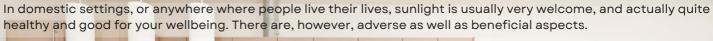


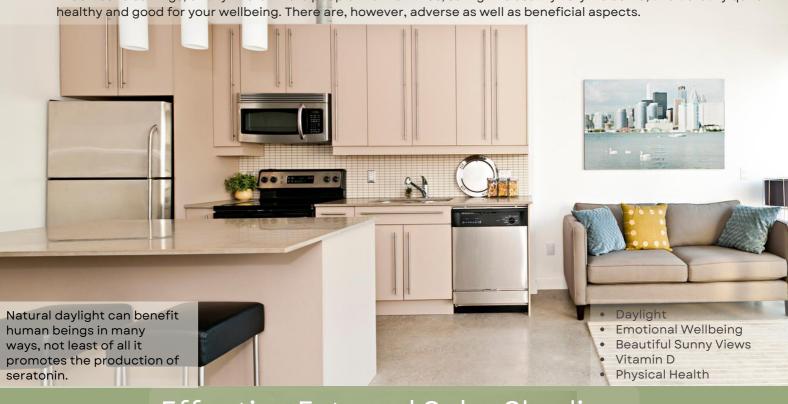
Solar Shading Systems Sustainable solar shading with unrivalled performance





What is External Solar Shading?





Effective External Solar Shading

lets in the essentials and filters out the unwanted.

As our Planet warms, the need to manage Solar Energy is increasing.

In dwelling & working environments, it's critical that the health, welfare and well-being of occupants is managed, but doesn't cost the Earth.

Too much solar heat gain can be detrimental to health and wellbeing.

It can also bleach fabric and create glare.



Prevent:

- **Excessive Heat**
- Glare
- III Health
- Unusable Rooms & Spaces
- Solar Bleaching

There are options. Some effective. Some less so. Some easy to achieve, others much less so.



Safe External Shading

HOOLSHADE



Nothing is more effective at removing solar heat gain whilst allowing natural daylight to flood through.



How does **HOOLSHADE** work?

100% Shading & Zero Heat Gain

The KoolShade® Chimney Effect

KoolShade® absorbs all the heat like a sponge, sucking in cool air, dissipating heat to the outside BEFORE it ever reaches the window.

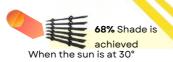
It stops all direct sun glare whilst allowing perfect natural light, ventilation and outward vision.



When the sun is at its strongest, at anything over 40°



When the sun is at 20°





Stopping the sun from hitting the glazing ensures thermal comfort for the occupants without the need for mechanical cooling.

But still allows light and ventilation to pass through as normal. This keeps rooms well lit and comfortably cool.

in simple terms

P.P. Market

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It doesn't allow the hot solar radiation through, it gets deflected by the angled micro-louvres.



Building Regulations

Approved Document O, Building Regulations. Overheating mitigation. MicroLouvre Fabric drastically reduces heat in buildings in a non-mechanical, passive way.

Fire Safety

Approved Document B. A1/A2, BAL-40 and BAL-FZ regulation-compliant.

Maintenance Free

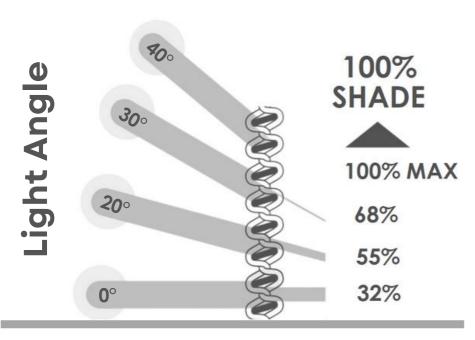
Once fitted to a building, solar shading should be maintenance and hasslefree for as long as possible. MicroLouvre screens fitted over 60 years ago are still in pristine condition.

Our K700-17 fabric has each louvre set at 17°

When the sun is at 40° TOTAL, 100% shading is provided

Fraunhofer ISE states that MicroLouvre KoolShade® fabric is an angle-selective product, therefore angle-dependent transmittance and reflectance values have been tested at positive and negative angles of incidence.

