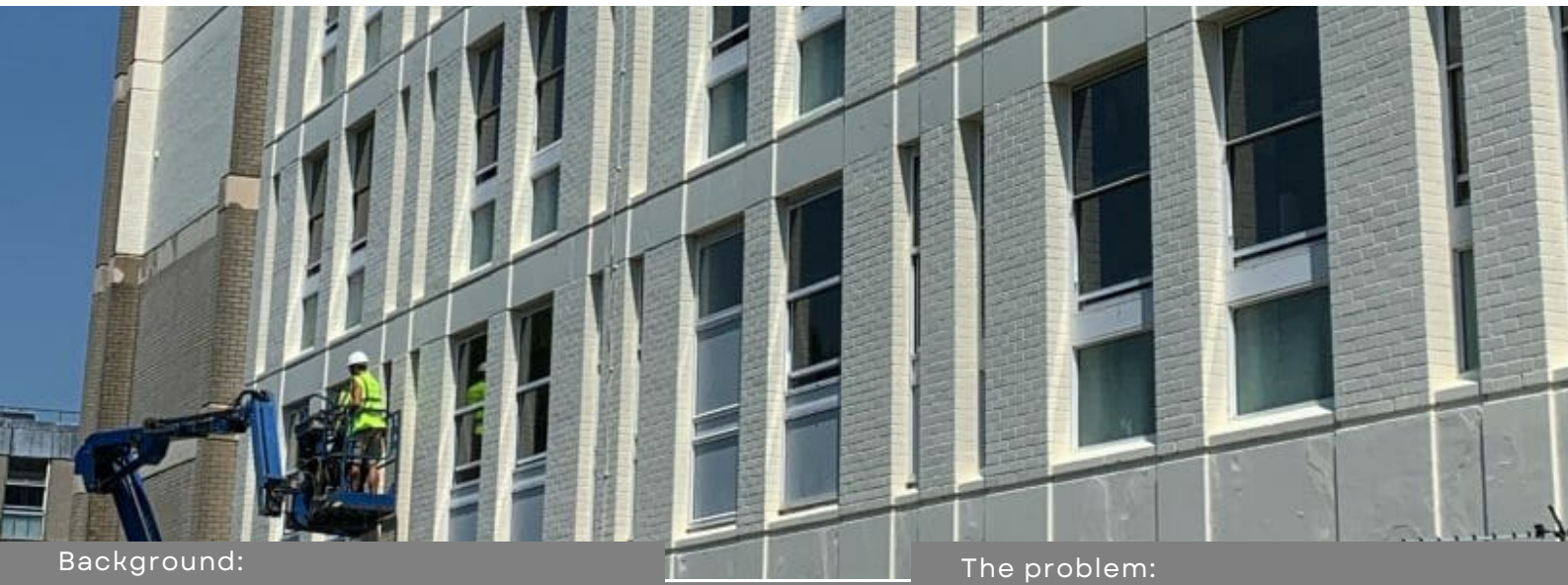


# Case Study Basigstoke Hospital

Basingstoke hospital needed to solve massive heat gain problems through windows, health problems and energy costs associated with inefficient air-conditioning systems. These issues were already manifesting themselves in early spring.



## Background:

Basingstoke hospital needed to solve massive problems of heat gain through windows and health problems and energy costs associated with inefficient air-conditioning systems.

High internal temperatures inside the Microbiology laboratories meant using mobile 'through the window air conditioning units'. Initially, the project was intended only for the laboratories, but once a clinical ward Sister learned of the impending solution, she insisted her ward be included in the installation.



## The problem:

- Unbearable internal temperatures, for all staff and patients, even in early Spring
- Inefficient, germ spreading (refer CIBSE guidelines) mobile air-con units were not coping
- Natural ventilation was essential
- Energy efficient product was needed
- Need to have perfect outward vision
- Need to have pure natural light (100%CRI)
- Maximum solar heat gain heat protection was essential

## Results:

- Heat block and temperature reduction for patient and staff
- Natural ventilation
- Views out
- Energy saving

**KOOLSHADE**<sup>®</sup>  
The Ultimate In Passive Solar Shading



## THE SOLUTION

The heat buildup was well into the mid-30°s before Microlouvre Koolshade® screens were installed. Using a simple boom cradle, screens were quickly and easily integrated using side hinges and spring lock catches to allow the screens to be opened for maximum ventilation.

Temperatures immediately plummeted for the benefit of all. Because of these results, it was said that 40 air-conditioning units were no longer required. As Basingstoke hospital is part of a government initiative to save energy – one of the results achieved was cutting the mechanical cooling costs and that's why Microlouvre Koolshade® was the most suitable product for this project.

