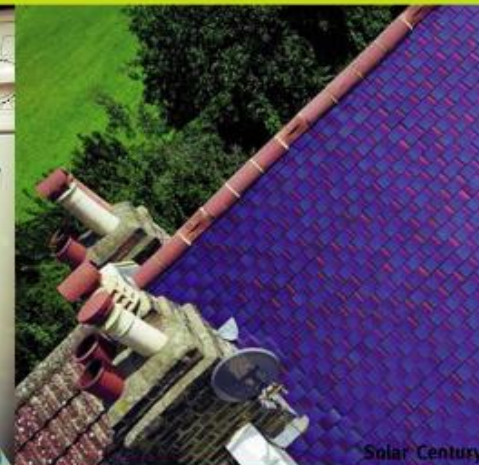
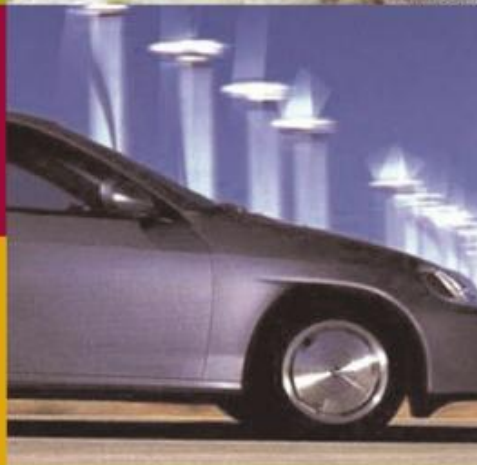


Energy
Saving
Trust



Fighting climate change
with sustainable energy



The Energy Saving Trust Best Practice Housing Programme.



Support and funding - an overview of the EST Best Practice Programme and Low Carbon Building Programme.

Pete Thompson

The Energy Saving Trust Best Practice Housing Programme.



1. About the EST.
2. About the EEBPH Programme and support available.
3. The LCBP funding.
4. Sources of other funding.

Some background information.

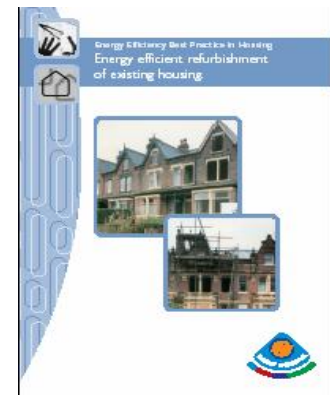
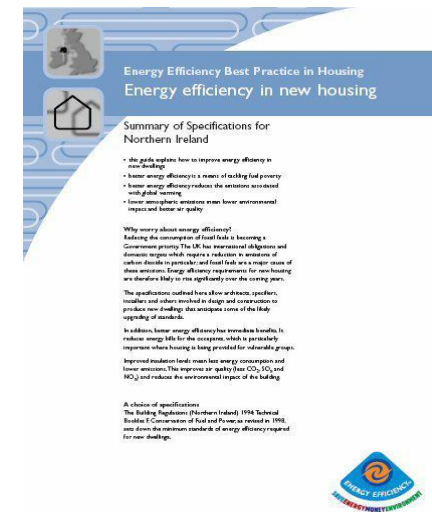
- Goal is to achieve the sustainable and efficient use of energy and to cut carbon dioxide emissions, one of the key contributors to climate change.
- EST has offices in London, Edinburgh, Cardiff and Belfast.
- Runs a variety of programmes.
- EST's focus is domestic energy and transport. The Carbon Trust focus on business and R&D.
- For more information go to www.est.org.uk

The Energy Saving Trust Best Practice Housing Programme.

Sets standards above current Building Regulations.

Purpose of the standards?

Standards that can be used in the design, construction and refurbishment of dwellings in the UK.



'Best practice' standard – 25% improvement on Part L 2006.



Office of the
Deputy Prime Minister
Energy and Climate Change

The Building Regulations 2000

Conservation of fuel and power

DRAFT APPROVED DOCUMENT

Subject to amendment prior to final publication

L1A Work in new dwellings (2006 edition)



Draft 2006 edition
subject to amendment

TER

$\times 0.75 =$



Best Practice

Additional limits also required

Why adopt the 'Best Practice' Standard?