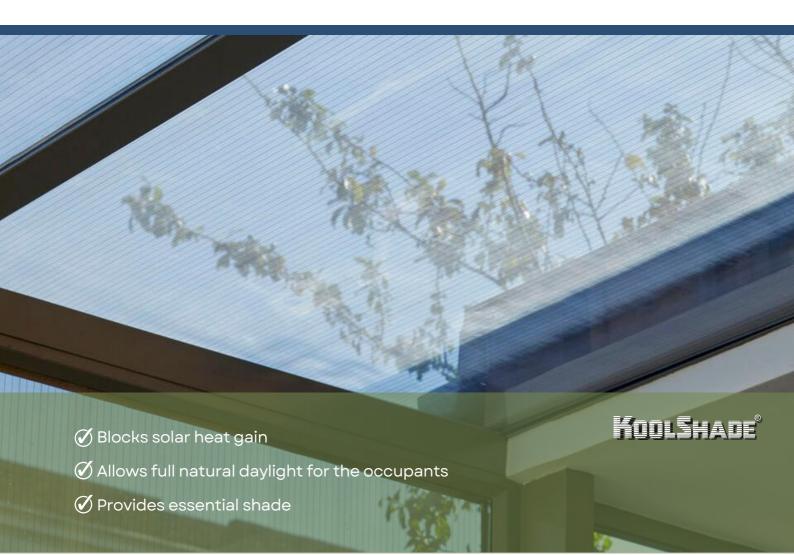
K700-17 Fabric





The Fraunhofer-Gesellschaft based in Germany is the world's leading applied research organization.

Prioritizing key futurerelevant technologies and commercializing its findings in business and industry, it plays a major role in the innovation process.





BINARY house



KOOLSHADE®

The **BINARY House** project was undertaken by the **SPACE Group**. The rear elevation contains a central fixed glazed panel that is seemingly wrapping up and over to become a skylight. **MicroLouvre KoolShade®** was specified as a means of solar gain control, enabling views whilst reflecting sunlight. The nature of this **MicroLouvre KoolShade®** creates very interesting halo effects when hit by light giving it an animated yet technological feel.

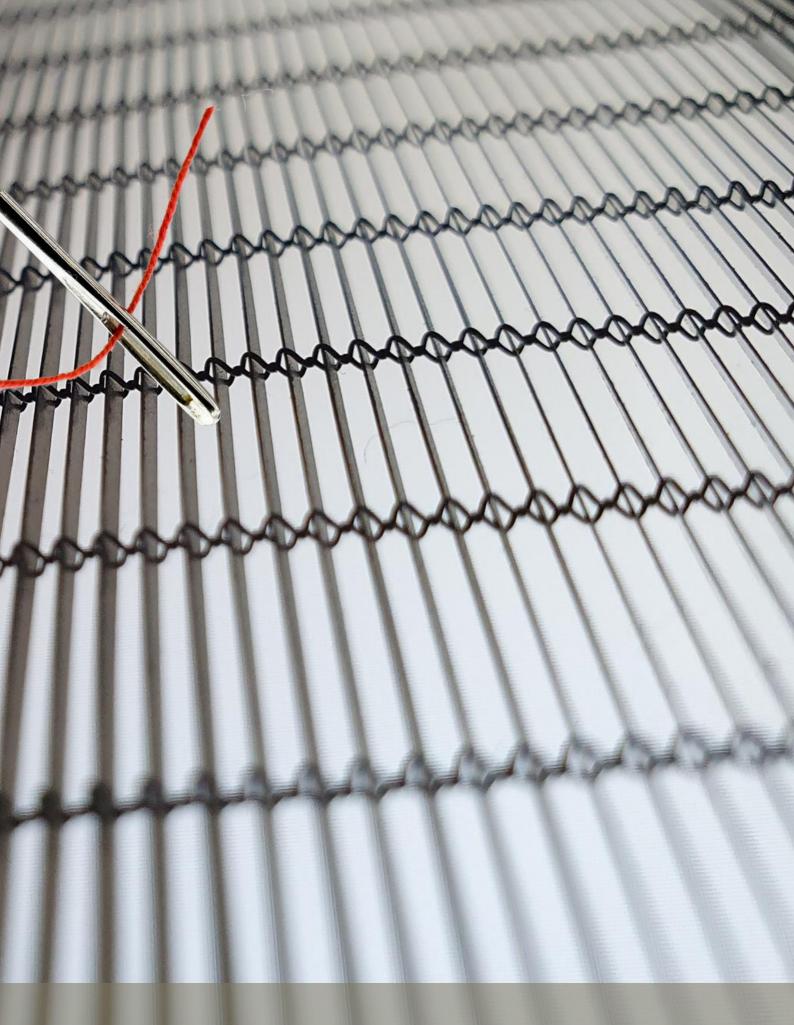


The architect used MicroLouvre KoolShade® brilliantly to blur the lines between the garden, the sky and the indoor spaces.



The rooms flood with daylight and remain cool from natural, passive 'air conditioning'. Solar heat gain is stopped before even reaching the living space.

PASSIV haus



Woven in the UK, MicroLouvre KoolShade® is the world's thinnest and lightest louvre system, with up to 700 paper thin, bronze micro louvres woven into every metre of the metal fabric.



The options are endless

Cable & Outrigger Fix



Cable Fix



Whether used on residential or commercial properties, the use of cables and outriggers can add a sophiticated and stylish aesthetic, especially on modern buildings.

