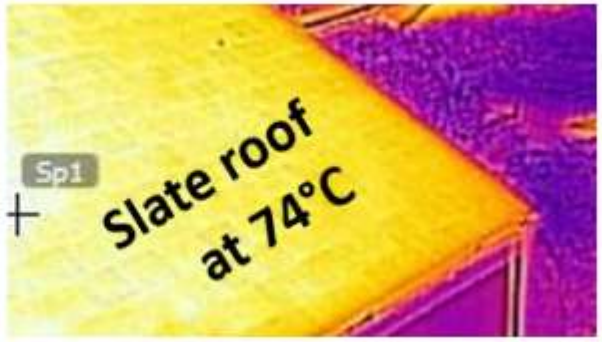
Get Ready for Heatwaves

Tue 30th June 2026, 7:30pm – 8:30pm

William Orme	OEH Manager	Chair
Andrew Chalk	Guest Speaker	Shading
Tom Bragg	OEH volunteer	Staying cool
Paul Kershaw	Cambridge Retrofit Hub	Next Steps
Nicole Dang	OEH volunteer	Questions +

Outline

Welcome	**William Orme**	CCF Home Energy Officer
Shading	**Andrew Chalk**	British Blind & Shutter Association
Q&A	Nicole Dang - calling on questioners	
Ventilation +	**Tom Bragg**	CCF volunteer
Next Steps	**Paul Kershaw**	Cambridge Retrofit Hub
Q&A	Nicole Dang	CCF volunteer




Shading for a
Resilient Future
BLINDS
AWNINGS
Blinds
Make
Better...
SHUTTERS
BBSA
BRITISH BLIND & SHUTTER ASSOCIATION

The era of global boiling has arrived...

90% Of our time is spent indoors

90% Of the UK's housing stock could overheat by the 2030s

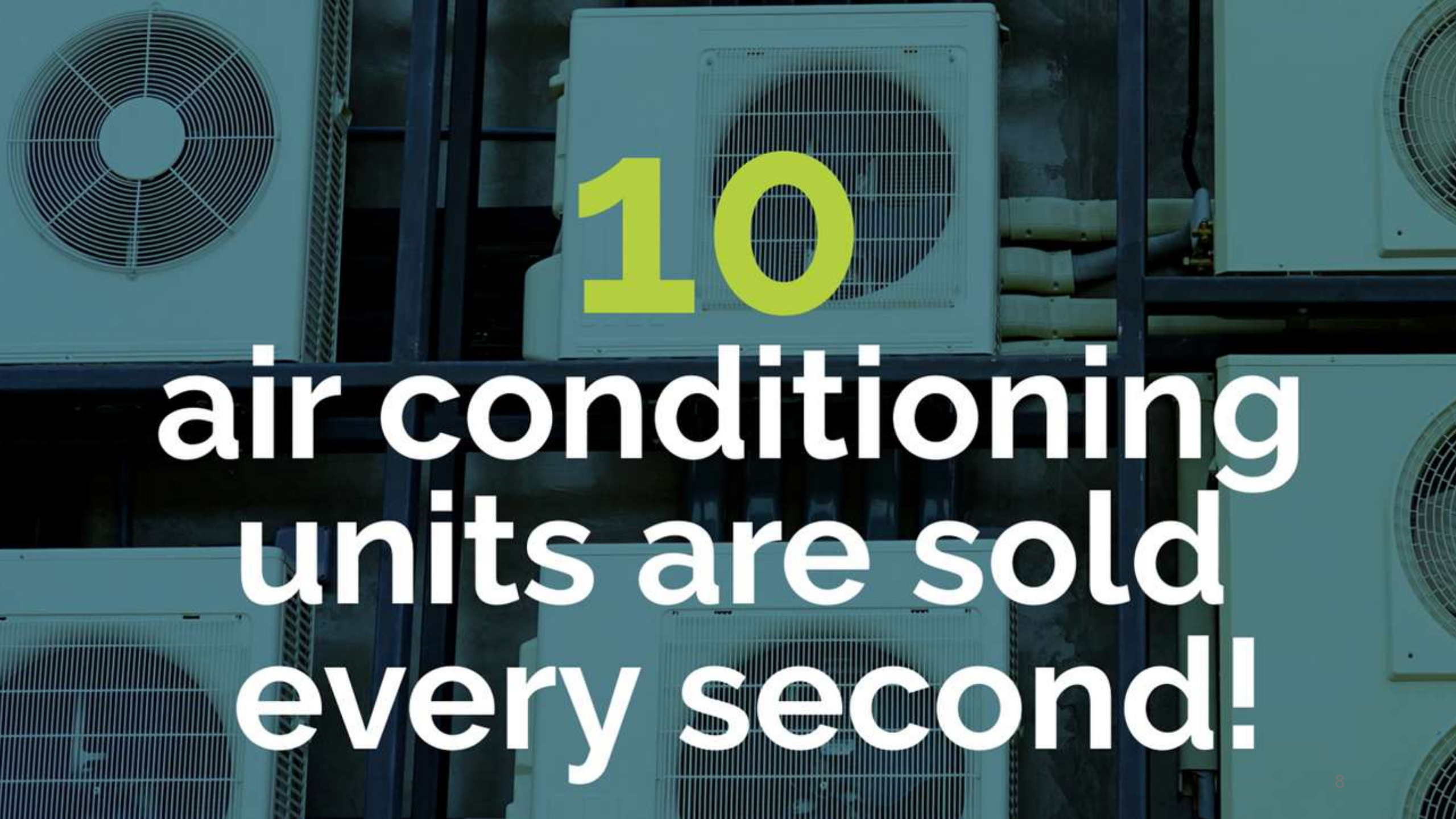
90% Of the UK's hospitals prone to overheating

98%

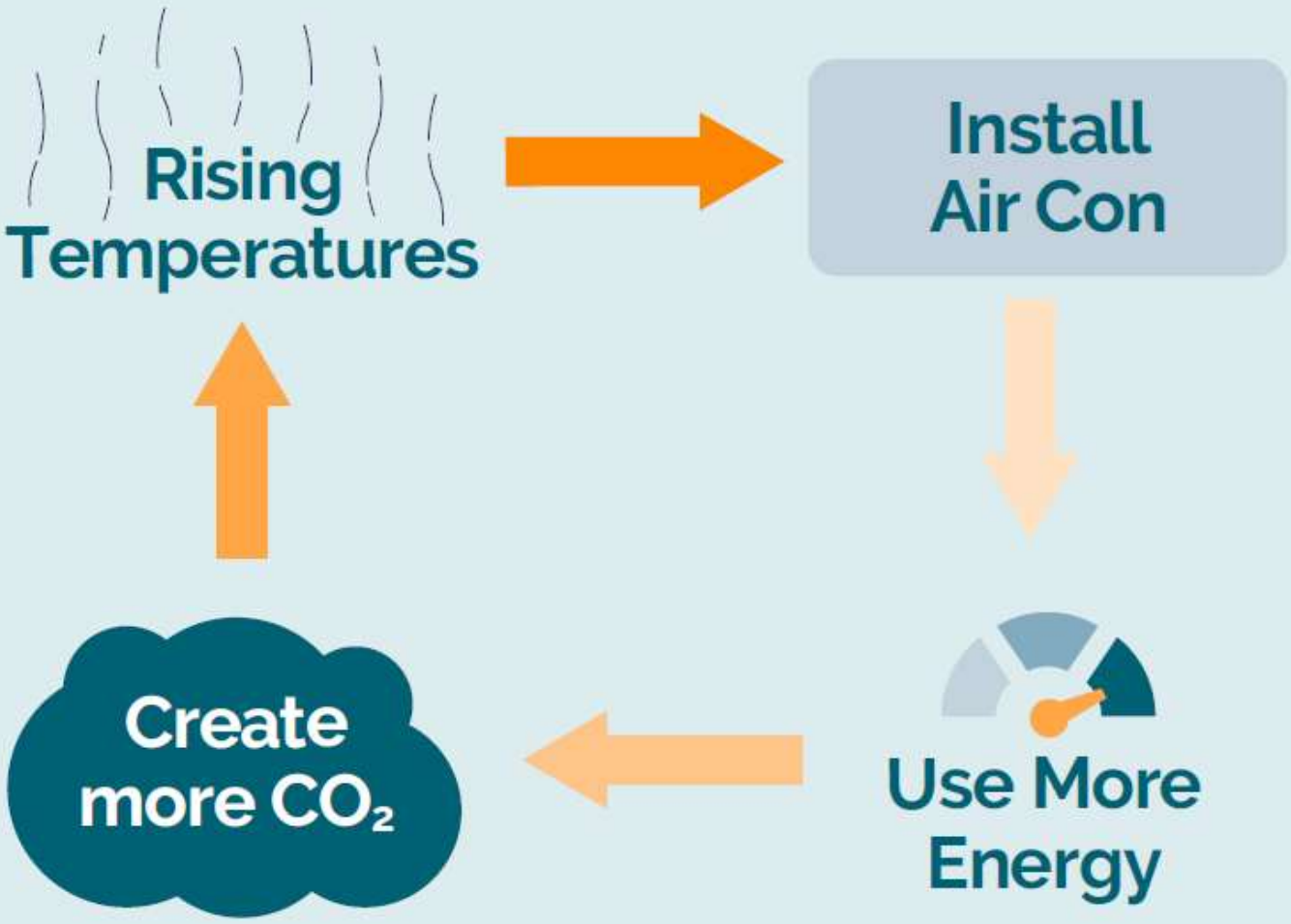
Possible heat exclusion from using external shading


