

# A step-change innovation delivering a complete Passive build system

At todays build cost



# Coventry Eco houses 2x3 Bed 86m<sup>2</sup> detached Houses

#### **Original design:**

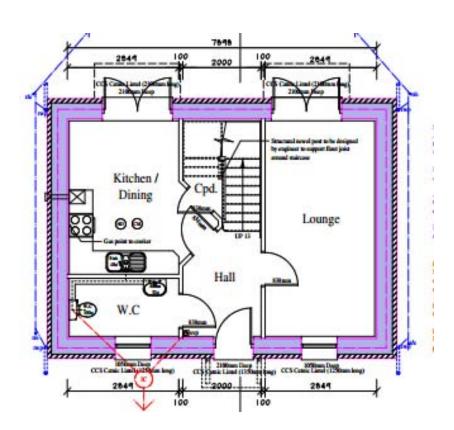
- 1 built to Code 6
- 1 built to Passivhaus certified

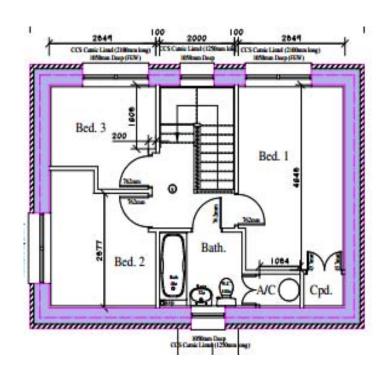
#### **Using Beattie Passive:**

Both houses are built to Passivhaus standard



#### Simple 86m<sup>2</sup> detached house







#### **U-Values**

Ground floor

 $.08W/m^2k$ 

Walls

 $.08W/m^2k$ 

Ceiling

 $.08W/m^2k$ 

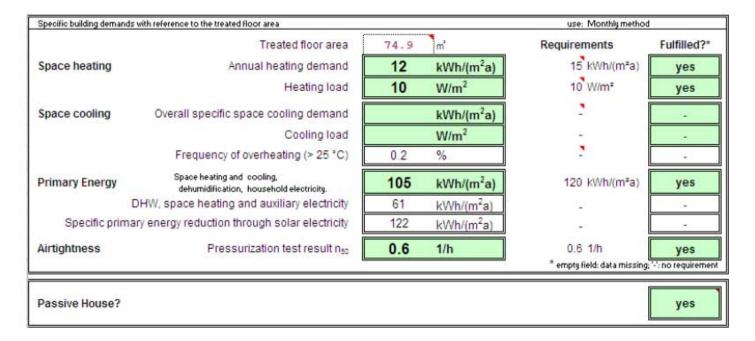
• Air tightness

.4.23/hm(@50pa)



#### **PHPP**

#### Performance outputs:





## Completed house





#### **Clearing of site**





#### Foundation pads on clay soil





#### **Concrete Foundation**





#### Clear site, dig and concrete fill foundation pads

Digger Hire £760.00

Muck away £550.00

Concrete £1110.00

Labour £900.00

Total £3320.00



#### Service pipes laid





#### **Services, DPM Radon Barrier and concrete beams**





#### **Services DPM Foundation beam cost**

Services	£400.00
DPM Radon barrier Foundation beams	£550.00 £2300.00
Digger hire	£370.00
Labour	£350.00
Total	£3970.00



#### **Eco slab**





#### Floor beams fitted





#### Timber bearer's and OSB fitted





#### **Ground floor costing**

Eco slab £890.00

Floor beams £500.00

Timber bearers £200.00

OSB boards £410.00

Labour £480.00

Total £2480.00



#### **Coventry City college students manufacturing frames**





#### Walls, mid floor and ceilings





#### Mid floor





#### **Mid floor**





## **Ceiling**





#### Cost for Wall, Ceiling and mid floor

Walls Ceiling	£3500.00
Ring Beam and Easy joist	£1560.00
Weather deck chipboard flooring	£512.00
Labour	£1550.00

Total £7122.00