

ACTIS INSULATION HELPS LOCAL PRIMARY IN ITS QUEST TO BECOME UK'S FIRST CARBON NEUTRAL SCHOOL

“ACTIS insulation helps reduce energy consumption by approximately 60%”



ACTIS Multifoil insulation being installed at St. Peter's School (left). Head Teacher Simon Temple (right).

St. Peter's School is a Victorian-built primary school in Aylesford, Kent. Erected in 1836, the school educates children aged four to eleven and in 2009 decided, as part of a School House Challenge, to set itself the target of becoming the UK's first carbon neutral school. At the heart of this initiative is the school's belief that it should take responsibility for its own impact on the environment, both locally and globally, whilst at the same time encouraging its children to take on their own individual ecological responsibilities.

The project worked practically through the involvement of the School Council, who met to discuss new plans and initiatives to reduce the school's environmental impact, which were in turn relayed to the children to debate. The children then conducted experiments to determine the best course of action.

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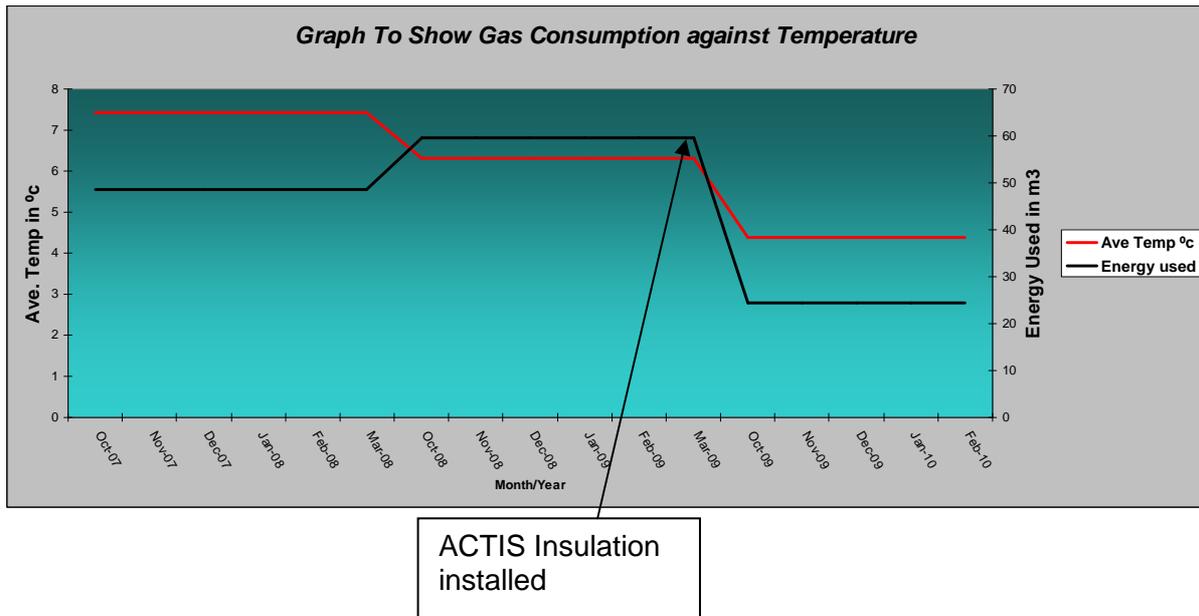
Throughout the school, the children have been split into two groups to conduct the project, 'Power Rangers' and 'Eco-Warriors' and are assigned tasks to reduce the overall environmental impact of the school. The Power Rangers are responsible for ensuring that all electrical equipment is switched off when not used, while the Eco-Warriors work tirelessly to recycle all materials used by the school.

One of the first areas that St. Peter's looked at as part of the project, were ways to make their school more energy efficient, which included examining how the building was insulated. The children were asked to conduct an experiment in which they filled Ribena cartons with hot water, wrapped them in a variety of insulation products and measured which product performed best at retaining heat. As a result of these experiments, ACTIS Insulation was approached with the view to using its TRISO-SUPER 10 multifoil insulation to support the project.

There were a number of benefits to using ACTIS multifoil. Firstly, from an environmental perspective, the thermal performance of ACTIS' TRISO-SUPER 10 provides the same insulation benefits as mineral wool products up to 210mm thick.* Furthermore, with St. Peter's being a intricately designed Victorian school, there were installation challenges that could only be met by using a thin insulation.

In other areas of the school, ACTIS combined the TRISO-SUPER 10 multifoil with its natural wood fibre insulation SYLVACTIS. This enabled exceptional thermal performance in the most environmentally responsible way.

To measure the thermal efficiency of the ACTIS insulation, St. Peter's measured the year-on-year energy consumption of the school. Before the installation of TS10, it found that between winter 07/08 and winter 08/09 there was an approximate 15% drop in temperature, with an approximate 18.5% increase in gas consumption. TRISO-SUPER 10 was installed at the school between March and October 2009, and it was found that although there was an approximate 31% drop in temperature during this period, gas consumption was reduced by approximately 60%¹.



N.B average temperature readings have been taken in six monthly cycles.

Beyond the obvious benefit to the children of having such an environmentally responsible school, it is thought that the project could have a range of additional benefits which will ensure that other schools and businesses use St. Peter's as an operational model in the years to come. By demonstrating that it can implement these changes despite a host of challenges, including the age of the structures, and its diversity of functions, it is hoped that it will become a yardstick for other organizations that will become increasingly pressured to think about their energy efficiency by the government.

Head Teacher Simon Temple said: "We're still in the early stages, but have a clear strategy to reduce, reuse and recycle throughout the school while using renewable sources to power, heat and light the building. I want to show that if we can achieve this target, others can follow suit."

Mark Cooper, Project Manager, ACTIS Insulation, agrees that the project will be a success on a number of levels: "The project is hugely important. Not only will the school massively reduce its overheads and impact on the environment, it's also ensuring that the children are learning about science and the environment in a unique, interesting way."

In addition to insulating the school's buildings, St. Peter's will soon take receipt of two Solar-Thermal units to preheat the school's air and water in the most sustainable way. The school has also been working with parent's to introduce 'Walk to School' clubs and other initiatives

to ensure that environmental best practice is something that is taken out of the classroom and into the local community.

“We are introducing these products and methods of best practice as part of a long-term project to become carbon neutral,” added Simon Temple. “We’re currently working with a number of local businesses who are supporting our project, and depend on the generosity and support of those organizations to achieve our target.”

*Thermal performance equivalent to 210mm of mineral wool ($\lambda = 0.04$) based on comparative tests conducted under real conditions and certified by BM TRADA Certification Ltd.

To find out more about ACTIS products, visit www.insulation-actis.com

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ⁱ The 60% decrease came as a result of ACTIS insulation being installed. Before this point no additional insulation was used to improve the thermal performance of the building.

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