



Kent County Council Loose Infant School

SVCS04

During a recent review of Kent Council's Eco Schools Project, Energy Manager Steve Baggs identified SolaVeil® as the perfect energy technology to conduct an energy saving trial.

Loose School suffered from a problem common to most glazed buildings; how to exploit that free energy source, the sun, without the unwelcome solar heat gain, glare and damaging UV.

Loose School classrooms internal temperatures had lead to excessive use of windows blinds, darkening the their interior and creating heavy reliance on artificial fluorescent lighting. In the I.T. suite, localised Air Conditioning was installed to keep ambient temperatures tolerable.

SolaVeil® tailored to the exact needs of the school has been installed in 4 classrooms as a low cost refurbishment. The results are very positive, significant energy savings and the internal learning environment much improved. With the use of the existing window blinds reduced, an added benefit has been an improvement to the school's external appearance.



Industry Sector	Education Local Authority	
Business Driver	Energy reduction Environment Glare	
Product	SolaVeil Cool Energy	
Benefits	Lower temperatures More natural daylight Calming effect on pupils Blinds removed Cooler in interiors Lower energy cost	
SolaVeil Post Installation Data		
	Pre SolaVeil	Post SolaVeil
Typical class temperature	34°C	26°C
Light levels	500 Lux	1200 Lux
Window Blinds	Closed	Open
Use of artificial lighting	Always	Very little
External View	Poor	Very good
Savings		
Energy reductions (First 2 months)	900 Watts	
Attendance improvement (In class)	1%	

Pre SolaVeil®



Post SolaVeil®



Questions	Before SolaVeil	After SolaVeil
Classroom temperature	Always too hot	Very comfortable
Light level in classroom	Seemed a bit dark	Much brighter
Use of Artificial fluorescent lights	Always on	Mainly off
Light level in classroom	Seemed a bit dark	Much brighter
Use of window blinds	Always closed	Always open
How good is the view and daylight?	Ok	Very good
Has using the whiteboard / PC's improved?		No change
How would you rate the overall effect of SV?		Very good

Comments

Parents have commented on the classrooms looking much tidier. The children understand the energy saving issues better and have started turning lights off at home.

Classroom Teacher says *"I'm very happy with the installation and there is a much better light in the classroom"*. (Badger Class)

"Classroom is a happier and calmer environment".

Parents have commented on how *"the classrooms look much smarter"*.

Following the SolaVeil installation the glare issues have been greatly reduced.

"I very often suffered migraines, but have had none since the SolaVeil installation". (Teacher Fox Class)

The external appearance is much more attractive, uniformed and smart.

The Bursar and Head Teacher are giving serious consideration to the removal of the air conditioning unit in the ITC classroom which will save £120 p/a from servicing and maintenance fees.

Blinds are to be removed from the ITC classroom as no longer needed.

"We have been looking at the results since SolaVeil was installed and are so impressed with the savings and benefits we have requested that it is installed throughout the whole school."

Sue Brattle

Head of School, Loose Infant School

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