- Next round of the building regs in 2010 looking for a further improvement of 25%.
- The link between the Code for Sustainable Homes.
- Standards referenced in the Housing Corporations Scheme Development Standards.
- Welsh Development Quality Requirements requires new homes to be built to the 'best practice' standard with no trade offs allowed for ECOHomes scoring.
- Standards being linked to LGA model planning guidance.
- Standards being considered as part of revision to the London Energy Plan.....

Why adopt the 'Best Practice' Standard?

Why are higher standards needed?

- Reduced CO₂ emissions and fuel bills
- Minimum regulatory standards represent the poorest permissible standards that are acceptable
- Aspirations of housing consumers
- Insurance that actual energy performance is not significantly greater than the predicted energy use
- Minimise management and maintenance costs
- Increase property value
- EU Directive and Energy report.....

How can the Best Practice Housing Programme support housing professionals?

Offering free training events for both new build and refurbishment activities.

Achieving airtightness: for housing professionals

This series of free, one day workshops will:

- Introduce you to the concepts behind the main 'build tight, ventilate right'.
- Detail what will be required of designers and builders in next year's building regulations.
- Provide a site visit and practical demonstration.
- Help you identify common faults and appropriate solutions.

The site visit and practical demonstration using pressure testing and infrared thermography equipment will enable you to witness the performance of the test dwellings on-site first hand and identify failure points. Site safety rules must be followed and delegates must bring with them hard hats, hi-visibility jackets and safety boots as appropriate.

A discussion and feedback session after the visit will allow interpretation of the results and a retrospective examination of the approaches, techniques and building practices employed during the dwellings' construction.

Seminars will be held in Milton Keynes, Bicester and Watford (details on reverse).

Programme
Each course will run from 10.45am - 4.30pm (registration from 10.45am onwards) and includes complimentary lunch.

Seminar agenda

10.45	Registration and coffee
11.00	Welcome and Chairman's Introduction
11.15	Ventilation and airtightness in dwellings (presentation)
12.00	Lunch
1.00	Site visit
3.00	Discussion and feedback
3.45	Rest practice workshop
4.30	Questions and close



Taking the lead: sustainable energy for planners September 2005

This series of free one day seminars will:

- Show where sustainable energy fits within the wider context of planning processes and issues, including any regional variations.
- Provide you with up to date policy guidance at local, regional and national levels.
- Provide you with practical case studies delivered by practicing professionals.

Attendees will have the opportunity to question experts, hear from local practitioners, attend workshops, and discuss areas of mutual interest with fellow professionals. They will also receive a complimentary information pack containing a range of relevant literature.

Seminars will be held in London, Manchester and Exeter (details on reverse).

Who should attend?
Local authority planning officers, council members, housing association staff and other professionals involved in planning who are interested in increasing the involvement of energy efficiency and renewable energy in the planning process.

Programme
Each course will run from 9.30am - 3.45pm (registration from 09.30am onwards) and includes complimentary lunch.

Seminar agenda

09.30	Registration and coffee
10.00	Welcome and Chairman's Introduction
10.10	National policy overview
10.30	Case study 1: Leicester City Council
10.55	Planning policy: opportunities for integrating energy efficiency and renewables
11.15	Questions
11.25	Coffee
11.40	Workshop Sessions: 1. "The big picture" 2. "The need for renewable energy and the role of planners"
12.40	Lunch
1.40	Workshop Sessions:
2.40	Coffee
3.00	Case study 2: Sherwood Energy Village
3.25	What can you do for me? - sources of information and advice on sustainable energy available to planners
3.45	Questions and close



How can the Best Practice Housing Programme support housing professionals?

Training events:

- Air tightness workshops
- RIBA/CIAT CPD events for architects
- RIBA 'Going Beyond Part L' events
- FMB/CITB 'Going Beyond Part L'
- Identifying training opportunities with HBF, NHF, HC, CIH.....

