

# UrbanBuzz

Building sustainable communities

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**Sustainable Design**  
**Training Programme**



[www.urbanbuzz.org](http://www.urbanbuzz.org)



# Sustainable Design Training Programme

- Project focussed at delivering knowledge transfer to the town planning community – principally town planning officers
- Live case studies (planning applications) being critiqued by expert panel of academics – Sustainable Design Review Panel
- Output from Panel's considerations being used as basis for Workshops on Sustainable Design with planning officers
- Subject covered by Panel include – energy, inclusive design, accessibility, materials, water, lighting, acoustics, air quality, urban ecology, secured by design

# The Sustainable Design Dilemma

Towards an  
Urban Renaissance

- Continued pressure to speed up the planning process – planning departments continually squeezed by tighter targets
- Since Urban Task Force ('99) design and quality of design have become headline issues for planning
- During same period sustainability agenda has gained momentum – placing ever more onus of design – inside and outside buildings
- Go back 15 years and key concerns were – what does it look like and how many car parking spaces
- Now – planning officers are meant to be experts in all the technical disciplines

# Building Control vs Planning Control

- Planners have to be experts until 2016/2019 – thereafter hand back to Building Control

- Building Regulations vs Merton Rule

- 2 bedroom flat – carbon emission

- Building Regulations

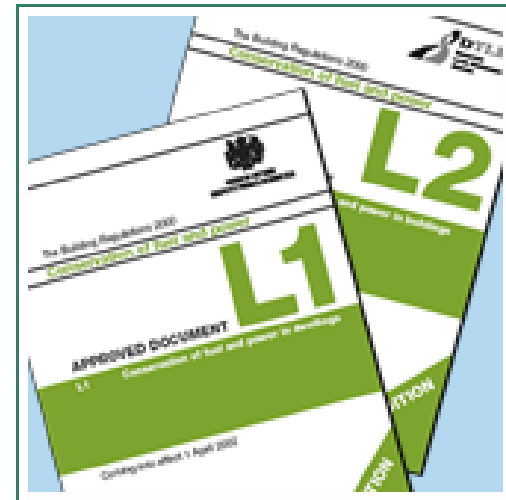
0.9 tonnes carbon / yr

- Code Level 4

0.5 tonnes carbon / yr

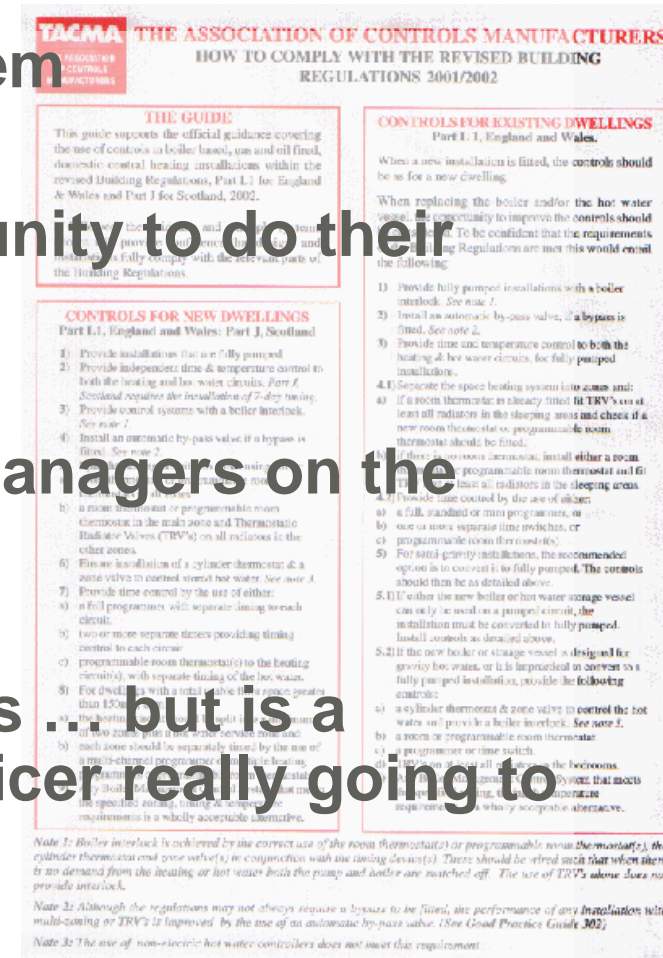
- Power Consumption

0.8 tonnes carbon / yr




# Sustainable Design Training Programme

- Planning is a bottle-neck in the system
- How do we help the planning community to do their jobs?
- Same issue faced by development managers on the other side of the 'fence'
- There are countless technical reports ... but is a development manager or planning officer really going to read these?



# Sustainable Design Training Programme

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- Simple Principles
  - Rules of Thumb / Ball Park Figures
  - Essential knowledge

# Rules of Thumb

Average UK household - carbon emissions

1      3      **6**      10      20      100

Average UK car – carbon emissions

1      **3**      6      10      20      100

(Measured in tonnes of CO<sub>2</sub> per year)

# Rules of Thumb

New Build – 4 bed house - carbon emissions (Build Regs)

1      2      3      **4**      5

New Build – 2 bed flat – carbon emissions (Build Regs)

0.1      0.5      **0.8**      1      4

(Measured in tonnes of CO<sub>2</sub> per year)

Area of Solar Water Panels required to offset 1 tonne/yr

4      8      **12**      16      20



# Rules of Thumb

How much potable water consumed per person per day?

10      50      100      **150**      200  
(UK average - measured in litres/day)

How far is a “short walk” to the shops / park?

100m    200m    **500m**    1000m    2000m  
(measured in metres)

What distance of blank façade tends to cause a pedestrian to turn around (measured in metres)?

50m      100m      150m      **200m**      400m

# Pulling the Wool

Ever come across a:

**DUAL FUEL  
BIOFUEL CHP  
SYSTEM**

