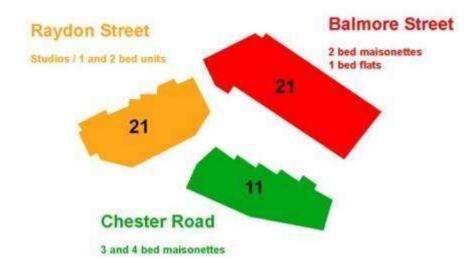
#### 53 units

- · 23 Social Rent ('Affordable')
- 4 intermediate (Shared Ownership)
- 26 Private Ownership



#### Residential standards

 HCA (Homes and Communities Agency) Space Standards / Housing Corporation's Design and Quality Standards

1 bed 2 person = 51sqm

2 bed 4 person = 70sqm

3 bed 5 person = 96sqm

4 bed 6 person = 106sqm

Housing Quality Indicators (HQI)

Assessed on units size, unit layout and unit services

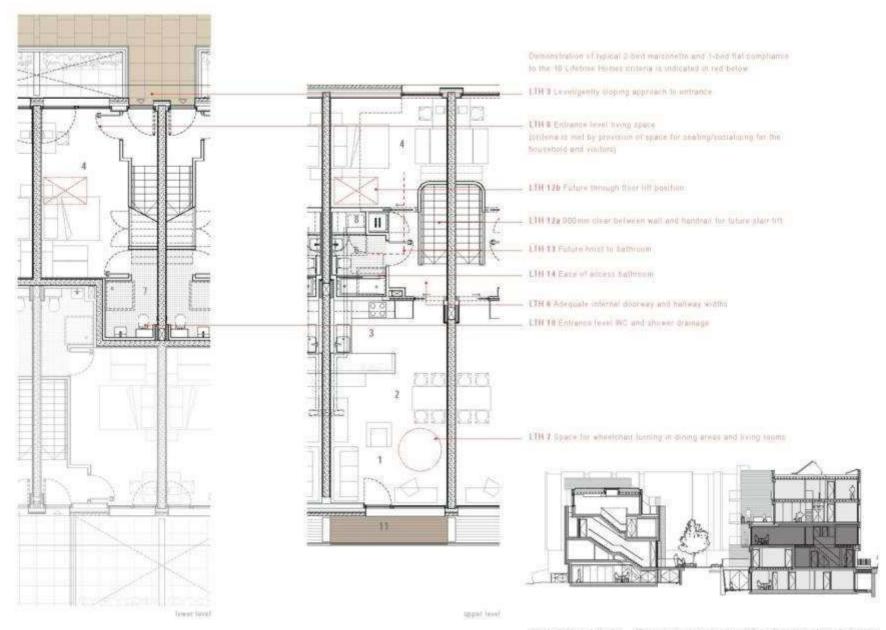
Lifetime Homes

16 design criteria Inclusivity, Accessibility, Adaptability, Sustainablility, Good Value

- . Wheelchair Housing Design Guide
- Mayor of London Housing Design Guide
- Building for Life

Environment and Community Character, Streets, Parking and Pedestrianisation and Design and Construction

