



**LAND AT NURSERY FIELDS, FORMER COPSEYS NURSERY SITE  
DENVILLES, HAVANT**

**SUSTAINABILITY STATEMENT**

Havant Borough Council's adopted policy on energy and energy efficiency is set out in Policy CS14 of the adopted Havant Borough Core Strategy (2011), which relates to the efficient use of resources. This policy states that planning permission will be granted for residential development that on completion, unless proven to be financially or technically unviable, meets Level 3 of the Code for Sustainable Homes and BREEAM standard 'very good' on non-residential development over 500 sq.m.

The proposal has been designed to meet the requirements of Core Strategy Policy CS14 and in accordance with this policy, the residential development has been designed so that the scheme meets Code for Sustainable Homes Level 3, to be achieved through the efficient design of the building's fabric, incorporating features such as:

- Minimising energy usage through enhanced fabric to dwellings, with enhanced insulation, increased air tightness and efficient junction design
- 'A' rated appliances and energy efficient low-NOx boilers
- Minimising water usage through efficient fixtures and fittings
- Minimising waste both during construction and post-occupation
- Using responsibly sourced materials
- Reducing the need to travel by promoting walking and cycling, to minimise travel. Including provision of cycle parking for each dwelling.
- Good quality landscaping scheme using native planting species
- Use of SUDS (Sustainable Urban Drainage System) to improve the sustainability of the drainage system and appropriate attenuation to ensure that discharge rates do not exceed greenfield run-off rates

A copy of our Group specifications is attached.

The proposed community building has a gross external floor area of 257.8 sq.m and gross internal floor area of 239.9 sq.m, below the 500 sq.m floor area to trigger the requirements of Policy CS14.

# Group Standard Energy Solution Specifications: May 2013 – Version 2

## AD Part L1A 2010 & Code Level 3 ENE1 (Nov 2010 Technical Guide) - Houses

### Ground Floor

150mm thick suspended in situ concrete floor slab with 130mm Thermal Economics Platinum Board (k value 0.30) insulation below. 'U' value  $\approx 0.20 \text{ W/m}^2\text{k}$

### External Cavity Walls

300mm thick cavity wall comprising brick outer leaf, 100mm cavity with 50mm thick Aireflex Platinum board to inner leaf, and 100mm Aircrete 3.2N block inner leaf (TC 0.11 W/mK). Plasterboard and dab internal finish. 'U' value  $0.27 \text{ W/m}^2\text{k}$

### Party Walls

300mm thick cavity wall comprising 2 leaves of 100mm Aircrete 3.2N blockwork and 100mm cavity with RD party wall roll full fill and cavity sock edge sealing to external walls and roof line. 12.5mm plasterboard on dab finish to each side. 'U' value = Zero  $\text{W/m}^2\text{k}$

### Internal Garage to Dwelling Walls

210mm thick comprising 150mm thick Aircrete 2.9N block leaf (TC 0.11 W/mK). 50mm thermal laminate (TR 1.97  $\text{W/m}^2\text{k}$ ) plasterboard with 10mm dab inner finish.  
'U' value =  $0.30 \text{ W/m}^2\text{k}$

### Timber Floor over Garage

22mm chipboard, on 220/240mm deep I-beams @ 600mm max centres, void filled with mineral wool insulation (k-value 0.044) and 2 layers of 15mm plasterboard to ceiling below. 'U' value =  $0.20 \text{ W/m}^2\text{k}$

**Thermal Bridging** - Required to be calculated for each dwelling using sum of psi values.

**Air Tightness Value** - 5 or 6  $\text{m}^3/\text{m}^2/\text{hr}$  @ 50 Pa (Dependant on housetype)

**Ventilation** – Naturally ventilated. As standard.

### Roof Insulation to Loft Area

400mm Mineral Wool ('k' value 0.044). 'U' value of  $0.11 \text{ W/m}^2\text{k}$

### Roof Insulation to Sloping Areas of Roof (if required)

100mm thick PUR between rafters and underdrawn with 55mm PUR and plasterboard finish. 'U' value  $0.16 \text{ W/m}^2\text{k}$

### Windows

Eurocell PVCU windows or similar approved.

'U' value =  $1.41 \text{ W/m}^2\text{k}$ .

'G' factor = 0.71

### Rooflights (if required)

Keylight rooflights. 'U' value  $1.50 \text{ W/m}^2\text{k}$

### External Doors

Rear/Side - Firth Doors. Arts & Crafts 'U' value  $1.70 \text{ W/m}^2\text{k}$ , Classic 'U' value  $1.70 \text{ W/m}^2\text{k}$

Front - Firth Doors. Arts & Crafts. 'U' value  $0.89 \text{ W/m}^2\text{k}$ , Classic 'U' value  $1.0 \text{ W/m}^2\text{k}$

DWH Use values quoted on IG Doors 'National Specification Details – 2008'.

### Space Heating / Domestic Hot Water

Gas Boiler SEDBUK 'A' rated at 89.6% system

Gas boiler SEDBUK 'A' rated at 89.0% combi

Weather compensator to heating system

Boiler interlock, zone control and Delayed Start Thermostat

**Cylinder** - Range Tribune TI 150/250 litres

**Internal Lighting** - 100% low energy bulbs

**No Secondary Heating**

**External Lighting** - 100% low energy with PIR operation

**No Renewables**

### CO2 emissions

25% minimum improvement over 2006 Part L1A Building Regulations

### Compliance

AD Part L1A 2010 Building Regulation compliance.

CfSH Level 3 ENE1 (Nov 2010 Technical Guide)



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