



CASE STUDY
NORTHWOOD ACADEMY UPPER SCHOOL





NORTHWOOD ACADEMY UPPER SCHOOL, SUMMERVILLE, SC

A metal building system with a metal roof was used to build Northwood Academy Upper School in the Carnes Crossroads community. The school is on a 40-acre campus with an athletic field and church. It is phase one of a two-phase project; phase two will include Northwood Academy Lower School. Upper School is oriented along several axes to maximize space on the site and coordinate with the church and Lower School.

Trident Construction LLC erected American Buildings Co.'s metal building system and installed 58,000 square feet of its standing seam roof system in Evergreen and Galvalume for the project.

Upper School is attended by students in grades 6-12. It houses 23 classrooms, administrative and office spaces, a cafeteria, computer lab, media room, gymnasium and locker rooms. Construction of Upper School began in May 2015 and was completed in July 2016.



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As an ISO 14001 certified manufacturer, ABC is dedicated to protecting our environment and reducing waste. All four ABC divisions have achieved accreditation under the International Accreditation Service (IAS) AC472 Inspection Program for Manufacturers of Metal Building Systems. Every ABC teammate is responsible for environmental protection, and we also require contractors, vendors and suppliers to comply with applicable environmental laws.

Metal building systems are the poster child for sustainability and “green,” as steel is the most recycled material on the planet. Nucor typically recycles 22 million tons of scrap annually, including 9 million cars. Recycled steel reduces mining waste by 97%, air pollution by 86% and water pollution by 76%. Producing steel through recycling also uses significantly less energy than conventional steel making. In fact, the energy Nucor saves through recycling compared to conventional steel production is enough to power Los Angeles for 8 years. The typical ABC building is manufactured from at least 70% recycled steel. To top that, at the end of its useful life, 100% of an American building can be recycled into a variety of steel products, including new cars, appliances, buildings and bridges.

ABC was the first metal building manufacturer in North America to switch to 100% “cool” paint systems as standard, with no up-charge, for all roof and wall panels. This environmentally friendly cool technology was originally developed for stealth aircraft in the U.S. Military. These coatings help generate lower environmental temperatures, reducing smog and the heat island effect. What’s more, they help reduce cooling costs in hot summer months.



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