Secured by Design



Typical Unit - 2-bed maisonette Balmore Block





#### Heat loss form factor

Element	U value
External wall	0.12
Roof	0.1
Ground floor	0.13













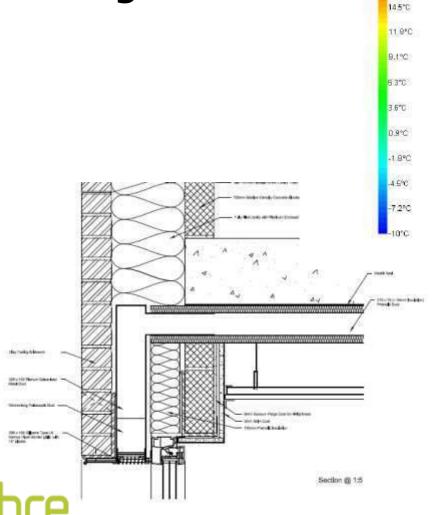


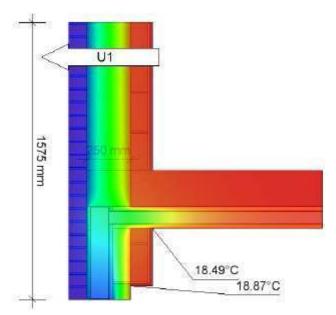






# Detailing





17.210

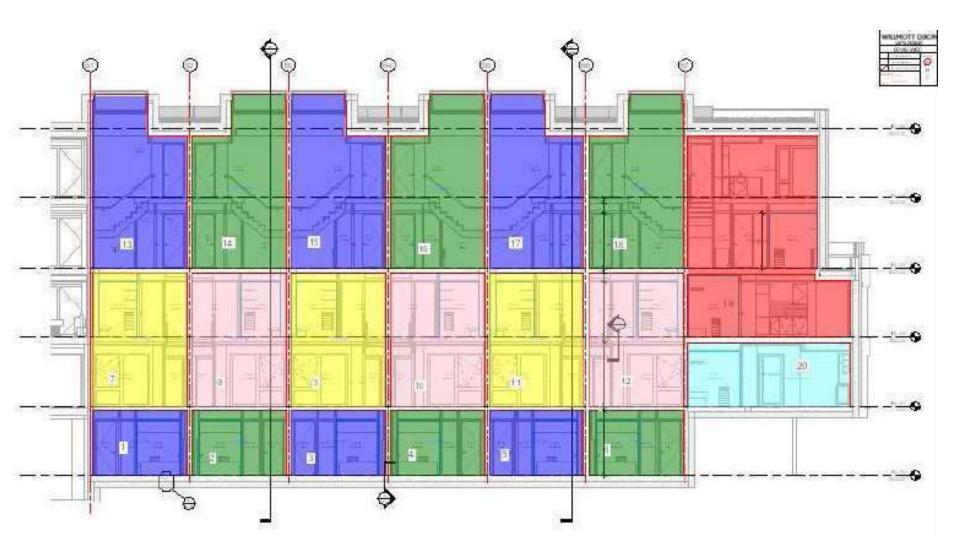


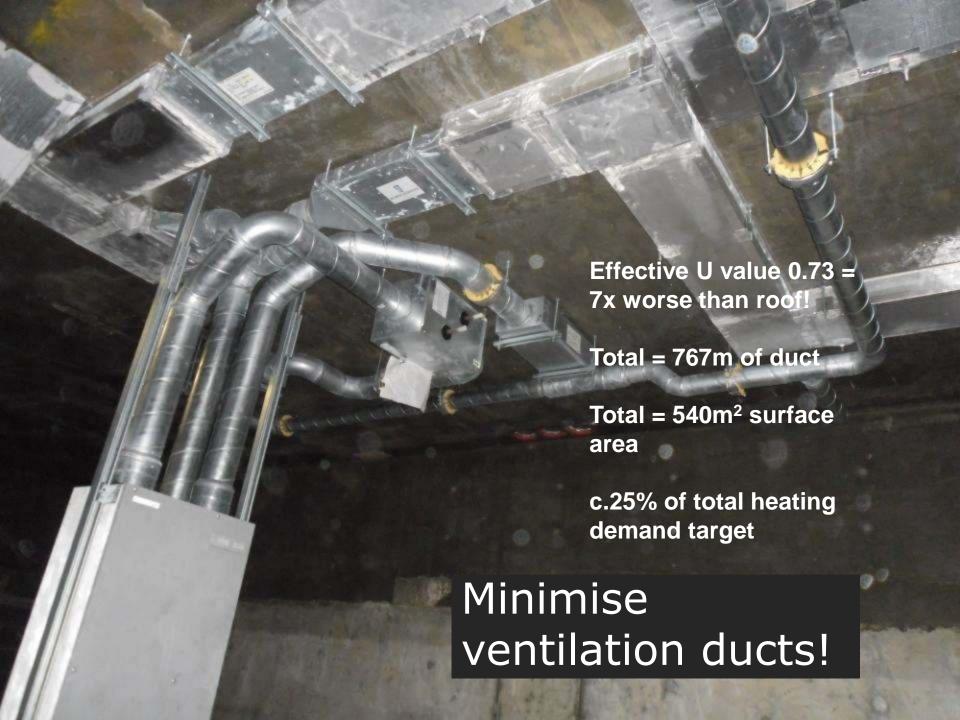






### Air permeability testing volumes







## Primary energy demand

Communal boilers and thermal store

LTHW distribution losses

Lifts, pumps, towel rails, external and communal lighting... it all adds up!











### Other challenges

Staff continuity & quality control – internally and subcontractors

Keeping to programme – particularly air testing







#### What works well on a large scale project?

- Geometry and heat loss
- Economies of scale –
  components, specification, site
  supervision resources
- Repetition of details & testing
- Presents good opportunity for monitoring and understanding users + performance





