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AECB CarbonLite Programme GreenSpec



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From EAW presented by AECB

Funding



- Awarded Funding Under:
 - The Carbon Trust's Networks Programme
 - The Esmee Fairbairn Foundation
- This funding means that AECB members will soon be able to benefit from a range of resources and training workshops that will enable them to retain their market leadership in sustainable building in the UK.

Outputs

- The AECB energy performance standards will be backed up by design guidance, primers on calculating heat loss and projecting energy use in new buildings, and a series of training courses.



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CLP Output Volume

1. The Carbon Lite Programme – a summary	6. Industry solutions to the Silver Standard
2. Principles and methodologies for calculating and minimising heat loss and CO2 emissions from buildings	7. Industry solutions to the Gold Standard
3. Three energy performance standards – performance version prescriptive version	8. Education and training programme 6 courses on how to deliver low energy low CO2 buildings
4. Silver Standard detailing	9. Briefing document for clients
5. Gold Standard detailing	10. Briefing document for designers
	11. Briefing document for builders
	12. Briefing document for building users

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Dissemination

- The new CarbonLite web-site will soon be up and running.
- Members can expect to be able to download new resources from the Website some time during June

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The AECB CLP CarbonLite Programme

- offers three levels of whole building energy and CO₂ performance, for both domestic and non-domestic projects:
 - Step 1, 2 or 3
 - Step 1
 - based on AECB Silver levels of energy performance
 - Code for Sustainable Homes Level 4
 - giving 70% savings in CO₂ and 75% in primary energy
 - compared to the average stock equivalent

The AECB CLP

- Step 2
 - based on Passivhaus levels of energy performance
 - CSH Level 5
 - giving 80% savings in CO₂ and 85% in primary energy
- Step 3
 - based on AECB Gold levels of energy performance
 - CSH Level 6
 - giving 95% savings in CO₂ and 85% in primary energy

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All three steps prioritise the use of 'passive' measures,

- Thermal insulation,
- Airtightness,
- Passive solar heating
- Passive day-lighting

Current AECB membership projects following AECB standards:

- 40,000 square metres of construction aiming for Step 1 or 2
- at least 10,000 square metres of construction aiming for Step 3.

Non-members adoption:

- Other non-member developers are committed to a further significant number of large developments aiming for Step 1.
- Some early adopter projects are at concept stage, some at sketch scheme stage and others at detailed design stage or under construction – several are now complete.

Early adopters

- may be aiming for the CLP whole building energy and CO₂ targets or simply focusing on specific key aspects of performance, such as:
- designing for improved thermal performance of the building shell with lower U values and reduced thermal bridging
- lowering levels of building air leakage
- optimising day-lighting or passive solar design
- exploring low carbon lighting, heating and ventilation systems

AECB's Early Adopter workshops

- will help you:
- learn more about the AECB energy performance standards and how to achieve them through the CLP
- share concerns, problems and solutions
- Network with the growing number of developers, architects and builders who have committed to achieving genuinely low energy design and construction

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To any CPD audience presented by GreenSpec

CarbonLite Program

- Participants: AECB, CPA & GreenSpec
- Global Imperative
- Kyoto
- Building Regs., App. Docs. and Tertiary docs
- Code for Sustainable Homes
- CarbonLite Programme
- Manufacturers role

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- Building Fabric Detailing
- Robust Details Approved Document E & L
- AJ competitions to highlight weaknesses
- BRE Airtightness testing failures
- CLP Details

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- Insulation
- Airtightness
- Cold bridging
- Airtightness Testing
- Infra-red testing

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Client Business

From Global Imperative To Material Choices

Another GreenSpec CPD seminar to consider

Zero Carbon Building Targets

- Announced Dec 2006
- Code for Sustainable Homes: 2016
- Code for Other Buildings: 2012/17/18?
- Existing Buildings: 20??

GreenSpec
www.greenspec.co.uk

CLP's Advisory Board

- The AECB is also grateful to those organisations which have offered their time and expertise:
 - RIBA
 - Construction Products Association
 - Construction Industry Council
 - CIBSE
 - UCL Bartlett School of Architecture
 - National Energy Services
 - National Energy Foundation
 - and, informally, the Homebuilders' Federation.
- These bodies will all help ensure that CarbonLite learning enters the mainstream, where it is sorely needed.

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Thermal Insulation

NGS GreenSpec On-line CPD topic

Another GreenSpec CPD seminar to consider