Bedrooms in
15.7 million
UK homes fail
overheating criteria

Cooling is the fastest growing use of energy in buildings


10
air conditioning
units are sold
every second!

The vicious cycle

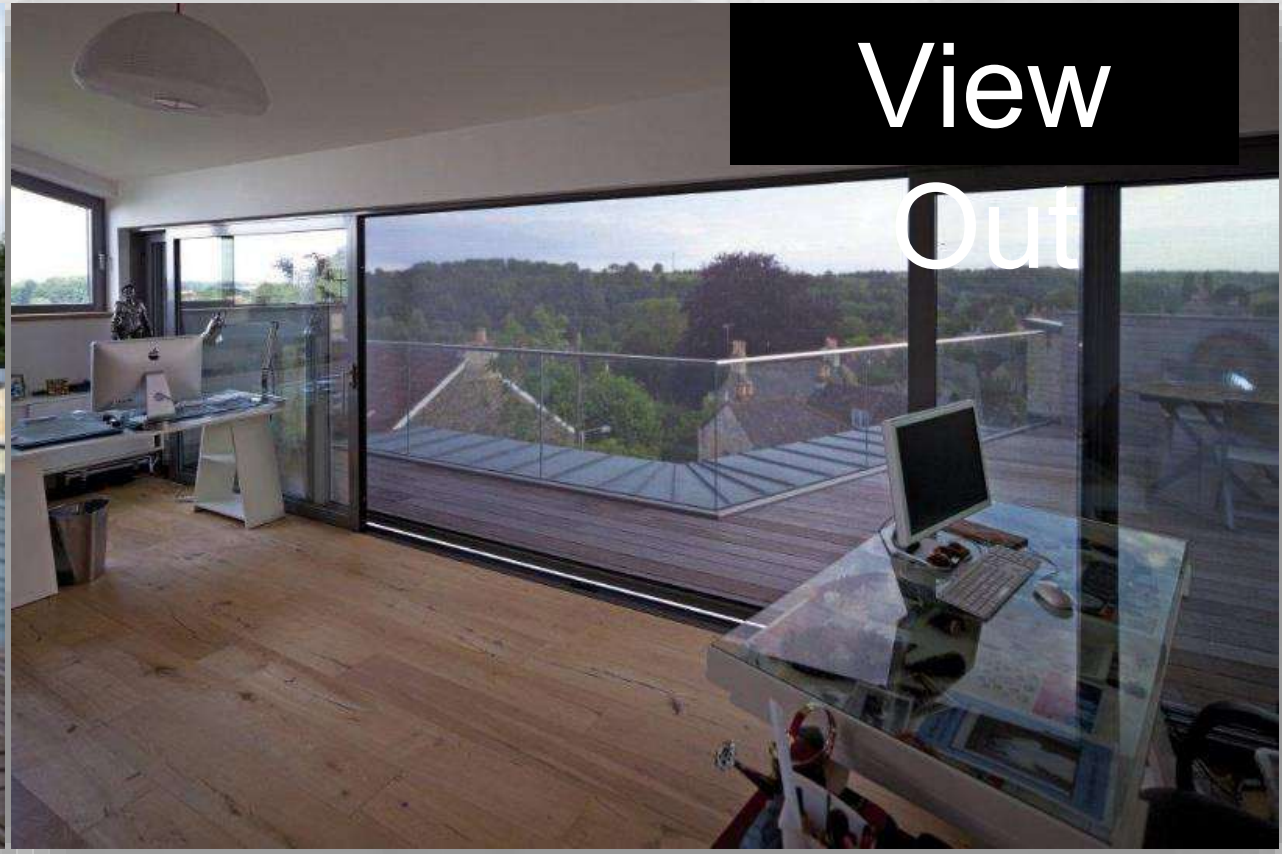



Prevention is better


than cure!

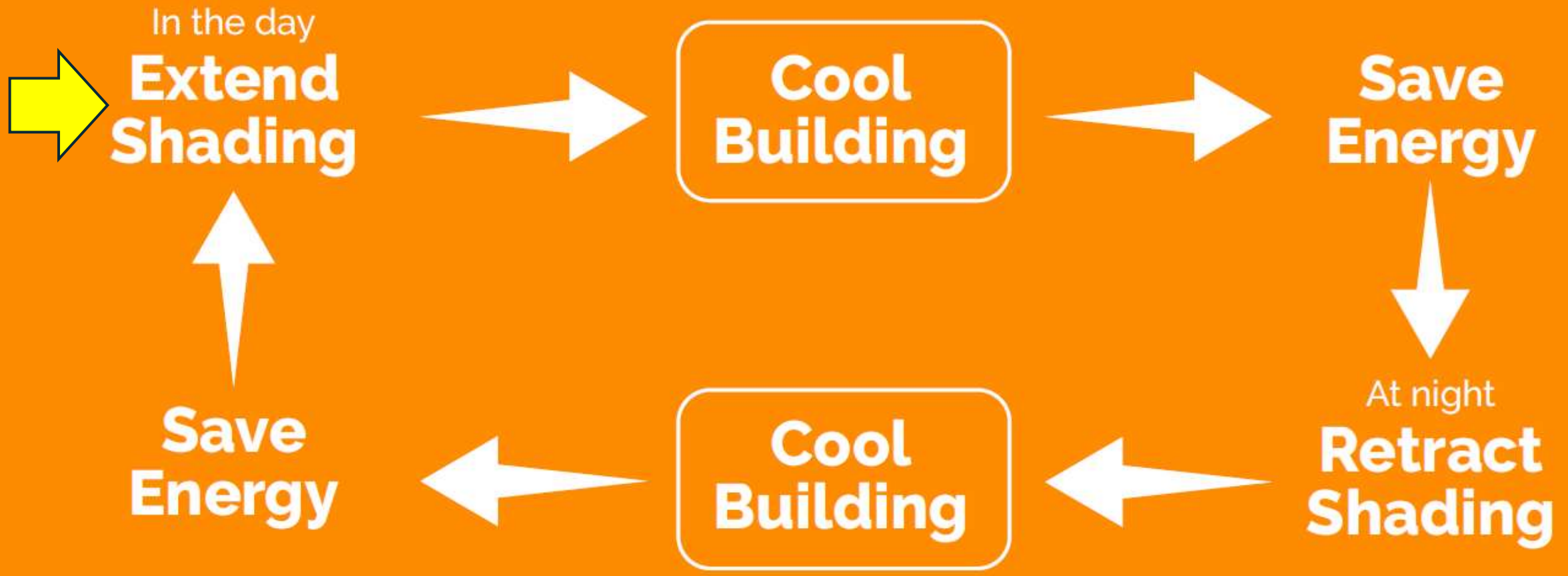

Prevention is better


View In


View
Out


Smart Solar Shading could save
£240,000,000,000
in energy costs across
Europe by 2050

