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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
atspaceltd.co.uk

What Does SAP Comprehensive do?

We review both the existing method and make-up of your project to save you money

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

- Cost Effective 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