

SUMMERFIELD ELEMENTARY SCHOOL

7501 Summerfield Rd, Summerfield NC 27358

Completed: 2011

Project Size: 97,917 sq ft

Project Cost: \$17,950,000

Owner: Guilford County Schools

Architect: McKissick Associates Architects

PRESERVING HISTORY WHILE BUILDING FOR THE FUTURE

The 8.8 acre site of this elementary school reconstruction consisted of 21 buildings built between 1940 and 1985, including 14 modular classrooms. Located in the town's historic overlay district—including a Daughters of the American Revolution (DAR) memorial, a Work Progress Administration (WPA) gymnasium, and a Revolutionary War battlefield—the Guilford County School District wanted to preserve existing historical buildings while creating a more secure environment that would allow for future expansion. A variety of concrete products were used to enhance sustainability, efficiency, fire safety, and allow for a fast-paced construction schedule.

01. High-performing ICF envelope.

The multi-story classroom building was constructed using ICFs. Walls were formed with snap-together hollow insulating foam cubes—then concrete was pumped into the 8-inch-thick center to create the solid wall.

02. Historical wood clapboard look-alike.

Although the classroom building's outside walls look like the wood siding on the historical gymnasium, the planks are actually made of concrete, and are impervious to water and insects, with a 50-plus year lifespan.

03. Sustainability initiatives.

The building's designers wanted a "green" environment for the school, using post-industrial fly ash in the precast concrete floor planks and foundations, plus an underground cistern to collect roof water for fire protection and irrigation.



BUILD WITH STRENGTH

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CAROLINAS**