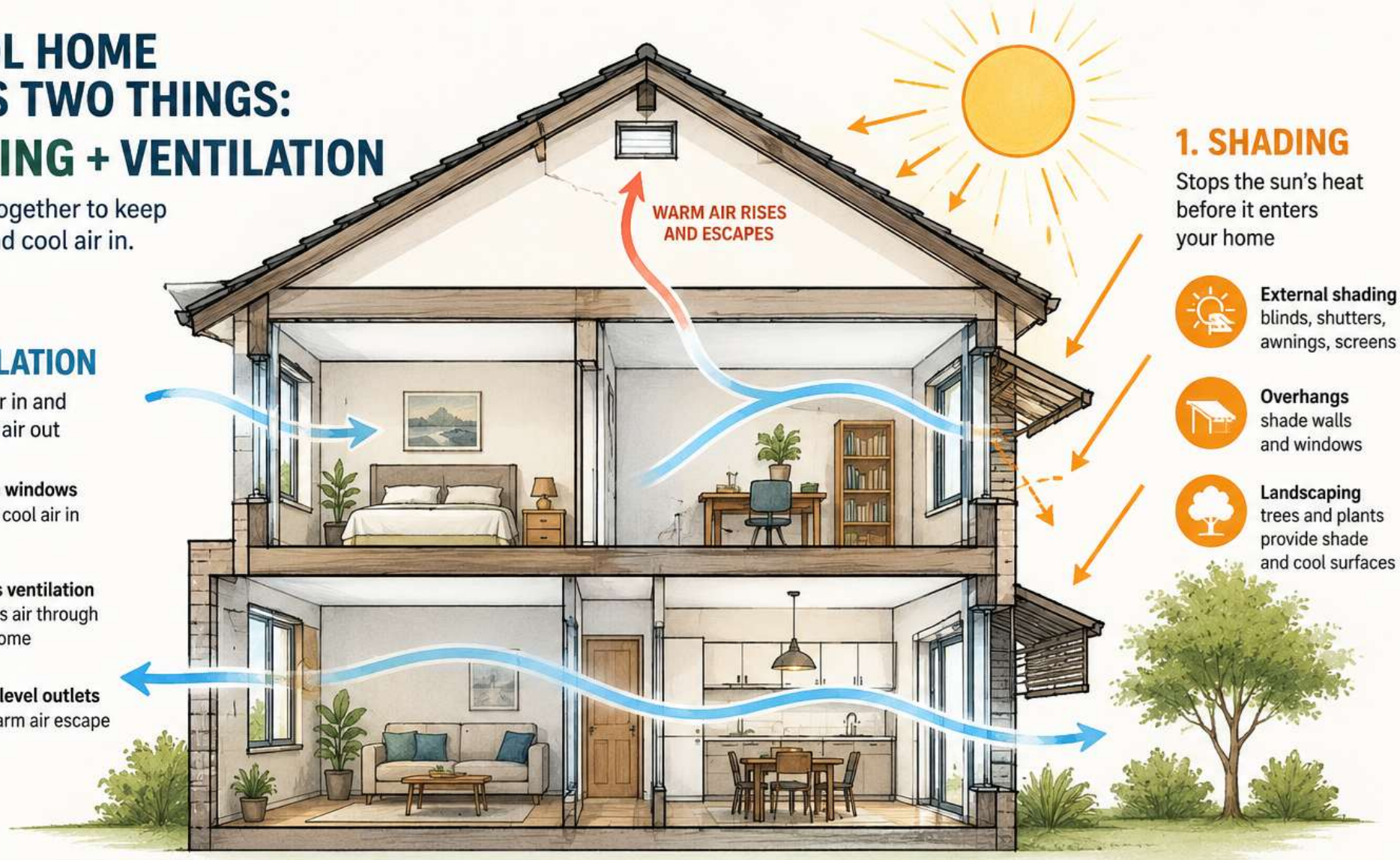
Shading makes sense **in summer**



A COOL HOME NEEDS TWO THINGS:

SHADING + VENTILATION

Use them together to keep heat out and cool air in.



1. SHADING

Stops the sun's heat before it enters your home

- **External shading** blinds, shutters, awnings, screens
- **Overhangs** shade walls and windows
- **Landscaping** trees and plants provide shade and cool surfaces

2. VENTILATION

Brings cool air in and flushes warm air out

- **Open windows** to let cool air in
- **Cross ventilation** moves air through the home
- **High level outlets** let warm air escape

THE RESULT:

- Lower temperatures
- Less need for energy hungry cooling
- Improved comfort, health and productivity
- Lower carbon emissions

Shading keeps the heat out. Ventilation keeps the coolness in.

Together, they keep your home naturally cool.


