

Southport College: Powered by Metrotile Photovoltaic System Powers College Science Block

Over the past decade, Southport College has maintained a program of roof maintenance, converting their flat roofs to pitched. In 2010 they opted to convert the science block, but wanting to take advantage of what would become a south-facing roof slope, they chose modern materials to reduce their carbon footprint, save on energy costs and enjoy the benefits of a low maintenance, long-lasting solution. Following several design meetings arranged by principal contractor Alpha Roofing, and involving the supply chain, estates manager and CDM coordinator, Metrotile Lightweight Roofing were chosen to supply both their stone coated steel roof tiles and a 10KW photovoltaic system that would be installed to feed energy back into the national grid. Work began at the start of the school summer holidays, with the initial phases involving scaffolding and the installation of a steel frame that would convert the flat roof to a pitch. By the end of the summer break, the roof covering was complete and the PV system ready to go online; providing the college a durable, lightweight system that would offer a number of environmental and cost benefits for decades to come. Given the strict time frame for completion, Metrotile were considered the ideal supplier; the photovoltaic panel is integrated into the profile, making installation as easy, and quick, as installing one of our standard roof tiles. This allowed for efficient planning at the design stage and resulted in the project being completed for the start of the new school term.



POLYCRYSTALLINE PV CELLS



JUNCTION BOX, CABLES AND MULTIPOINT
PLUG AND PLAY CONNECTORS



INTEGRATED PV AND TILE SYSTEM



metrotile
LIGHTWEIGHT ROOFING

metrotile
Photovoltaic System