

Case Study West Norwood Fire Station

West Norwood Fire Station was built in 2014 and the firefighters' gymnasium soon became unbearably hot in the peak heat gain seasons of spring and autumn and also summer.



Background:

The project was part of a refurbishment across nine London fire stations, all with overheating and sun control problems.

As a result, Smartlouvre, the UK Koolshade® manufacturer, was added to the approved list of contractors for London Fire Brigade.

The problem:

The solar heat gain made Intensely hot rooms throughout the Fire Station. Air conditioning was not sufficient and a way to block the sun's heat before entering the Station, especially the Station gym, was needed.

When Koolshade® was considered, it ticked ALL of the boxes.

Results:



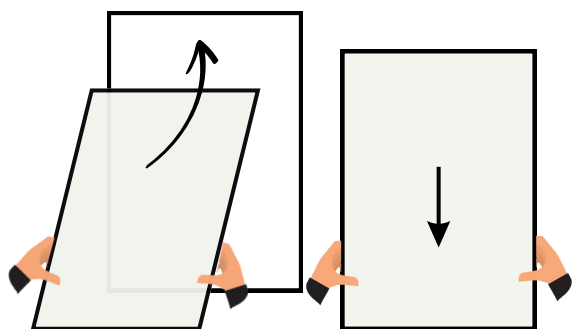
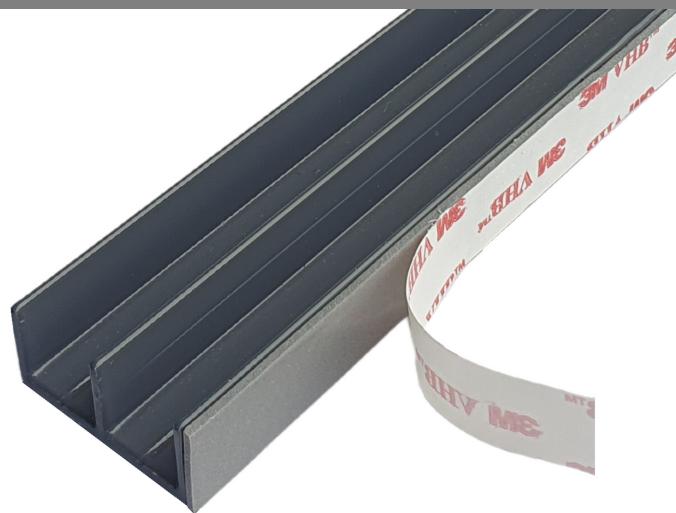
KOOLSHADE®
The Ultimate In Passive Solar Shading

- Heat block and temperature reduction
- Comfortable, usable gym
- Restored views out
- Air conditioning reduction
- Glare control

THE SOLUTION

MicroLouvre Screens were installed on the windows to reduce internal temperatures and the need for energy guzzling, climate unfriendly air-cooling systems.

The firefighters using the gym experienced an immediate and drastic reduction in temperature, making conditions bearable and reducing the need for light and outward vision blocking internal blinds.



Lift In/Lift Out

Although the installation required the use of a boom to reach the windows, the installation of the large screens in simple Lift In / Lift Out (LILO) tracks was very quick and easy, only taking 5 minutes per screen.

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The Ultimate In Passive Solar Shading

It is a highly efficient and versatile woven metal fabric. Its micro-louvres are set at specific angles to stop solar heat gain and glare, and is non-combustible.

