



High Performance Homes: Feedback, Evidence and Case Studies

29th April 2009, 13.30 –17.30pm

The Window, Islington, London N1 8QG

Plus demonstrations of monitoring equipment



*Stamford Brook,
thermographic image:*

Event kindly sponsored by:



Background

This event will focus on practical lessons from the field and draw on the expertise of Leeds Metropolitan and Oxford Brookes, together with on-site techniques for constructing thermally efficient structures from GHA developer members Greenoak and NBT consult.

There is an ever greater need for low cost solutions that lead to low carbon building fabric. Building at air tightness levels of <3 with robust thermal performance is a real challenge – our speakers will highlight their techniques and the lessons they have learnt so far. Of particular interest is a round-up of monitoring results for different build systems and an examination to see if there are any common themes emerging. We will address how developers specify thermal performance, what kit and what testing is needed, and at what stage in the build process. We will also explore what training is needed for developers to upskill themselves, and what's best left to the experienced consultant, and finally how they can cost effectively achieve the best results on site.

All of these points reinforce the importance of monitoring for the successful delivery of low carbon homes. GHA developer members all commit to 2 years post construction monitoring and the GHA will discuss progress with its own monitoring protocol.

We have invited a number of companies involved in monitoring to display their products at the event. There will be plenty of opportunities to understand their offerings and meet the companies involved.

Who should attend?

GHA members, developers, housebuilders, RSLs and client groups who want to understand the benefits that monitoring can bring, together with the costs and strategies.

To book a place at this event please email Lilja:
info@goodhomes.org.uk

Free for GHA members, £150 plus VAT (£172.50) for non members

Programme

13:30 Arrival and Light Refreshments

14.00 Chair's introduction:

Dr Fionn Stevenson, Oxford Brookes University

An overview of occupancy evaluation techniques and the issues that they can highlight. Reasons why occupancy evaluation must form a fundamental part of any effective monitoring programme.

14.15 Monitoring and building performance: an overview and round-up of recent and current case studies

Henrietta Lynch; GHA

A roundup of monitoring programmes, CSH case studies and comments on build systems and recurring issues. What does the Passivhaus approach recommend?

14.45 Building thermally efficient homes

Adrian Buffery; Development Manager – Greenoak

Greenoak's approach is to focus on robust thermal design and fabric solutions to low carbon building. What build systems and on-site techniques are they using to deliver robust, low cost, low maintenance solutions.

15.15 Lessons from experience of monitoring building fabric

Andrew Mitchell; Director, NBT Consult

NBT consult has been involved in delivering a range of developments to robust thermal standards. This talk will detail their progress, summarise their experience and results, discuss common problems and some useful lessons.

15.45 Refreshment break

An opportunity to meet and discuss with invited companies that provide monitoring kit, sensors, thermal imaging and in-house displays.

16.15 Performance control & measurement and the systems for achieving effective performance control from design to construction

Professor Malcolm Bell or Dr Jez Wingfield; Leeds Metropolitan University

The Leeds Metropolitan team have been monitoring residential developments since 1992 and over that time have built up considerable understanding of the common problems and issues. A summary of their recent findings and conclusions will be presented.

16.45 Launching the GHA monitoring programme 2009-2011
Simon Corbey, Technical manager, GHA

An effective monitoring programme for the GHA: standards and delivery.

17.00 – 17.30: Further opportunity to meet and discuss with companies that provide:

monitoring kit:

sensors,
in-house displays,
data storage,
thermal imaging cameras

and surveys:

Energy and thermal design,
air tightness surveys and
other post construction
testing together with
occupancy evaluation.