London South Bank University

Beat the heat with shading

47.5°C

No blind

28°C

External blind

-19.5°C

cooler with shading

Benefits of External Shading and Ventilation to Overheating Reduction

Loughborough University

CARIBBEAN BLINDS UK LTD

Guthrie Douglas

Luxaflex®

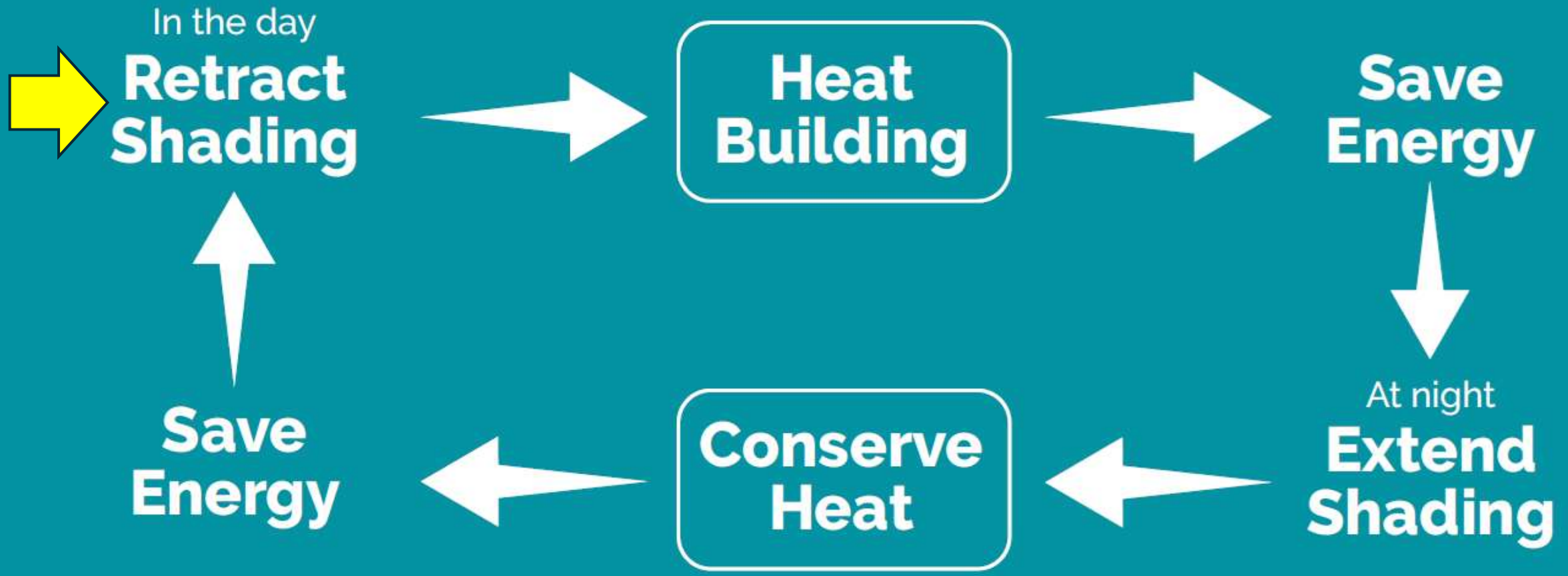
Serge Ferrari group

JAMES ROBERTSHAW
BESPOKE AWNINGS & BLINDS

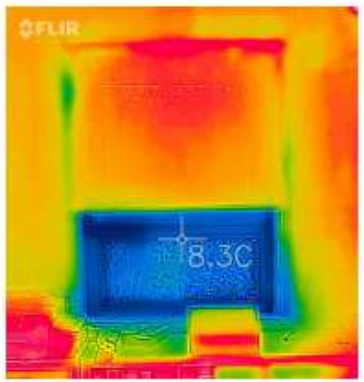
weinor


University of
Salford
MANCHESTER
ENERGY
HOUSE 2.0

Shading makes sense **in winter**

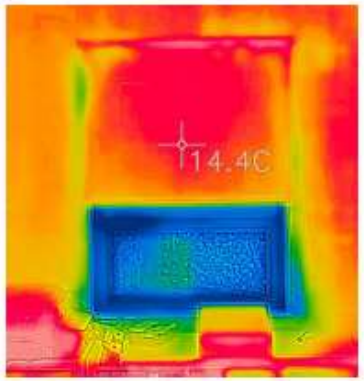


Beat the cold with shading



8.3°C

Internal glass surface temperature



14.4°C

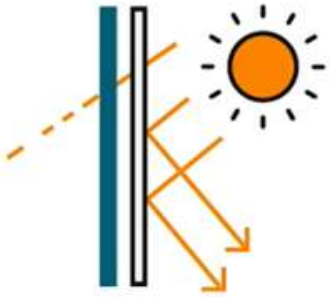
Internal blind surface temperature

+6°C

warmer with shading

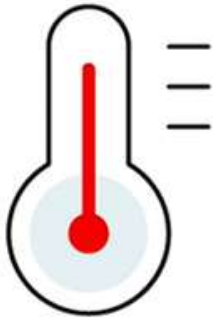
Dynamic shading for a dynamic climate

Dynamic shading for a dynamic climate



Reduce solar gain

Prevent overheating during warmer weather



Retain wanted heat

Reduce heat loss during colder months

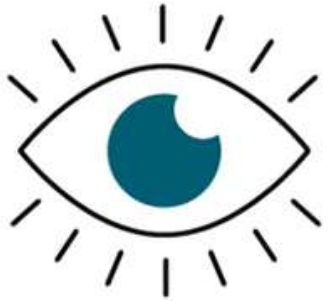
Reduce energy use

Save on energy costs and cut carbon emissions

Dynamic shading for a dynamic climate

Automation benefits

Ensures optimal performance and comfort



Control light and glare

Harvest natural daylight without discomfort from glare

Larger glazed areas

Supports architectural designs

Shading Solutions

Delivered by

Pollard Thomas Edwards with MAX FORDHAM, OXFORD BROOKES UNIVERSITY, MA MARTIN ARNOLD

Commissioned by

Good Homes Alliance, BBSA BRITISH BLIND & SHUTTER ASSOCIATION

Supported by

ballymore., Guthrie Douglas, LOUVOLITE, CARIBBEAN BLINDS UK LTD

Summary of properties

How to read the performance web

Each product's performance web has seven metrics, each with its own 'radial spoke'. High performance metrics are closer to the outer edge of the web; low performance metrics are closer to the centre.

Fixed shading devices

Product 1:
Overhang

Product 2:
Horizontal slats

Product 3:
Vertical fins

Product 4:
Fixed screens

Dynamic shading devices

Product 5:
External sliding shutters

Product 6:
External folding shutters

Product 7:
External hinged shutters

Product 8:
External venetian blinds

Product 9:
External roller blinds

Product 10:
External roller shutters

Product 11:
Drop arm awning

Product 12:
Folding arm awning

Product 13:
Dutch canopy awning

Product 14:
Internal roller blinds

Product 15:
Internal venetian blinds

Product 16:
Internal hinged shutters

Alternative shading devices

Product 17:
Closed cavity façade

Product 18:
Window film

Product 19:
Planting

Product 9:
External roller blinds

Technical spec

This product is a box installed in the window head containing a blind - a weather-resistant fabric - with side channels or cables allowing users to guide the blind upwards into the box or downwards to cover the glazing. The blind can be coloured and/or have different levels of opacity, providing a degree of glare control (and views out). Suitable for shading façades and roofs with complex geometries.

Overheating mitigation	High	Blocks solar gains when fully extended. Effective in all orientations
Winter solar gains	High	Allows maximum solar gains when fully retracted
Daylight	Medium	The mesh material is designed to facilitate adequate light levels in winter allowing maximum daylight when fully retracted
Ventilation	Low	The mesh material allows for a certain degree of ventilation, but it will mainly depend on how much the blind is extended
Wind resistance	Medium	Side channels are more robust than cable guides. The blind automatically retracts in high winds if linked to sensors
Operability	High	Motorised and automatic options are available. Suitable for reduced mobility occupants. The performance depends on the control option and occupant behaviour
Maintenance	Medium	Inspect fabric and channels or cables. Access to the motor in the blind box is required
Cost	£££	

Historic England

Adapting Historic Buildings for Energy and Carbon Efficiency

Historic England Advice Note 18 (HEAN 18)

Buckingham Palace garden party, 1897, with all the window awnings down on the south-west elevation

A view of the house without the awnings down.

© Historic England

The house with the awnings fully lowered.

