



CASE STUDY

Fife Learning Campus

Lighting a pathway to Net Zero at Fife Learning Campus

Fife College's new Learning Campus in Dunfermline is Scotland's first net zero college, and an example of the Scottish Government's Net Zero Public Sector Buildings (NZPSB) standard.

As a supplier of educational lighting and a manufacturer of low carbon solutions, Whitecroft Lighting was invited to a workshop by project developer Balfour Beatty to optimise its net zero solution.

Whitecroft was in the early stages of developing Geopak™, aiming to eliminate single use plastic and implement GPS tagging in its packaging of luminaires to major projects. It was invited to trial the solution for the Fife College Project.



£6K

SAVED IN WASTE MANAGEMENT
ON SITE

100K

CARDBOARD CARTONS
REMOVED FROM THE SUPPLY
CHAIN

2 tonnes

OF PACKAGING WILL BE
ELIMINATED OVER THE LIFE OF
THE PROJECT



The solution

Developed with Cardiff University and consultants PDR, Geopak™ is a reusable packaging system employing standardised “totes” into which lighting products are packed. The totes accommodate mixed product types but can be neatly packed into pallet boxes for efficient use of space during delivery.

Made from recycled polypropylene, the Geopak™ modules can be reused a minimum of 12 times, while the bigger pallet boxes reduce the need for single use plastic wrapping. The modules, which have GPS trackers, are easy to collapse and store until collected for reuse.

Geopak™ debuted at Fife College Project and Balfour Beatty estimates that two tonnes of packaging waste will be eliminated during the Campus project.

Key facts

Project Name	Fife’s College Learning Campus
Location	Dunfermline
Client	Balfour Beatty
Contractor	Forth Electrical Services (FES),
Estimated project completion	April 2025