

GLASGOW HIGH SCHOOL

Glasgow, KY

Completed: 2012

Project Size: 180,000-square-feet

Architect: Sherman Carter Barnhart

ICF System: Fox Blocks

SCHOOL IS IN SESSION SOONER WITH ICF CONSTRUCTION

The Glasgow High School is a 180,000-square-foot building with many sustainable elements. From the time the footers were poured in April 2011 until the school opened in August 2012, the project was constructed on schedule despite the seemingly constant rain.

01. Quick Construction.

Total construction lasted 420 days, with 70 days start to finish devoted to ICF installation and concrete placing. Installation was shared between two different installers due to the project schedule, indicating the ease of installation and workflow of ICF systems.

02. Setting the Standard.

The project team met the challenge: achieving a timeless aesthetic with balancing modern energy efficiency. All combined, the building earned LEED certification, with a level of craftsmanship that pleased the owner.

03. Modern Energy Efficiency.

Technologies such as rigid roof insulation, a white TPO single-ply roof system to reduce solar heat gain, and solar tubes were installed in corridors and interior classrooms. Bringing daylighting into these spaces was a major design consideration and was balanced with sensors that adjust the artificial lighting based on both the amount of natural daylight and occupancy needs. Building with 31,000 square feet of 8-inch and 12-inch ICFs was also a key factor in meeting energy and design goals, especially since windows were large and plentiful, including a 52-foot-radius wall with numerous arched openings and windows 30 feet high.