Energy efficiency is **best practice**

The Energy Saving Trust – proud sponsor of the energy efficiency category at this year's Master Builder of the Year Awards – would like to congratulate category winner, Earthdome and their client A1 lofts on their winning project. Their pioneering development of flats in Norbury, London SW16, are the first homes in London to have geothermal hot water and heating – an excellent example of best practice!



The Energy Saving Trust provides free tools and training for everyone involved in the design, construction and refurbishment of homes to make them more energy efficient, including:

- Best practice guides
- Training seminars
- Technical advice
- Interactive tools

Want to know **more?**
0845 120 7799
bestpractice@est.org.uk
www.est.org.uk/housingbuildings

The Energy Saving Trust seeks to reduce the effect of climate change by decreasing the amount of CO₂ produced by the use of energy in housing in the UK, and acts as a leading authority on energy efficiency – setting standards for the housing industry and providing technical guidance on meeting those standards.

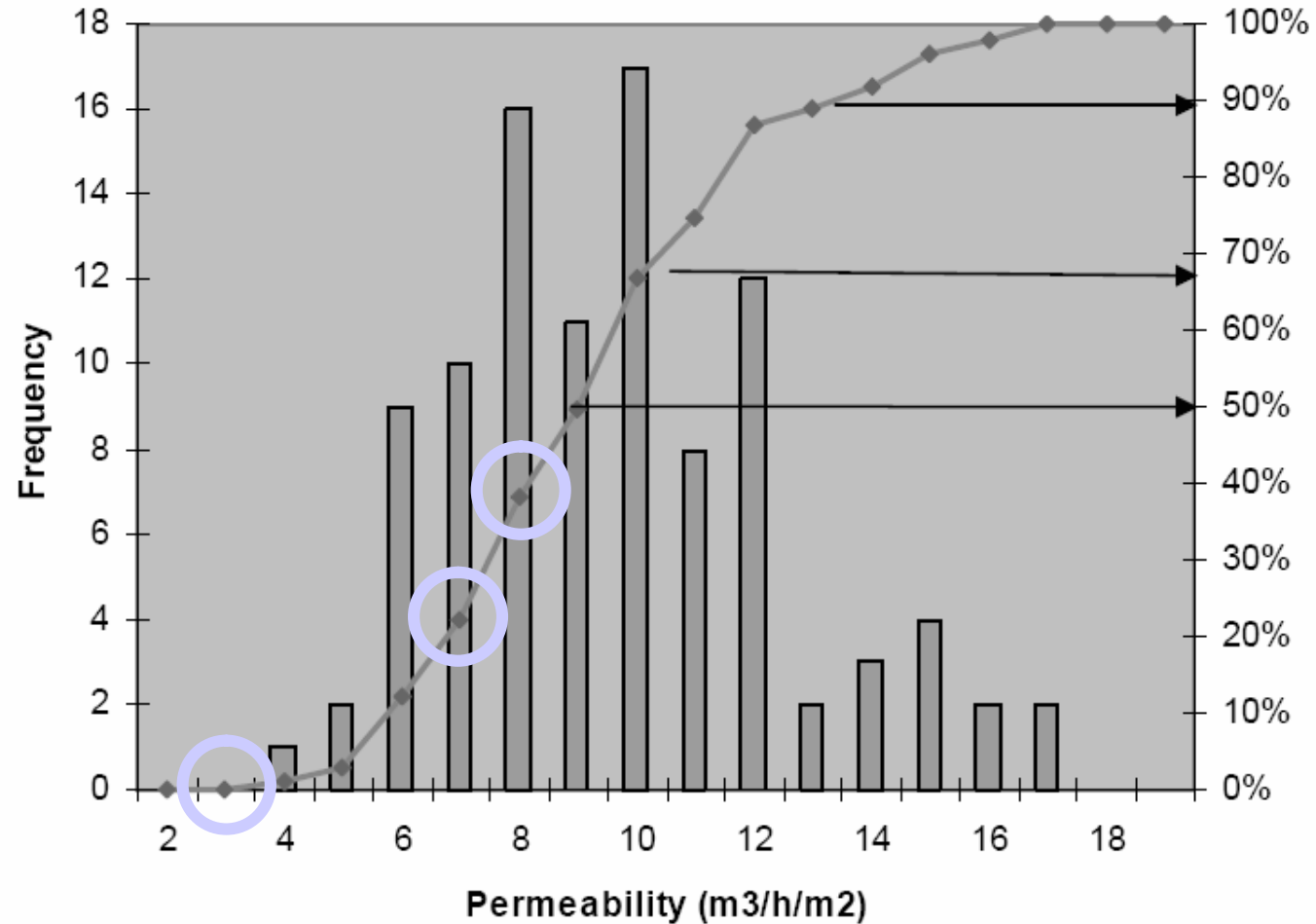


energy saving trust™

Why is airtightness important

- Reduced CO₂ emissions and fuel bills
- Improved comfort for occupants
- Reduced snagging list
- It is necessary to achieve a good standard of airtightness to satisfy the provisions of Building Regulations Approved Document L1

How do current homes perform?



What does the Energy Efficiency Best Practice Housing Programme offer?



The screenshot shows the Energy Saving Trust website's 'Housing & buildings' section. At the top left is the Energy Saving Trust logo. To its right is the text 'Housing & buildings' in blue and red, with the helpline number '0870 241 2089' below it. A navigation bar contains links for 'About EST', 'My home', 'Housing & buildings' (which is highlighted), 'Fleet & travel plans', 'Housing trade', and 'Community'. Below the navigation bar is a sub-header: 'Access information about housing & building energy efficiency or find grants, publications and events'. The main content area is divided into three columns. The left column is a vertical menu with links such as 'Housing & buildings home', 'EST and the built environment', 'Local authorities & housing providers', 'Building professionals' (highlighted in blue), 'Renewable energy', 'Building regulations', 'Community energy', 'Company energy services packages', 'Funding & grants', 'Helpful tools', 'Publications & documents', 'Case studies', 'Events, training and schemes', 'News centre', 'Technical advice form', and 'Links'. The middle