
The Role of Design

Derwenthorpe, York

Code for Sustainable
Homes 4 and 5

Community heating

Equitable tenure

Prototyping and testing



The Role of Design

Delivering zero carbon



The Role of Design

Construction

Inner leaf first:

watertight early

insulation visible

large format insulation
boards

facing brick off the
critical path



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Testing and measurement

Type 'A' Prototypes



The Role of Design

Prototypes

design intention delivered?
systems performed?
supply chain robust?
interfaces communicated?
sub-contractors performed?
product substitutions?
modelling correct?

lessons for volume build



The Role of Design

Testing

Co-heating test

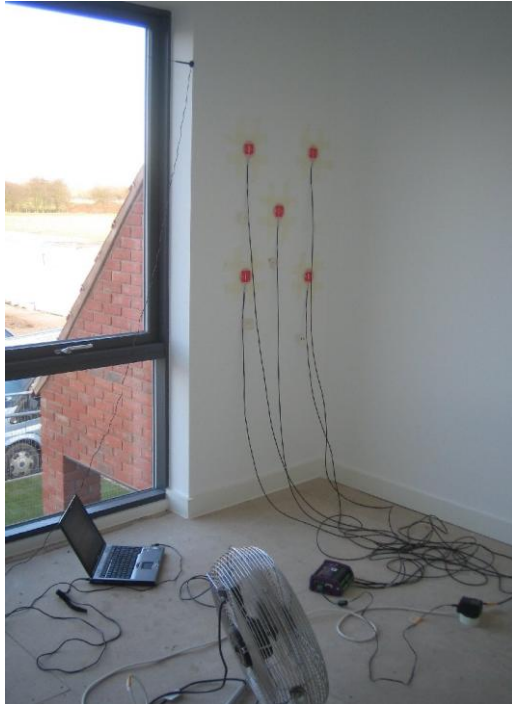
Thermography

Heat flux measurements

Systems efficiency

Air pressure and gas
depletion measurement

Variable U-value

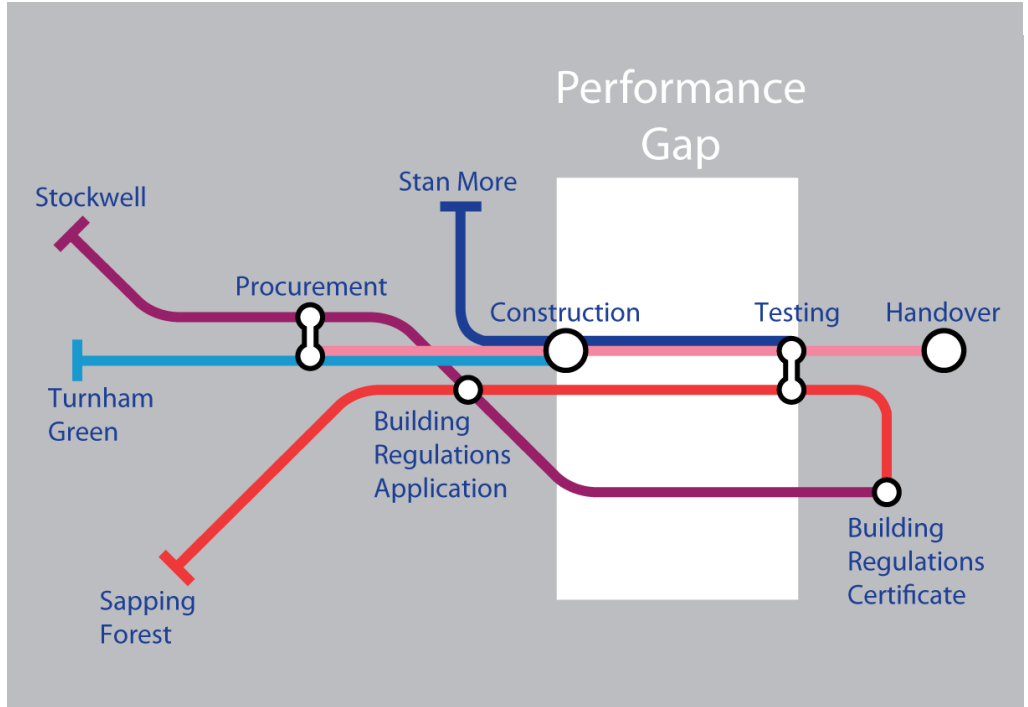


The Role of Design

Mind the Gap

Key to lines

- Designers**
- SAP Assessor**
- Manufacturer's Information**
- House Builder**
- Sub Contractor Design**

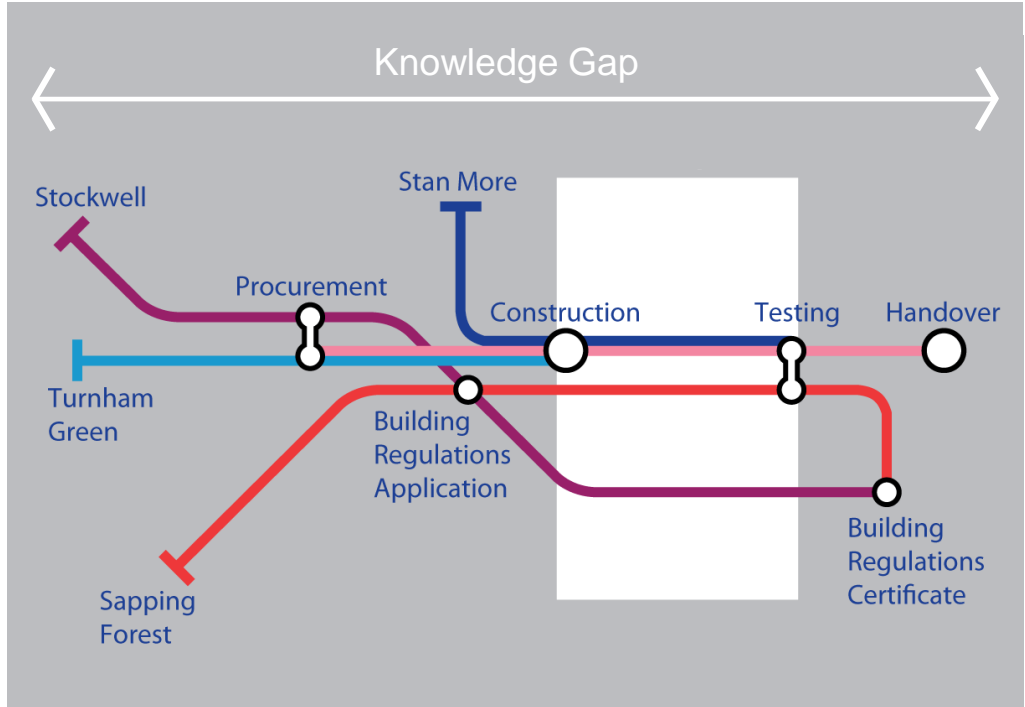


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NHBC Foundation NF 28

NHBC Foundation NF 37

ZCH Best Practice:

<http://www.rparchitects.co.uk>

