

Good Homes Alliance

30th Anniversary 2019 AECB Workshop –

“30 years of greening homes”

“GHA Activity Update”

7th June 2019

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About Us



- Established in 2007 as a Community Interest Company with a membership
- 65 members (architects, planners, developers, universities, local authorities, urban designers, consultants, building professionals and suppliers)
- Aim to build and promote sustainable homes and communities and to transform the whole of mainstream UK house building into a sustainable endeavour
- Events, campaigns, consultations, position papers, lobbying and research

Our Themes



The GHA currently is focussing on four main themes:

- Measures to improve health & wellbeing, especially reducing the risk of overheating in new homes
- Identifying routes to achieve net zero or carbon positive housing
- Helping to address the housing crisis by exploring alternative housing delivery models
- Identifying and developing new methods and processes that improve the quality, sustainability and performance of new homes

GHA Vanguards Campaign Year 2



Aim: Furthering the delivery of housing built to enhanced sustainability standards

Sponsors: Airflow, Saint Gobain

Further sponsorship contracts available

Yr 2 outputs include:

Regional events in Wales (Autumn 2019) and London (20/6/2019)

Development of Knowledge Centre

GHA Overheating Solutions in New Housing Research



- **To help planners and early concept design teams identify and improve housing development proposals with a high risk of overheating**
- Developed in consultation with industry experts, planners, architects.
- **July 2019 - Launch of research/tool followed by training programme**

Sponsors: CPA, NHBC Foundation, Velux, CWCT, Berkeley Group, The Concrete Centre

Overheating Risk Tool (extract)



OVERHEATING IN NEW HOMES

Tool and guidance for identifying and mitigating early stage overheating risks in new homes



May 2019

EARLY STAGE OVERHEATING RISK TOOL Version 1.0, May 2019

This tool provides guidance on how to assess overheating risk in residential schemes at the early stages of design. It is specifically a pre-detail design assessment intended to help identify factors that could contribute to or mitigate the likelihood of overheating. The questions can be answered for an overall scheme or for individual units. Score zero wherever the question does not apply. Additional information is provided in the accompanying guidance, with examples of scoring and advice on next steps. Download accompanying guidance at www.goodhomes.org.uk/overheatingtool



KEY FACTORS INCREASING THE LIKELIHOOD OF OVERHEATING **KEY FACTORS REDUCING THE LIKELIHOOD OF OVERHEATING**

Geographical and local context

#1 Where is the scheme in the UK? See guidance for map	South east	4
	Northern England, Scotland & NI	0
	Rest of England and Wales	2
#2 Is the site likely to see an Urban Heat Island effect? See guidance for details	Central London (see guidance)	3
	Grtr London, Manchester, B'ham	2
	Other cities, towns & dense sub-urban areas	1

#8 Do the site surroundings feature significant blue/green infrastructure? Proximity to green spaces and large water bodies has beneficial effects on local temperatures; as guidance, this would require at least 50% of surroundings within a 100m radius to be blue/green, or a rural context	1
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Site characteristics

#3 Does the site have barriers to windows opening? - Noise/Acoustic risks - Poor air quality/smells e.g. near factory or car park or very busy road - Security risks/crime - Adjacent to heat rejection plant	Day - reasons to keep all windows closed	8
	Day - barriers some of the time, or for some windows e.g. on quiet side	4
	Night - reasons to keep all windows closed	8
	Night - bedroom windows OK to open, but other windows are likely to stay closed	4

#9 Are immediate surrounding surfaces in majority pale in colour, or blue/green? Lighter surfaces reflect more heat and absorb less so their temperatures remain lower; consider horizontal and vertical surfaces within 10m of the scheme	1
#10 Does the site have existing tall trees or buildings that will shade solar-exposed glazed areas? Shading onto east, south and west facing areas can reduce solar gains, but may also reduce daylight levels	1

Kindly sponsored by:



BPN: State of the Nation Research



GHA Project Management

Aim: The objective of the project is to identify current studies concerned with building performance data (energy use, thermal performance, environmental performance including temperature & relative humidity and feedback from occupants and understand how this information can be applied to improving the performance of the wider housing stock.

BEIS: National Design Competition for the Home of 2030

Ageing Society and Clean Growth Grand Challenge

“Home of 2030” Design Competition: Design and
Delivery Partner.

Addressing Performance Gap/Overheating and Quality in
Design, Construction and compliance

E-Learning platform and knowledge centre

Performance standards/Future Homes Standard/Net Zero
Whole Life Carbon

- GHA input into UKGBC Net Zero Carbon Buildings: A Framework Definition Report - Presented to Parliament on 30/4/2019
- Policy Workshop – Are Current Regs fit for purpose – Jan 2019
- APPG for Healthy Homes White Paper - Building our Future: Laying the Foundations for Healthy Homes and Buildings'

Autumn 2019: Conference



Delivering Net Zero and Future Homes

London: October/November 2019



Thank you and please consider joining the Good Homes Alliance in 2019

The Foundry

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