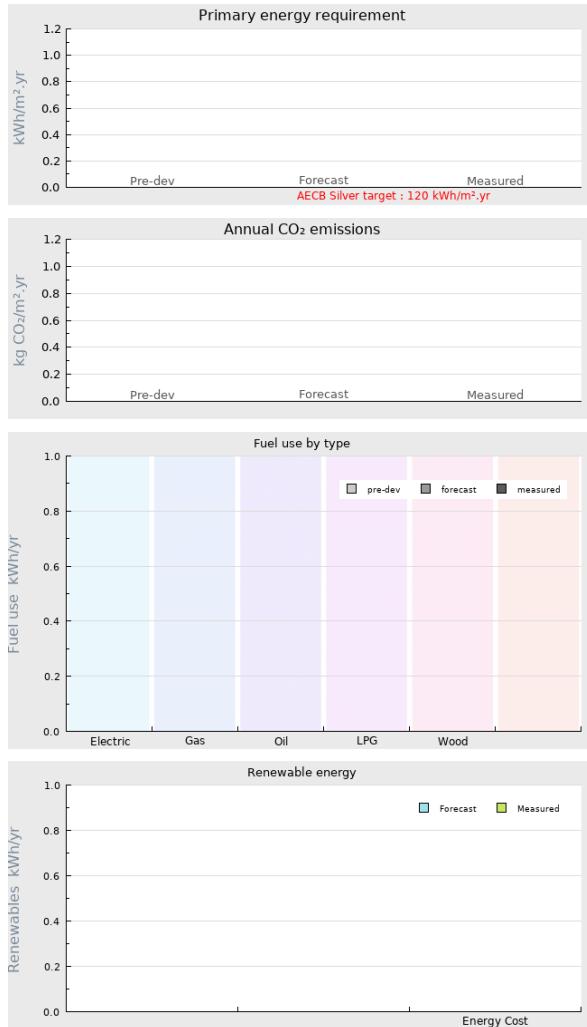


## Project name Bowker Street: Terrace C

**Project summary** 24 Homes. 12 to AECB Silver. Terrace A = 8 AECB Silver homes Terrace C = 4 AECB Silver homes



## Project Description

Projected build start date

Projected date of occupation

Project stage Occupied

Project location Salford, Manchester, England

Energy target AECB Silver

Build type New build

Building sector Public Residential

Property type Mid Terrace

Existing external wall construction Softwood frame

Existing external wall additional information Brick, cavity, timber frame

Existing party wall construction

Floor area 300 m<sup>2</sup>

## Project team

Organisation

Project lead Identity Consult

Client Countour Housing Group

Architect Ainsley Gommon

Mechanical & electrical consultant(s) Green Building Store

Energy consultant(s) LEAP: Low Energy Architectural Practice

Structural engineer

Quantity surveyor

Other consultant

Contractor Seddon Construction

## Design strategies

Planned occupancy Standard residential occupancy

Space heating strategy Gas condensing boiler to radiators

Water heating strategy Gas condensing boiler

Fuel strategy Natural gas

Renewable energy generation strategy

Passive solar strategy Southern orientation

Space cooling strategy Openable windows

Daylighting strategy

Ventilation strategy Windows for summer ventilation.MVHR for winter ventilation.

Airtightness strategy OSB with taped joints.Membranes with taped joints to key locations.

Strategy for minimising thermal bridges Minimise thermal bridging where possible. Account for thermal bridges where they have not been addressed in a robust fashion.

Modelling strategy PHPP

Insulation strategy Account for timber fraction.

Other relevant retrofit strategies

Other information (constraints or opportunities influencing project design or outcomes)

## Energy use

### Fuel use by type (kWh/yr)

Fuel	previous	forecast	measured
<b>Electric</b>			
<b>Gas</b>			
<b>Oil</b>			
<b>LPG</b>			
<b>Wood</b>			

### Primary energy requirement & CO2 emissions

	previous	forecast	measured
<b>Annual CO2 emissions</b> (kg CO2/m <sup>2</sup> .yr)	-	-	-
<b>Primary energy requirement</b> (kWh/m <sup>2</sup> .yr)	-	-	-

### Renewable energy (kWh/yr)

Renewables technology	forecast	measured
-		
-		
<b>Energy consumed by generation</b>		

### Airtightness ( m<sup>3</sup>/m<sup>2</sup>.hr @ 50 Pascals )

	Date of test	Test result
Pre-development airtightness	-	-
Final airtightness	11 Sep 2014	1.48

### Annual space heat demand ( kWh/m<sup>2</sup>.yr )

	Pre-development	forecast	measured
<b>Space heat demand</b>	-	34	-

Whole house energy calculation method

PHPP

Other energy calculation method

Predicted heating load

17 W/m<sup>2</sup> (demand)

Other energy target(s)

## Building services

Occupancy

Space heating

Hot water

Ventilation

Controls

---

Cooking

Lighting

Appliances

Renewables

Strategy for minimising thermal bridges

## **Building construction**

Storeys

Volume

Thermal fabric area

Roof description

Roof U-value

Walls description

Walls U-value

Party walls description

Party walls U-value

Floor description

Floor U-value

Glazed doors description

Glazed doors U-value

Opaque doors description

Opaque doors U-value

Windows description

Windows U-value

Windows energy transmittance  
(G-value)

Windows light transmittance

Rooflights description

Rooflights light transmittance

Rooflights U-value

---

## Project images