column is titled 'Building professionals' and features an image of construction workers. The text in this column explains that to achieve sustainable building, one must consider the environmental impact of materials and that planning is becoming more important as new sites and infrastructure are developed. It states that the Energy Saving Trust provides information to help with this. The right column is titled 'Latest News' and contains two news items: 'Aberdeen primary schools investigate renewable energy' and 'Electricity generated through bobbing of waves', both with right-pointing arrows.

energy saving trust

Housing & buildings
Helpline 0870 241 2089

About EST | My home | **Housing & buildings** | Fleet & travel plans | Housing trade | Community

Access information about housing & building energy efficiency or find grants, publications and events

Housing & buildings home
EST and the built environment
Local authorities & housing providers
Building professionals
Renewable energy
Building regulations
Community energy
Company energy services packages
Funding & grants
Helpful tools
Publications & documents
Case studies
Events, training and schemes
News centre
Technical advice form
Links

Building professionals

To achieve sustainable building we need to consider the environmental impact of materials we're using to reduce energy consumption in the home. Planning is also becoming more important as it determines the density of new sites and their infrastructure. As priorities change and the house building industry adapts, the Energy Saving Trust will continue to provide the information that lights the way.

We define building professionals as those involved in specifying, planning or installing measures to promote the sustainable use of energy in homes, aside from the home's occupants.

We offer [information on energy efficiency](#), set standards for the housing industry that go beyond current [building regulations](#), and provide [technical guidance](#) on meeting those standards. The standards, covering Good Practice, Best Practice and Advanced Practice, provide an integrated package of measures for all aspects of new build and refurbishment. For more information on these standards, [click here](#) if you are in England, Scotland and Wales, or [click here](#) if you are in Northern Ireland.

We also provide [tools](#) and [training](#) to those involved in the design, construction and refurbishment of UK domestic housing.

You can register for regular email updates for building professionals [here](#).

Find out more about how the building regulations affect energy efficiency and you [here](#).

