Case Study Private Residence Woking



Christ the King College in Newport, Isle of Wight, UK, was built in 2008 and extended using built-off-site modular construction in 2013/2014.

Microlouvre Koolshade® screens were installed providing pupils with a cool, shaded, glare free study environment throughout the classrooms

- Glare nuisance for pupils
- Pupil privacy and security
- Overheating in the classrooms
- Natural ventilation was essential
- Insects enetring the classrooms

The Problem:

Hot spots near windows were causing overheating in the classroom, and the pupils were struggling with flies coming through the window when opened.





THE SOLUTION

After a trial Microlouvre Koolshade[®] screens in 2013, a significant improvement with heat gain and glare was proven. In 2014 Microlouvre Koolshade[®] screens were installed providing pupils with a cool, shaded, glare free study environment throughout the classrooms, with localised hotspots near windows eliminated.

Valuable natural ventilation was possible due to the 80% open area provided by the screens, when the air conditioning was not in use. (Latest tests by LBNL in California have proved that air conditioning equipment can be switched off for 68% of the time, even in spring, if Microlouvre Koolshade® screens are fitted).



When windows were opened, the pupils were protected from flies and other insects by the paper-thin louvres.

Although the screens have taken heavy punishment from footballs and other typical school projectiles, the classroom windows have remained protected and intact.

This is an essential Health & Safety benefit for pupils protected from flying glass. Also, because the screens have stopped breakages, valuable classroom time has been saved.

RESULTS

- 100% solar heat block
- 100% summer sun shading
- 80% free air flow natural ventilation
- Perfect outward vision
- Privacy and security
- Wind and rain protection (100mph winds)
- Health & safety broken glass protection