© Historic England

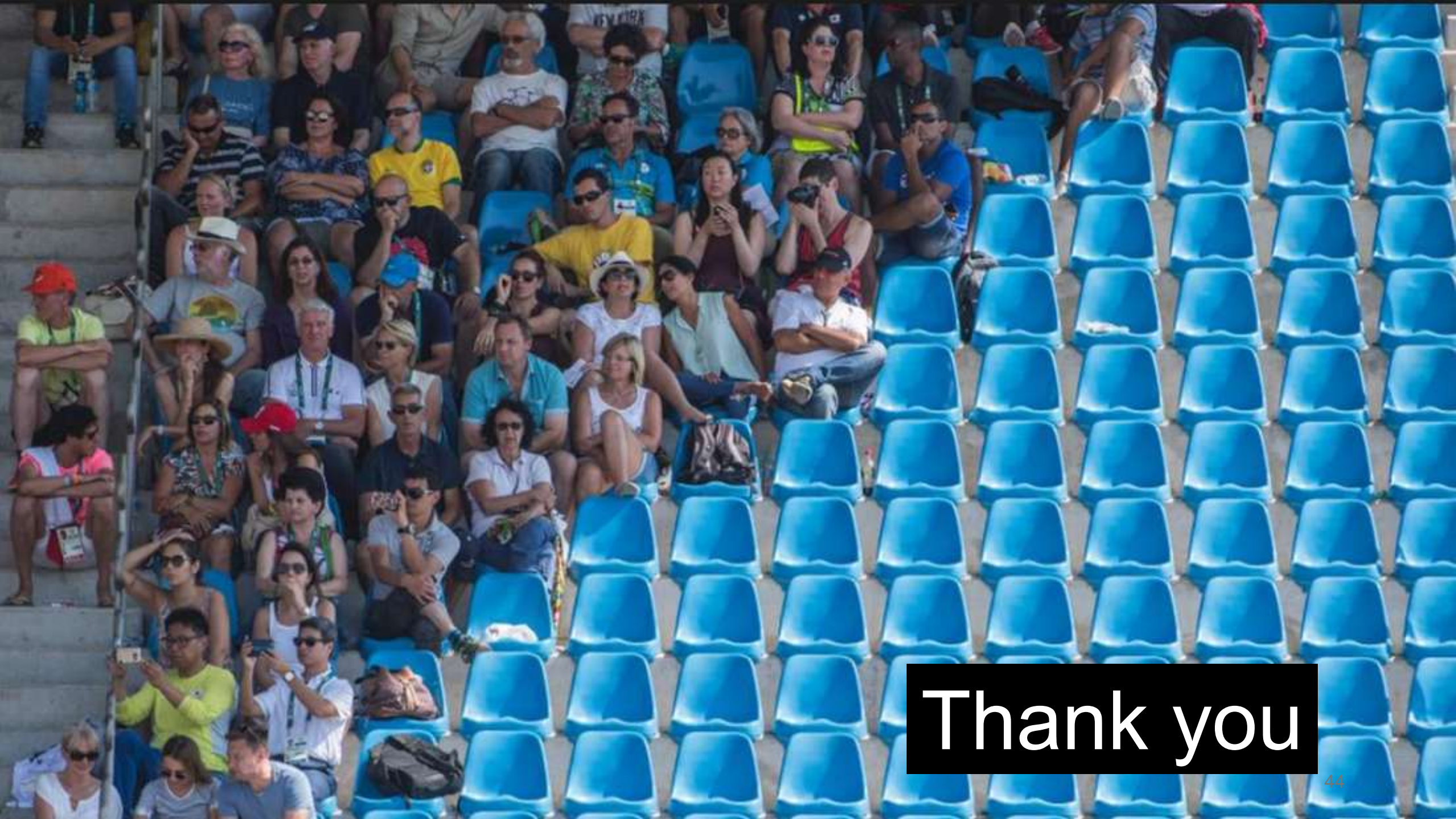


Historic England

Adapting Historic Buildings for Energy and Carbon Efficiency

Historic England Advice Note 18 (HEAN 18)

https://bbsa.org.uk/wp-content/uploads/2026/06/Get-Ready-for-Heatwaves.zip


Thank you

Questions
on Shading, etc

Ventilation

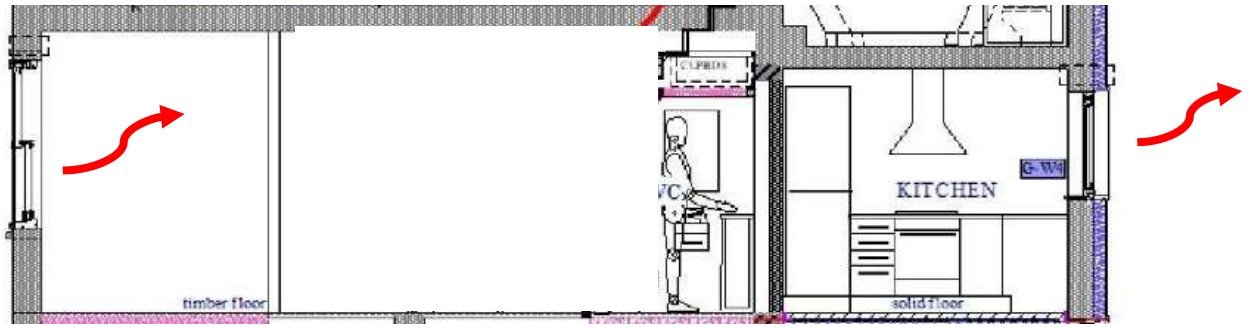
When it's hotter outside

shut doors, windows & vents

Usually: daytime, sunny-side

When it's cooler outside:

Open windows, skylights, vents at bottom & top of house



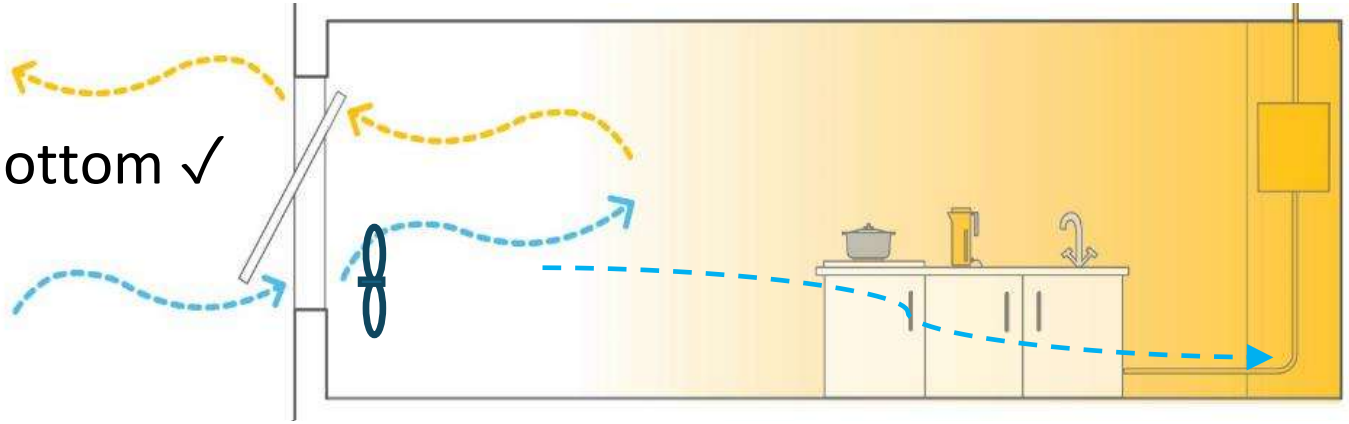
Or, if it's single-storey:

Ventilate <u>across</u> your home

Single-aspect flat:

Window opening top & bottom ✓

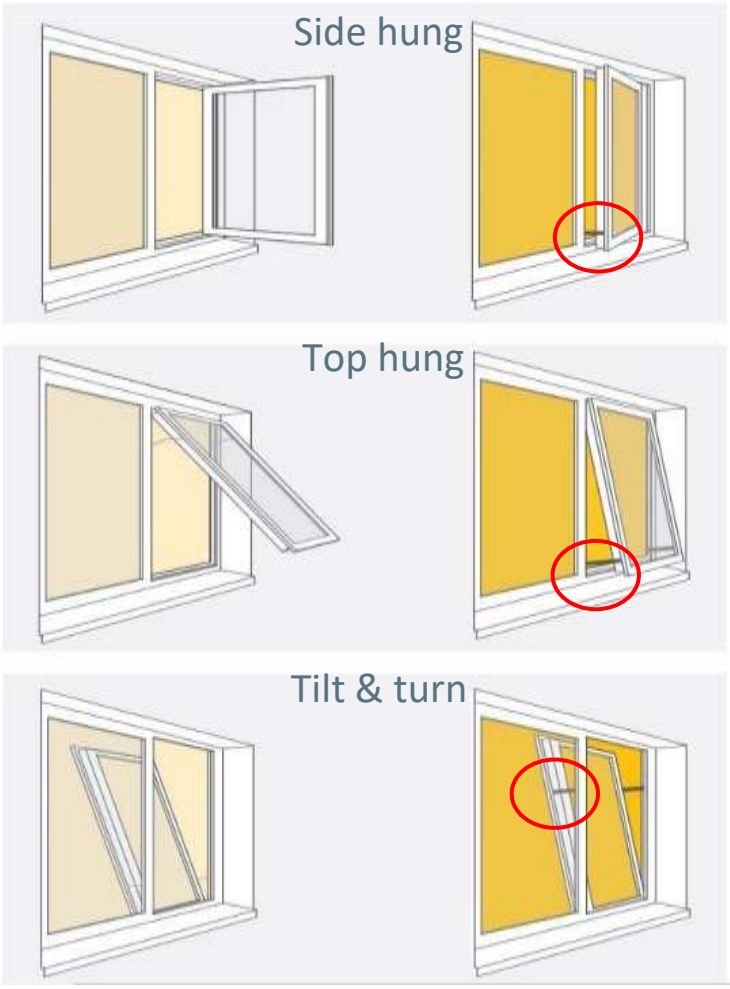
a fan may help



Security for Night Cooling

Restrictors on windows & doors:

