ATSPACE

DELIVERING BEYOND COMPLIANCE

**5 Plot
Development**
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SAP
Comprehensive
Case Study
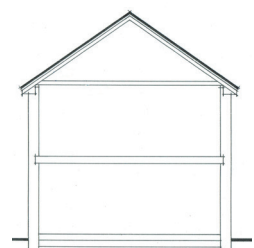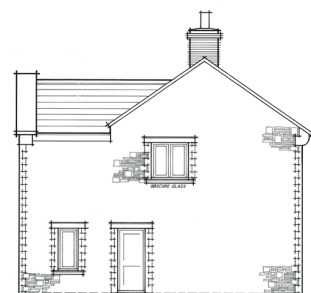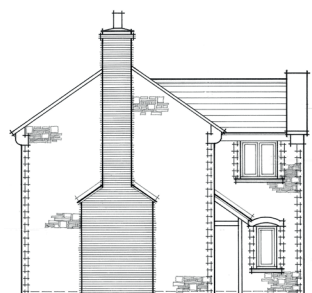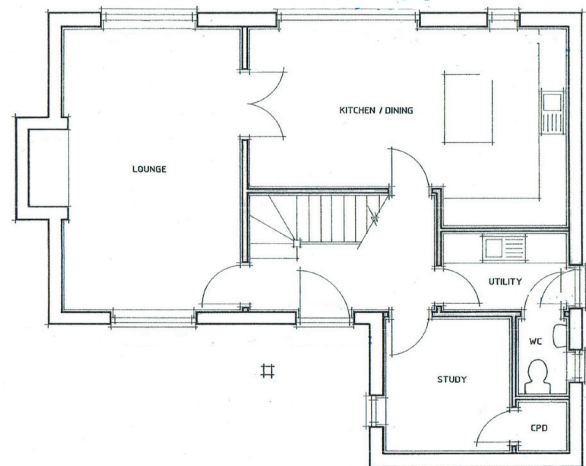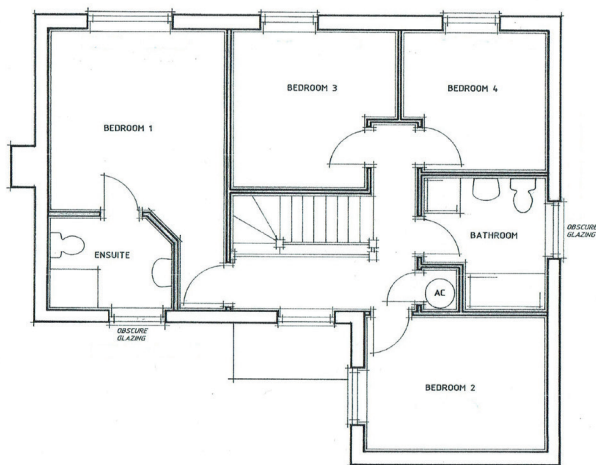
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to speak with an adviser or visit
atspaceltd.co.uk**

Dwelling Details

5x Detached Dwellings

— 4 bedroom properties
— Brick and block construction
— Gas heating
— Aim: to achieve compliance for a cost saving

Initial SAP Result
Client Specification

—

— EPC Rating 84 B

— CO_2 Emissions – 2,205 kg/year

— 0.13% Under Compliance

— Dwelling Emissions Rate (DER) – 15.61 $kgCO_2/m^2/year$

— Dwelling Fabric Energy Efficiency (DFEE) – 52.3 $kWh/m^2/year$

Our Cost Saving Changes
What We Changed

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— Cheaper equivalent floor insulation

— Replace wall insulation with cheaper alternative

— Specified cheaper boiler – yet better efficiency within SAP

— Upgraded lintels – extracost but allows to replace wall insulation

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Proposed SAP Result
With Cost Saving Changes

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— EPC Rating 84 B

— CO_2 Emissions – 2,186 kg/year

— -0.90% Under Compliance

— Dwelling Emissions Rate (DER) -15.49 $kg/CO_2/m2/year$

— Dwelling Fabric Energy Efficiency (DFEE) – 53.6 $kWh/m^2/year$

Comparision of Results

Initial

EPC Rating 84 B

CO_2 Emissions – 2,205 kg/year

-0.13% Under Compliance

Dwelling Emissions Rate (DER) – 15.61 $kgCO_2/m^2$/year

Dwelling Fabric Energy Efficiency (DFEE) – 52.3 kWh/m^2/year

Proposed

EPC Rating 84 B

CO_2 Emissions – 2,186 kg/year

-0.90% Under Compliance

Dwelling Emissions Rate (DER) -15.49 $kg/CO_2/m^2$/year

Dwelling Fabric Energy Efficiency (DFEE) – 53.6 kWh/m^2/year

Cost Comparison

Initial

Floor – £1,900

Walls – £3,010

Roof – £540

Boiler – £1,100

TOTAL £6,550

Proposed

Floor – £1,740

Walls – £1,730

Roof – £540

Boiler – £800

Lintel Upgrade Cost – £200

TOTAL £5,010

What We Achieved
Savings Made

£1,540 per plot

£7,700 across the development