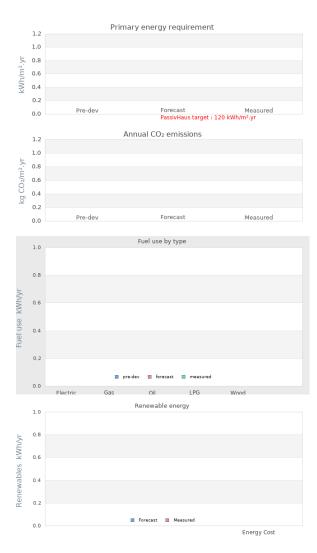


https://www.lowenergybuildings.org.uk/

## Project name Ravenscroft, Cheddar, Somerset

**Project summary** A 162m2 single storey self build in Cheddar. This property has been designed with two bedrooms both with ensuite bathrooms, at each end of the home separated by a large glazed kitchen and living room.



# **Project Description**

Projected build start date	01 Jan 2019		
Projected date of occupation	01 Jan 2020		
Project stage	Occupied		
Project location	Cheddar, Somerset, England		
Energy target	PassivHaus		
Build type	New build		
Building sector	Private Residential		
Property type	Detached		
Existing external wall construction	Softwood frame		
Existing external wall additional information			
Existing party wall construction			

Floor area	162 m <sup>2</sup>
Floor area calculation method	PHPP

## **Project team**

Organisation	Beattie Passive
Project lead	
Client	
Architect	
Mechanical & electrical consultant(s)	
Energy consultant(s)	
Structural engineer	
Quantity surveyor	

## **Design strategies**

Contractor

Other consultant

Planned occupancy

Space heating strategy

Water heating strategy

Fuel strategy

Renewable energy generation strategy

Passive solar strategy

Space cooling strategy

Daylighting strategy

Ventilation strategy

Airtightness strategy

Strategy for minimising thermal bridges

Modelling strategy

Insulation strategy

Other relevant retrofit strategies

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

# **Energy use**

Fuel use by type (kWh/yr)

	,	<b>71</b> \	,
Fuel	previous	forecast	measured
Electri c			
Gas			
Oil			
LPG			
Wood			

Fuel previo		forecast	measured

#### Primary energy requirement & CO2 emissions

	previous	forecast	measured
Annual CO2 emissions (kg CO2/m².yr)	-	-	-
Primary energy requirement (kWh/m².yr)	-	-	-

#### Renewable energy (kWh/yr)

Renewables technology	forecast	measured
-		
-		
Energy consumed by generation		

#### Airtightness ( m³/m².hr @ 50 Pascals )

	Date of test	Test result	
Pre-development airtightness	-	-	
Final airtightness	-	-	

#### Annual space heat demand ( kWh/m².yr )

	Pre-development	forecast	measured	
Space heat demand	-	-	-	

١	Ν	hol	е	house	energy	calcu	lation	meth	าด

Other energy calculation method

Predicted annual heating load

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**