Regular windows



Look for Secured By Design

Sash windows

Ventlock

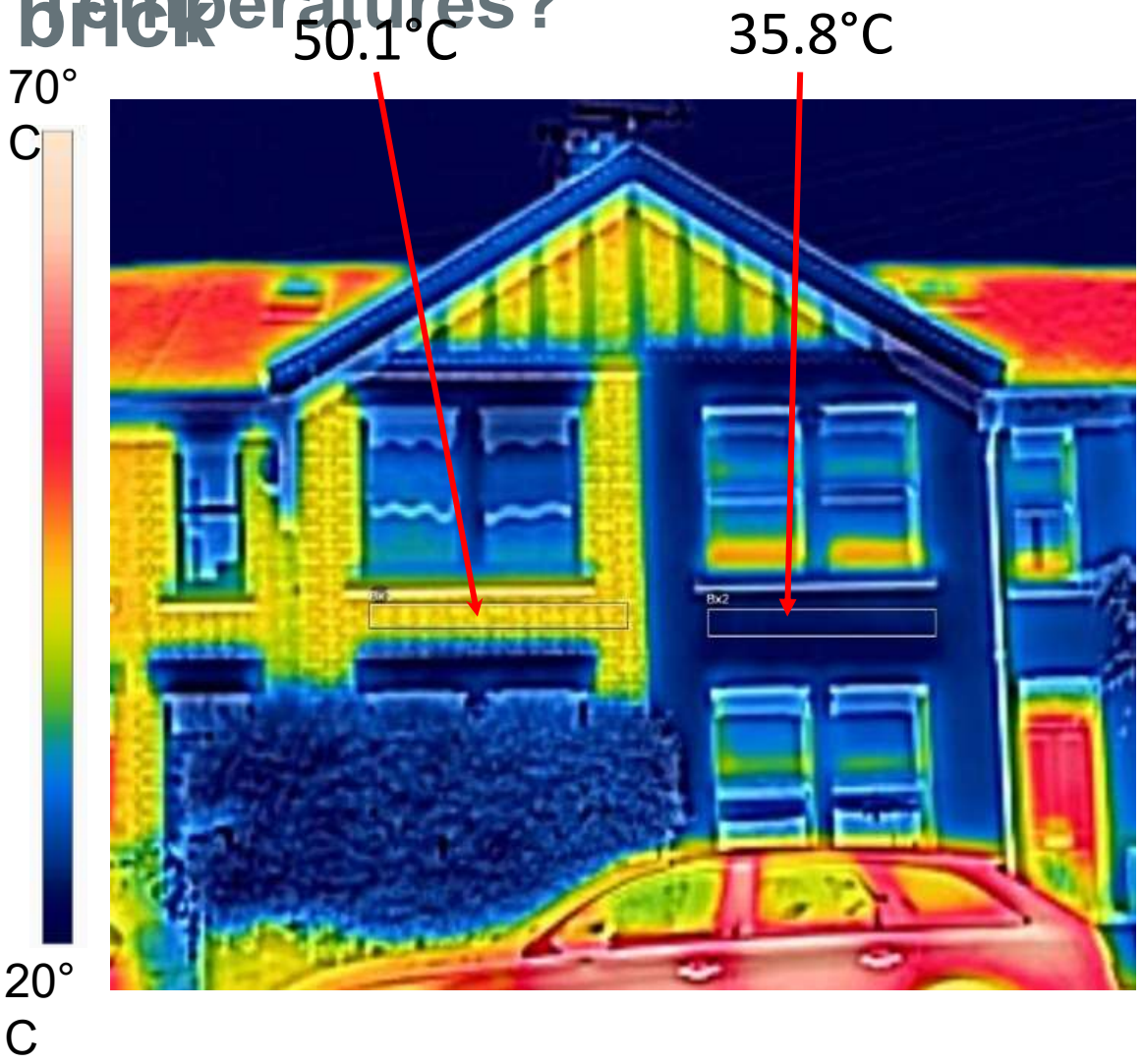
& Chains, etc
on doors

White walls are cooler than brick

Temperatures?