Latest News

[Aberdeen primary schools investigate renewable energy](#) →

[Electricity generated through bobbing of waves](#) →

www.est.org.uk/housingbuildings/

What does the Energy Efficiency Best Practice Housing Programme offer?

About EST | **My home** | **Housing & buildings** | **Fleet & travel plans** | **Housing trade** | **Community**

Access information about housing & building energy efficiency or find grants, publications and events

- Housing & buildings home
- EST and the built environment
- Local authorities & housing providers
- Building professionals
- Renewable energy
- Building regulations
- Community energy
- Company energy services packages

Robust details

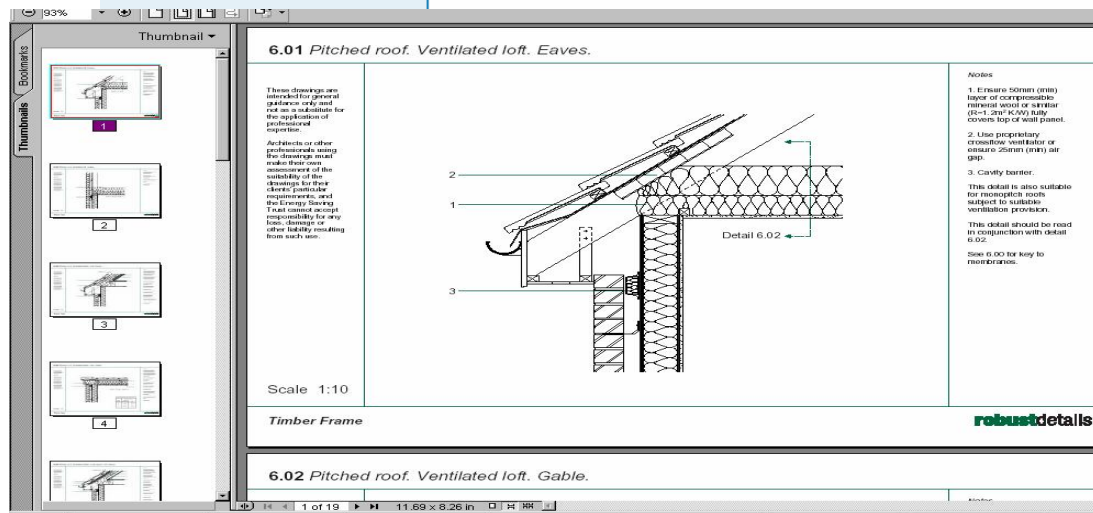
Use these CAD drawings for general guidance on insulation options in a variety of building configurations. Each drawing is available in four compressed formats, making it easy to download and save or print.

You will need Adobe Acrobat Reader in order to view these files. If you don't already have Acrobat Reader, [click here](#) to download this software for free.