A cable fix can be used to envelop a building or remove the solar heat gain from specific areas.

MicroLouvre KoolShade® won't diminish your view and maintains a flow of natural fresh air.

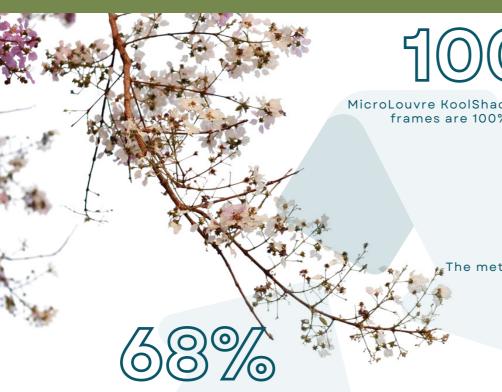


Outrigger Fix

Outriggers allow a unique architectural look whilst being incredibly effective.

Finished to any RAL colour, a real statement can be made to match, compliment or contast to the buildings design.

Sustainability



MicroLouvre KoolShade® metal fabric & frames are 100% recyclable

The metal fabrics are made from over 90% recycled scrap copper

Air conditioning usage can be reduced by over 68% when used as Solar Shading

MicroLouvre KoolShade® has proven longevity with 60+ maintenance free

of air-condioning equipment & cost can be saved

Miranda Kerr

"Some sunshine is good for the soul, but I always make sure I wear a big hat."

As our climate changes, we need to promote ways to enjoy the 'good' bits of the sun, whilst eliminating the 'bad'. While natural heat and light are essential in most buildings there are rapidly increasing occasions when the levels are dangerously high.

no maintenance, no plastic, no vinyl, no electricals, & no energy required to operate



Longevity

Shading from the sun has been a challenge in habitats for decades.

KOOLSHADE







The images above show installations, still going strong, from the last 50 years.



Location Malibu, USA



Application Solar Shading



Install Date 1960



Location Indianapolis, USA



Application Solar Shading



Install Date 1976



Location London, UK.



Application Solar Shading



Install Date



Customer

HRL LABORATORIES



Customer

INDIANAPOLIS CITY COUNCIL BUILDING



Customer

PECKHAM POLICE STATION



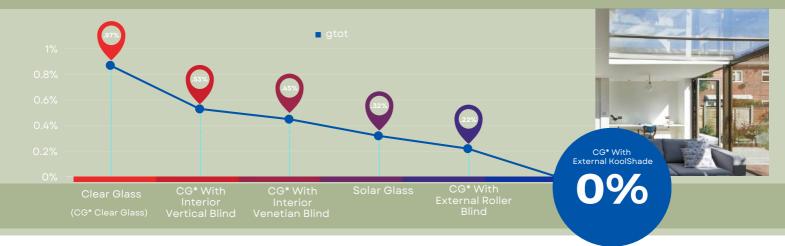
When fitted to windows, doors, & skylights it's like a filter, allowing the good parts of sunlight and keeping the bad out.

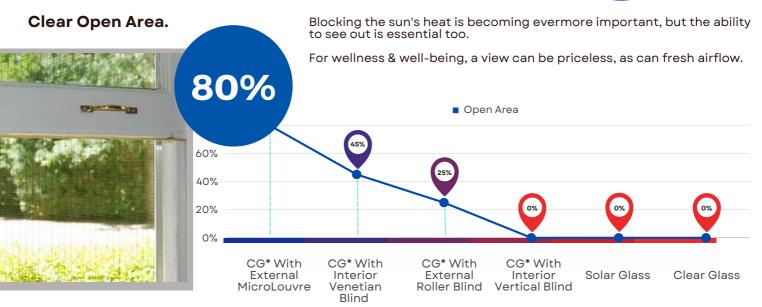
MicroLouvre is a highly efficient and versatile woven metal fabric. Its micro-louvres are set at specific angles to **stop solar** heat gain and glare, it's Fire-Safe (A1 & A2 Fire Rated) it also:

- Allows perfect vision out and an unrestricted flow of fresh air with a Clear Open Area of 80%
- Is compliant to all aspects of Approved Document O (Overheating Mitigation)
- · Has a lightweight construction, ideal for any height of building and is hurricane-proof
- Can be powder coated to any RAL colour to compliment any design theme
- Is made from fully recycled and recyclable material

Solar Heat Gain.

The UK is warming up, great for 'staycations' but can this be very challenging in buildings, especially ones with no or limited ventilation and/or highly glazed areas. The higher the solar heat transmission, the hotter the room.





Clear View.

Natural light has a range of benefits including an increase in levels of serotonin. So, no only will you feel happier, but levels of productivity increase in naturally lit places.



