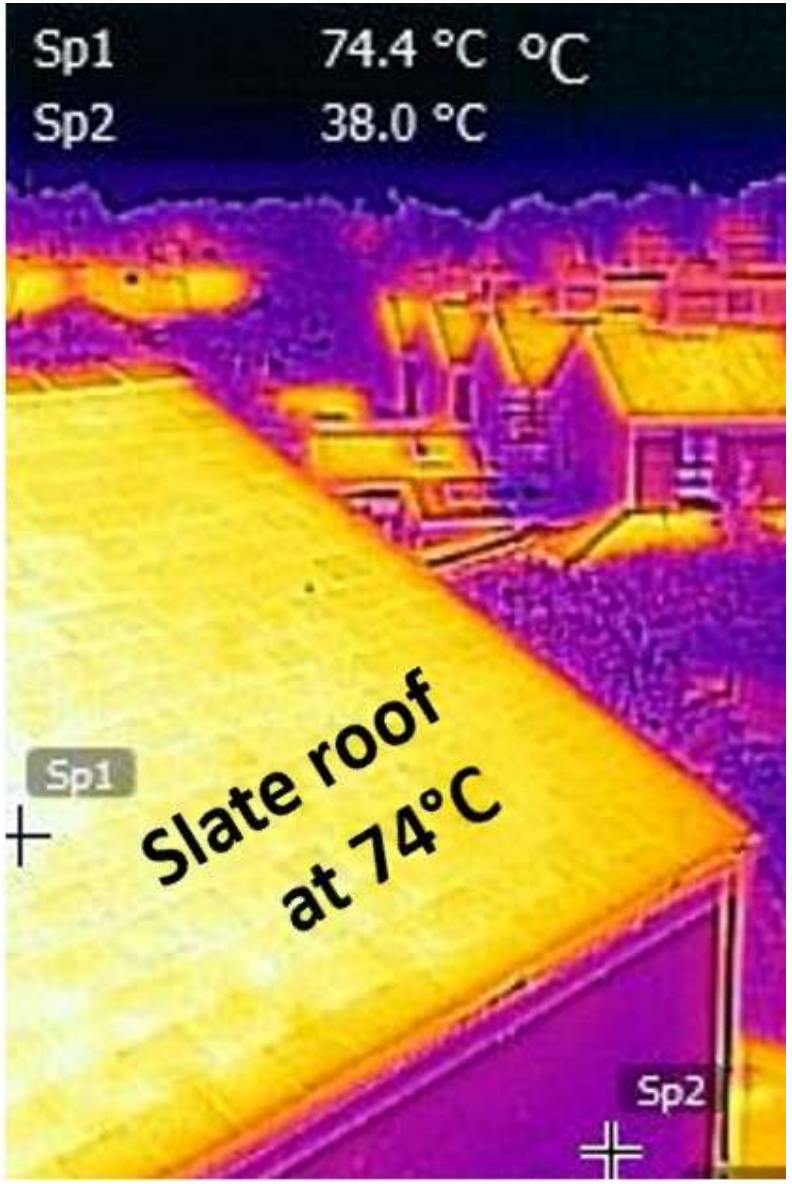
14°C cooler on the surfaces here

See blog on this for links

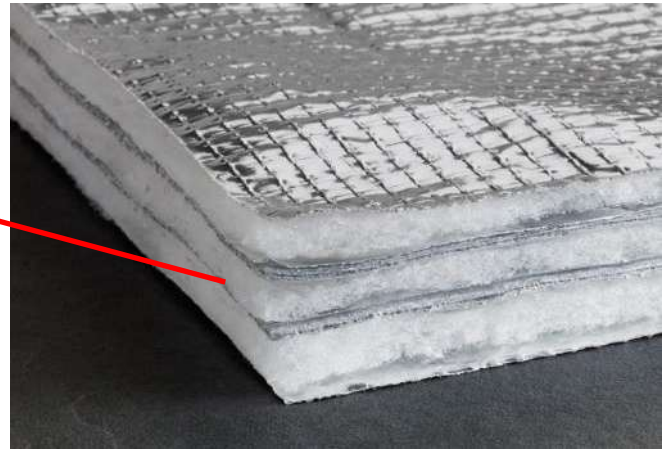


Aluminium Solar Reflective Paint for flat roofs

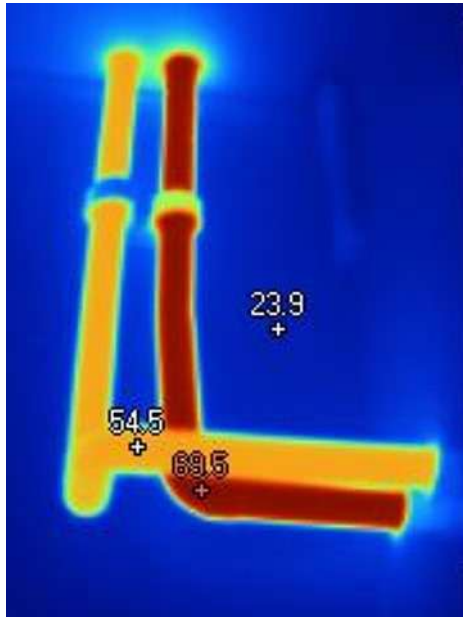
Insulation Lofts, Roofs



Multifoil Insulation effective

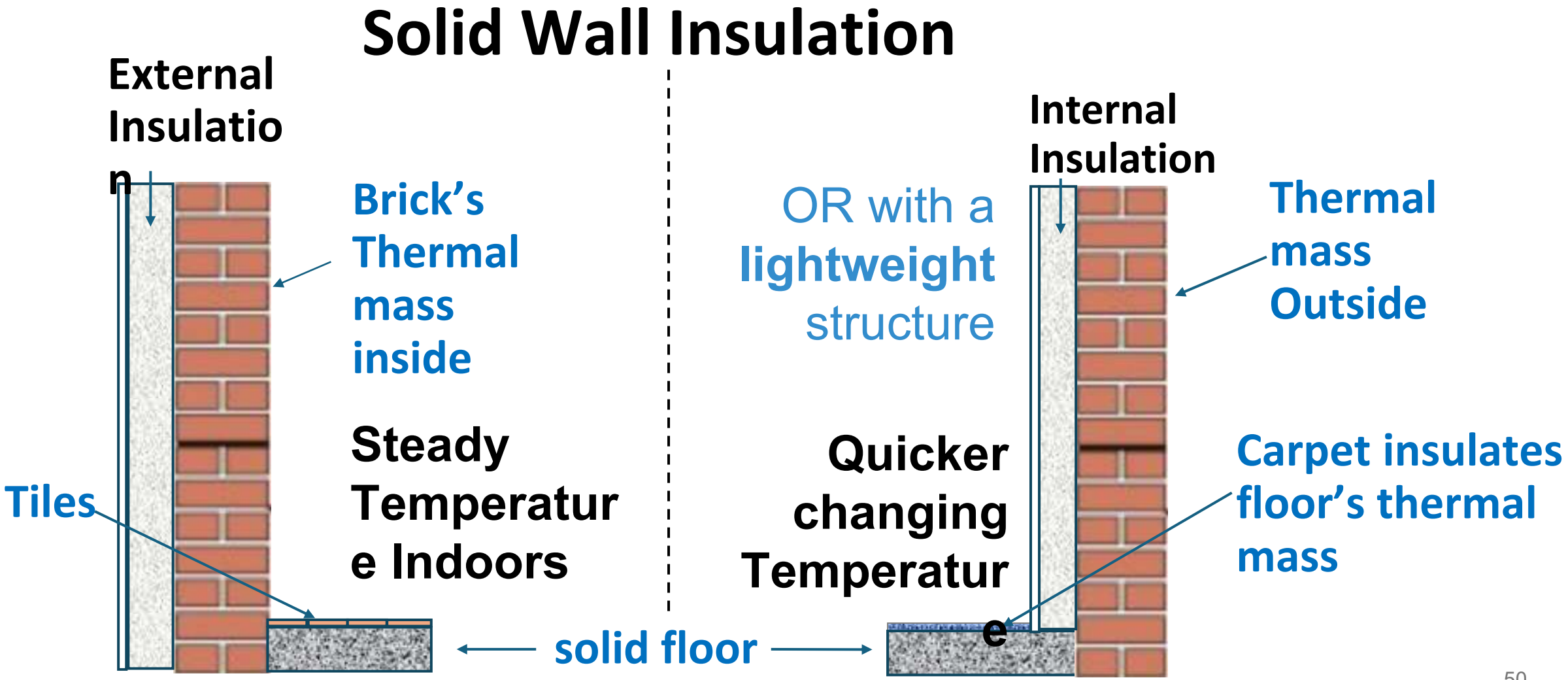


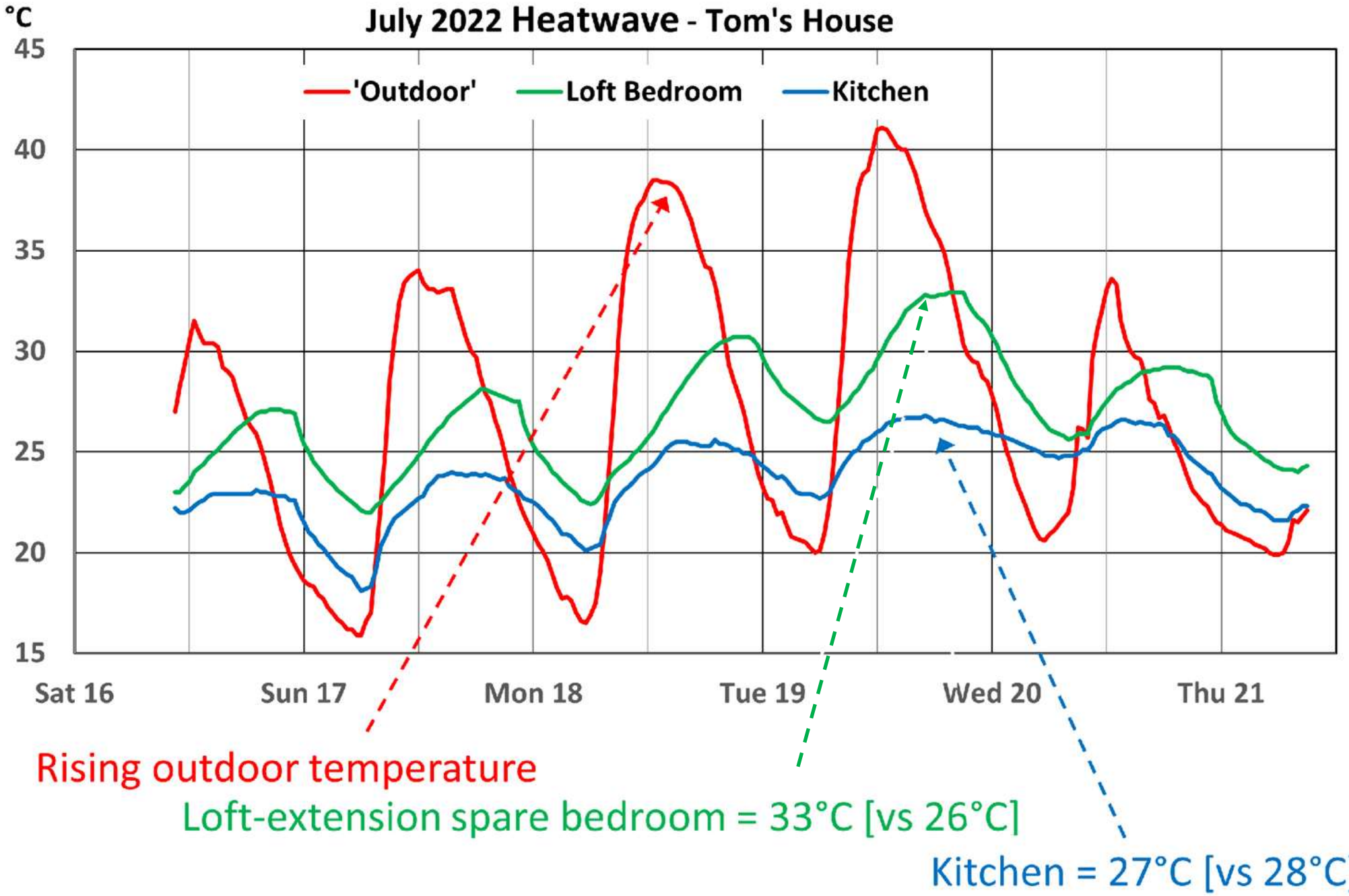
Insulate hot pipes & tanks



Thermal mass eg: brick, stone, concrete

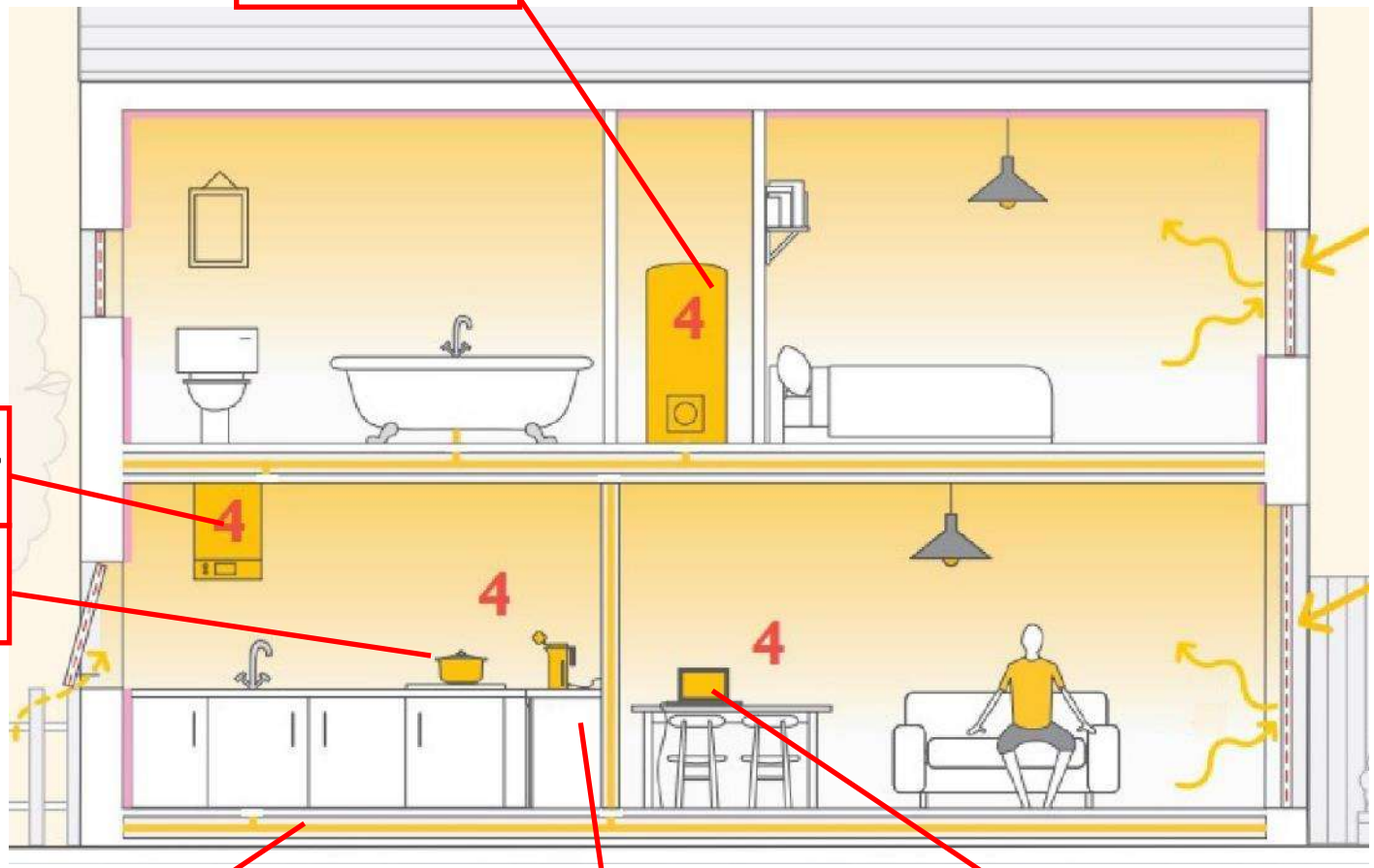
Can Steady indoor temperatures




°C
July 2022 Heatwave - Tom's House
45
40
35
30
25
20
15
'Outdoor'
Loft Bedroom
Kitchen
Sat 16
Sun 17
Mon 18
Tue 19
Wed 20
Thu 21
Rising outdoor temperature
Loft-extension spare bedroom = 33°C [vs 26°C]
Kitchen = 27°C [vs 28°C]

Unwanted Heating

Minimise these heat sources



Personal Cooling

- drinks, cool showers, fans, spray
- loose, light clothes & wide hats
- ‘hot’ water-bottle in the freezer
- sleep where it’s cooler? `
- avoid exertion when hottest: 11-3
- beware heat exhaustion/ heatstroke
- look out for your neighbours:
  old & young vulnerable NHS Advice

Our exciting new workshop will help you find innovative solutions for summer cooling and solar shading. Explore your options from cost-free and low cost to deeper retrofit with ideas for homeowners and tenants. These are interactive workshops where you can handle materials and ask questions.

Summer Shading & Home Cooling Workshop

Presented by: CAMBRIDGE RETROFIT HUB

Supported by: zero carbon communities · CAMBRIDGE CITY COUNCIL

Wednesday 8th July 2026 7:30pm - 9:30pm

Saint Andrew's Centre, School Hill, Histon CB24 9JE

Book your FREE place via Eventbrite here:

(knowing numbers helps us!)

or you can just turn up on the night!

7:00pm - 9:00pm

Monday 3rd August 2026

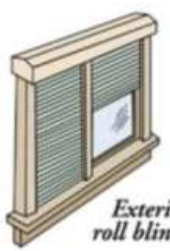
