Bid: July 2013 **Construction Period:** July 2013 to July 2014

Total Square Feet: 43,833 **Site:** 71 acres.

Number of Buildings: One; 20 classrooms, seating 937.

Building Sizes: First floor, 25,380; second floor, 18,453; total, 43,833 square feet.

Building Height: First floor, 13'; second floor, 13' 1 1/2"; total, 26' 1 1/2".

Basic Construction Type: New.

Foundation: Cast-in-place, reinforced concrete, slab-on-grade.

Exterior Walls: Brick, curtain wall, Accel-E system. **Floors:** Concrete.

Roof: Membrane. **Interior Walls:** Metal stud drywall.

SYNTHEON ACCEL-E Wall System Helps to Meet Aggressive Time Schedule for New Campus

When ground was broken for Southern State Community College's new campus in Brown County, Ohio it seemed unlikely that the facility would be completed in less than one year and ready to welcome its fall semester of students.

Southern State's expansion project has been several years in the making. In 2010, the college ordered a complete facilities' assessment. The study revealed that a significant investment would be needed to bring one of the campus locations up to current standards, which led to the decision to pursue a replacement campus in Brown County.

The college desired the expansion project to be ready for its fall semester but realized that completion date was very aggressive.

A traditional stud framing system was chosen for the project, however Quandel Construction Group had become familiar with a better system that would meet the aggressive schedule perfectly. "We attended a Lunch and Learn session by SYNTHÉON on ACCEL-E and knew this would be a perfect fit for this project," said Kevin Apling, vice president of Quandel. "We talked with the owner and the architect, and suggested specifying the system for its weather tightness, exceptional thermal performance and it being an all-inclusive product that was easy and fast to install."

The decision was made to switch to the ACCEL-E system from the traditional stud framing and insulation system.

Combs Interior Specialties, Inc. of Fairborn, Ohio was the successful bidder and was chosen to install the ACCEL-E system. Joshua Turner, senior estimator of Combs knew of the ACCEL-E system and its benefits and knew the system would be a perfect fit for this project. "We knew using ACCEL-E would help with the aggressive time schedule and also enclose the building for winter that was fast approaching," said Turner.

The SYNTHÉON ACCEL-E Steel Thermal Efficient Panel wall system combines framing and insulation. ACCEL-E improves the way exterior walls are built by reducing framing and insulating processes down to one step. The panels are lightweight and easy-to-install. The panels combine the strength of cold-formed steel framing with the insulation properties of expanded polystyrene (EPS).

Combs Interior Specialties installed approximately 80 panels. The panels were the standard size of 4 ft. by 27 ft.

"I liked the fact we were able to stand up multiple floors of wall in one step, thus saving time and money," said Turner. Apling of Quandel added,



The ACCEL-E wall system combines framing and insulation to one step. The panels combine the strength of cold-formed steel framing with the insulation properties of EPS.



Combs Interior Specialties installed 18,500 square feet of ACCEL-E panels, approximately 80 panels.

"I really liked the ease of construction. Plus there was no need for large equipment to install,"

ACCEL-E enables buildings to get dried-in faster, allowing trades to commence work sooner. Panels arrive on the jobsite engineered and fabricated for a given project with pre-cuts for windows and doors. The system features an open cavity and pre-punched knockout slots into the studs, which provides easy access for plumbers, electricians and HVAC contractors.

The ACCEL-E wall system meets IECC energy codes requiring continuous insulation for thermal performance. The panels are non-toxic and safe – they contain no Chlorofluorocarbons (CFCs), Hydrofluorocarbons (HCFCs) or VOCs and are certified for Indoor Air Quality by the GREENGUARD®. GREENGUARD Certification is part of UL Environment, a business unit of UL (Underwriters Laboratories).

The new campus is a 2-story, 50,000-square-foot building that includes a community room, bookstore, learning commons, multi-purpose classrooms, science labs, nursing labs, and HVAC technology labs. In addition to its slate of core college courses, the new campus also will offer programs in Human & Social Services (Chemical Dependency), Business Management, Accounting, Entrepreneurship, Computer Generalist, Interactive Media and Simulation, Cyber Security and Forensics, Practical Nursing, and HVAC.

"It's amazing how well this project came together; it's almost like it was meant to be," said Mt. Orab Mayor Bruce Lunsford. "The quality this campus is going to put out is what's really important for the future of this area, not only in Mt. Orab but all of Brown County and southern Ohio. We're very happy to welcome Southern State. What it's going to do for the future of people in this area is very exciting."

Joshua Turner and Kevin Apling are proud of how well the project turned out and they would use ACCEL-E again. "I would absolutely use ACCEL-E again and would recommend it to others," noted Apling. "We are currently going to use the system on another project in Michigan."

About SYNTHÉON Inc. (www.syntheoninc.com) SYNTHÉON serves the building and construction industry for advanced high-efficiency products and services designed to change the way buildings are built and experienced. The North American Division based in Pittsburgh, PA features the ACCEL-E Wall System and the ELEMIX Concrete Additive.