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ATSPACE

DELIVERING BEYOND COMPLIANCE

**9 Plot
Development**

SAP Comprehensive Case Study

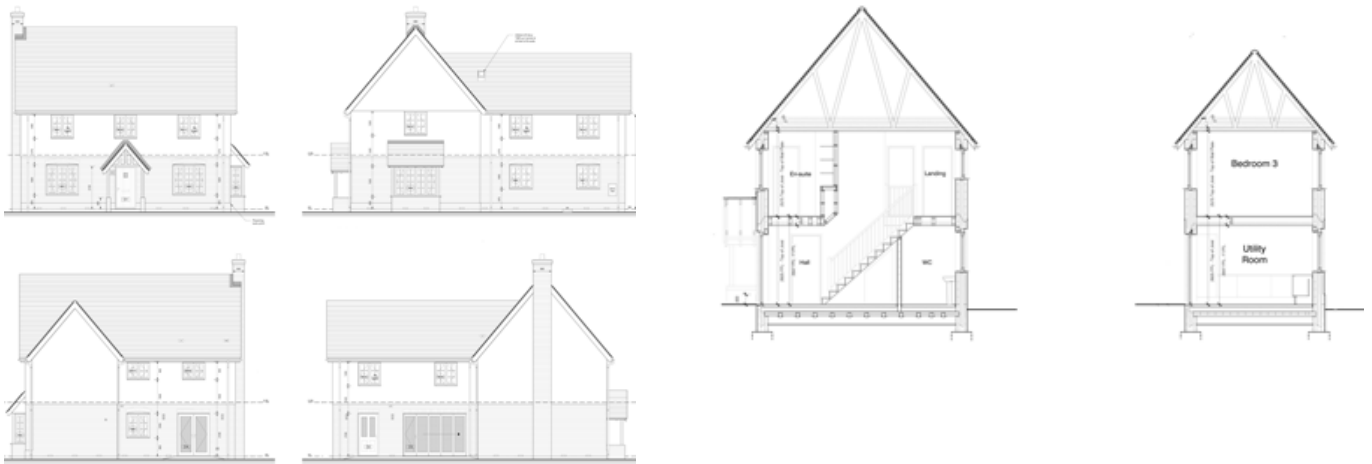


**Call us today on 0800 917 8922
to speak with an adviser or visit
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Dwelling Details

9x Detached Dwellings

- Detached/Semi- Detached Dwellings
- 2, 3 & 4 Bedroom Properties
- Cavity Construction
- Brick Façade
- Gas Heating
- Aim - To achieve a cost saving whilst maintaining the same EPC rating



Initial SAP Result

Client Specification

- EPC Rating 83 B
 - CO2 Emissions – 2,387 kg/year
 - -1.33% Under Compliance
 - Dwelling Emissions Rate (DER) – 16.34 kgCO₂/m²/year
 - Dwelling Fabric Energy Efficiency (DFEE) – 54.6 kWh/m²/year
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Our Cost Saving Changes

What We Changed

- Cheaper Floor Insulation
 - Alternative Wall Insulation
 - Low Cost Renewable Technology
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Proposed SAP Result

With Cost Saving Changes

- EPC Rating 83 B
 - CO2 Emissions – 2,409 kg/year
 - -0.48% Under Compliance
 - Dwelling Emissions Rate (DER) – 16.48 kg/CO₂/m²/year
 - Dwelling Fabric Energy Efficiency (DFEE) – 55.3 kWh/m²/year
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Comparison of Results

Initial

EPC Rating 83 B

CO2 Emissions – 2,387 kg/year

-1.83% Under Compliance

Dwelling Emissions Rate (DER) – 16.34 kgCO2/m2/year

Dwelling Fabric Energy Efficiency (DFEE) – 54.6 kWh/m2/year

Proposed

EPC Rating 83 B

CO2 Emissions – 2,409 kg/year

-0.48% Under Compliance

Dwelling Emissions Rate (DER) -16.48 kg/CO2/m2/year

Dwelling Fabric Energy Efficiency (DFEE) – 55.3 kWh/m2/year

Cost Comparison

Initial

Floor Insulation - £14,500

Wall Insulation - £47,600

Renewable Technology - £0

Total = £62,100

Proposed

Floor Insulation - £10,900

Wall Insulation - £9,500

Renewable Technology - £2500

Total = £22,900

What We Achieved

Savings Made

£4, 355 per plot

£39, 200 across the development