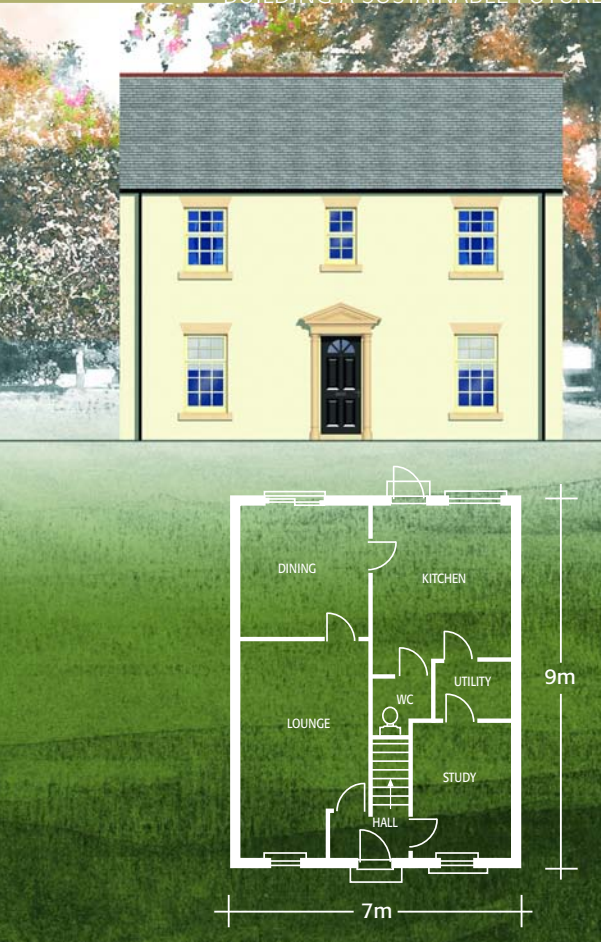


BUILDING A SUSTAINABLE FUTURE

AGLITE[®]

LIGHTWEIGHT AGGREGATE BLOCKS



Shown here is a SAP 2005 calculation for a typical **3 bedroom detached house** which demonstrates compliance with the new Part L requirements.

By incorporating **AGLITE** and **STRANLITE** blocks into the calculations, compliance is straightforward and Plasmor concrete blocks also provide extra benefits - excellent sound insulation, fire resistance, durability and a cost effective choice for all types of construction.

FACTORS EMPLOYED IN ACHIEVING TYPICAL COMPLIANCE

- **2 Doors** UPVC or Wood, semi glazed to achieve **U = 2.40**
 - **Warm Living Area** = **24.5m²**
 - **Windows** UPVC or Wood, Low E Glass /16mm air gap to achieve **U = 1.80**
 - **Total Opening** = **16.90%** of floor area
 - **Glazing** = **21.30m²**
 - **6 x Low Energy Lights** minimum required
 - **Air Pressure** set to **10Pa/m²**
- 2 x 1.05m² x 1.77m²
 5 x 1.05m² x 1.35m²
 3 x 0.9m² x 0.63m²
 2 x 1.77m² x 2.1m²
 1 x 1.2m² x 1.2m²

WALLS

19mm Render
 100mm **Plasmor Aglite Block**
 100mm Standard Insulation **k = 0.037**
 100mm **Plasmor Aglite Block**
 12.5mm Plasterboard on dabs

FLOOR

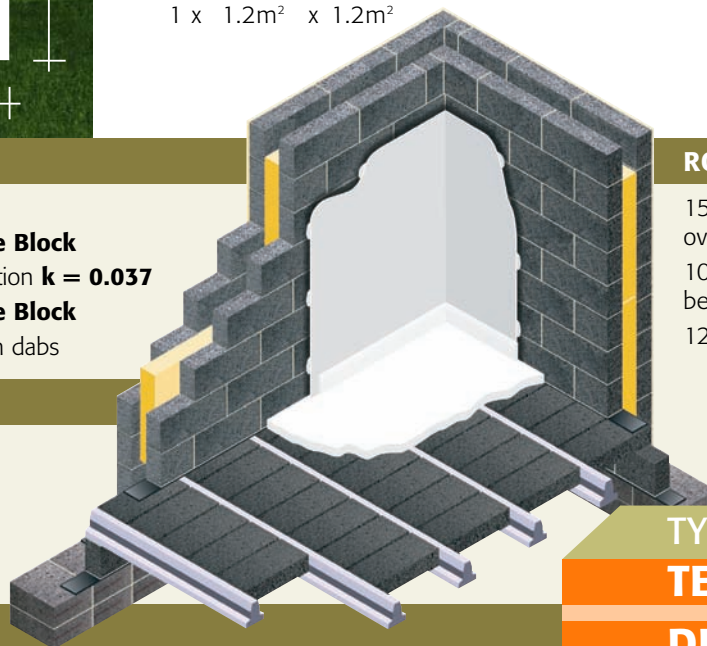
100mm **Stranlite JB1 Flooring Block**
 75mm Insulated Board
k = 0.022
 65mm Screed

HEATING

90.1% Efficient Gas Combi Boiler
Controls Thermostatic Radiator Valves - Room Stat and Programmer
Secondary Heating
 61% Efficient Modern Gas Fire with Flue

ROOF

150mm Standard Insulation over **k = 0.043**
 100mm Standard Insulation between **k = 0.043**
 12.5mm Plasterboard



TYPICAL RESULT

TER 22.04

DER 22.02

Where DER < TER and General Requirements Compliant

= PASS

FOR 25% IMPROVEMENT see over

AGLITE®

LIGHTWEIGHT AGGREGATE BLOCKS

OPTIONS TO IMPROVE YOUR PASS BY 25% AND REDUCE YOUR CARBON FOOTPRINT

- Specify 5.5m² of Solar Panels with a 250 litre cylinder
- Change Gas Fire to a Wood Burning Stove
- Use Full Zone Control for Heating
- Use High Performance Cavity Insulation **k = 0.032**
- High Performance Loft Insulation and increase to 300mm **k = 0.040**
- Increase Floor Insulation to 100mm
- Change One External Door to be a Glazed Door
- Use Argon Filled Glazing in the Windows

The list shows examples of how 'improvements' can be easily made to a dwelling. This data sheet cannot be used to show compliance with SAP and must be calculated on an independent basis by an authorised assessor.

TYPICAL RESULT

TER = 22.04

DER = 16.52

Where DER < TER and General Requirements Compliant

= PASS

25% IMPROVEMENT

This level of improvement will achieve **Code For Sustainable Homes Level 3** compliance



SAP ENERGY RATING SERVICE

Using government approved computer software, our fully trained technical support staff can work with you to produce SAP rating certificates for your projects - contact our technical/sales offices to discuss our service and charges.