

Case Study The Huntington & Langham Estate



Background:

Smartlouvre worked with The Huntington & Langham Estate care home to stop intense solar gain through ground and first floor windows.

The challenges were:

- A curved building
- Upward laminar air circulation
- Very high internal temperatures

The Managing Director of this care home, spent years looking for a solution to the excessive solar gain from the ground and first-floor windows.



The problem:

It all started in 1978, when Marilyn Hoare, the founder and owner, launched Huntington House, one of the country's first nursing care facilities.

Marilyn was a nurse living in Surrey at the time, and she was so enthusiastic about providing high-quality nursing care for the elderly that she decided to make her dream a reality by offering inexpensive, luxurious 24-hour nursing care.

On the ground, he put a 700mm projection Brise soleil that did not work and cost a fortune. The majority of the day, they only covered 20% of the ground windows.

They needed to save cooling expenses and make the interior spaces usable, which were mostly inaccessible due to the increased heat.

KOOLSHADE®
The Ultimate In Passive Solar Shading



The Solution:

Since the building is curved and the wind may whip around it, we had to adjust the Lift In / Lift Out (LILO) to accommodate for the nature of the inclement weather.

We have installed end stops, locking pins, and bump pads. MicroLouvre Koolshade® was the only option as they the building required ventilation and uninterrupted vision out.

They had looked at all film and external blind options and trialled film, but soon realized that MicroLouvre® was the best and most cost-effective option.

Results:

- Thermal and visual comfort
- Solar heat reduction
- Pure, natural daylight in
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And of course, the ability to now rent out all of the rooms on the estate, with no overheating, hot-spots or closed windows.