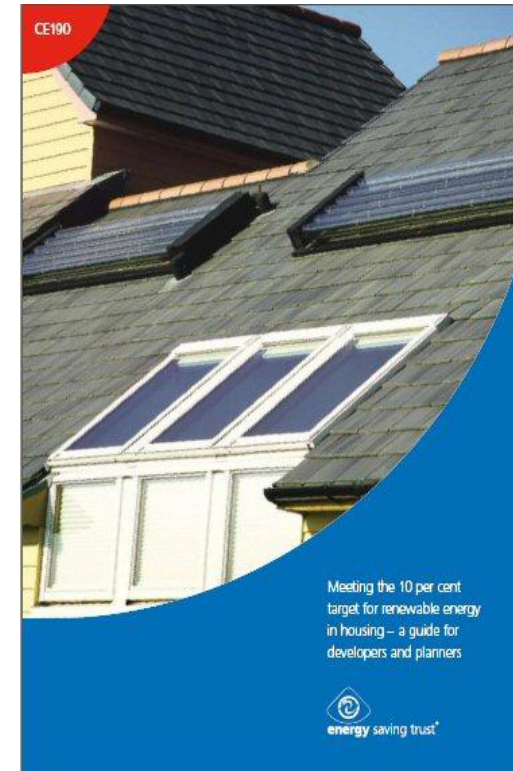
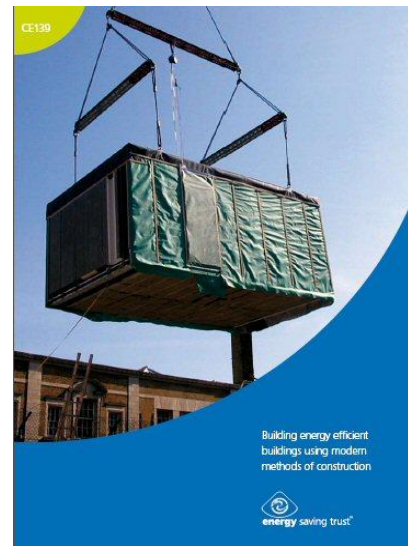
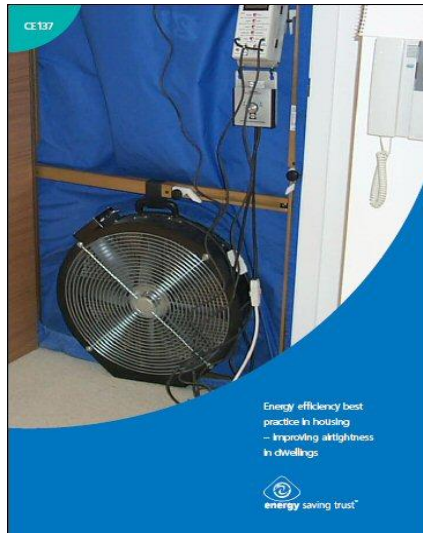
Please note: These drawings are not intended as a substitute for professional advice. For free technical advice on energy efficiency and renewable energy [click here](#).

Select a Chapter

- [1. General Arrangements](#)
- [2. Light Steel Frame](#)
- [3. Masonry External](#)
- [4. Masonry Full Fill](#)
- [5. Masonry Internal](#)
- [6. Masonry Partial Fill](#)
- [7. Timber Frame](#)



Source of technical information:







What does the Energy Efficiency Best Practice Housing Programme offer?

Free Technical Help line and consultancy to housing professionals.

- Call the Hotline on 0845 120 7799
- Produce technical reports – e.g. overheating and thermal mass.....

The Energy Efficiency Best Practice Housing Programme.

Energy Window	
	Window Ltd. XYZ 68/abc
	
Energy Index (kWh/m ² /year) <small>(Energy Index certified by BFRC and based on UK standard window. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature)</small>	-14
The climate zone is:	UK
Thermal Transmittance (U-value)	1.7 W/m ² K
Solar Factor (g-value)	0.50
Air Leakage (L-value)	0.10 m ³ /m ² /h
 www.bfrc.org 	
<small>This label is not a statutory requirement. It is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.</small>	

Note: Example label only

Works with other EST programmes:

- EST Devolved Administrations and Regional work...

Work with other organisations:

- Energy Efficiency Partnerships for Homes Groups, including Glazing, Lighting, Heating, and Hard to Treat Homes Groups. For instance Best Practice has supported the development of the Glazing Rating Scheme

Work with other organisations:

Developed and funded an 'Energy Efficiency' Award category for the FMB Master Builder of the Year Awards.

- Supporting LGA's model planning guidance.
- Trained NHBC Senior site inspectors.
- Royal Institute of British Architects – working with RIBA's to provide training for Architects.
- Instrumental in driving forward tighter standards in the Building Regulations through work with DCLG and others.
- Input into the Code for Sustainable Homes

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energy saving trust™

How can the Best Practice Housing Programme support housing professionals?

Looking to provide a technical outreach element of the programme to support the delivery of social and private sector housing built to the best practice standards

- **On offer – Limited degree of free technical support plus EST marketing support.**

The Energy Efficiency Best Practice Housing Programme.

**For more information on
Energy Efficiency Best Practice
Housing Programme:**

www.est.org.uk/bestpractice

Email: bestpractice@est.org.uk

Hotline: 0845 120 7799

EST Housing and Funding Database

- Go to

<http://www.est.org.uk/housingbuildings/funding/database/>