Nightingale Pavilion, Nightingale Ave, Cambridge CB1 8SQ

Book your free place (knowing numbers helps us) :

https://www.cambridgeretrofithub.org/training-and-events

or email us on cambridgeretrofithub.org

or you can just turn up on the night!



zero carbon communities

CAMBRIDGE CITY COUNCIL

CAMBRIDGE RETROFIT HUB

Cambridge Retrofit Hub is a local charitable community benefit society

Questions?

Upcoming Home Energy Events

Cambridge Retrofit Hub			
Shading & Home Cooling Workshops	St Andrews Centre, Histon CB24 9JE	Wed 8 Jul	7:30-9:30
	Nightingale Pavillion Q Edith's CB1 8SQ	Mon 3 Aug	4:00-7:00
Open Eco Homes *see details: mid-Aug*	Retrofit & Next Steps, Air Tightness Domestic Finance + Grants, Batteries Tours	4 Talks	**Mid Sept -Mid Oct**
	Varied exemplar Homes: online, in-person		

Upcoming Repair Cafes:

Coneygear Huntingdon PE29 1PE	Fri 4 Jul	12:00-3:30
Abbey People Museum of Technology CB5 8LD	Fri 10 Jul	4:00-7:00
Warboys Community Centre PE28 2RG	Sat 11 Jul	10:00-1:00
Littleport Village Hall CB6 1LX	Sat 25 Jul	2:00-5:00
Godmanchester PE29 2NB	Sat 1 Aug	1:30-4:30
Centre for Computing History CB1 3EW	Sat 15 Aug	5:00-8:00
Trumpington Meadows School CB2 9BP	Sun 6 Sep	2:00-5:00

Enjoy the hot weather ? we hope …

Feedback please: 3 questions about this talk

Donations please: help CCF do more

Further Resources on Staying C

Local:

Keeping Cool in a Heatwave CCF's Detailed PDF with links

Heatwave Preparation CCF's YouTube Playlist

Transition Cambridge's How to keep cool in summer

National:

Overheating Adaptation Guide for Homes from Shade the UK.

Beat the Heat from UK Gov.

The Heatwave Toolkit DIY, including 'Paint Yoghurt on Your Windows'!

Helping keep homes cooler British Blind and Shutter Association

How to Cope with Extreme Heat British Red Cross