

MEASURES INCORPORATED TO ADDRESS CLIMATE
CHANGE
FOR
2 NEW BUILD 4 BED DETACHED HOUSES
ON LAND
ADJACENT TO 60 GREEN STREET, ROYSTON

The latest building regs, which the plans will be more than compliant with, were brought out to achieve much better efficiency in the fabric of a build, rather than requiring more technology to achieve that efficiency.

The build will use locally sourced materials and products.

The insulation specified is above the building regs requirements.

The build will be fully compliant with accredited details construction.

Details for the prevention of air leakage will be specified.

The build will be specified to be tested for air leakage, thermal efficiency etc at the plans stage and again after construction to ensure actual efficiency and compliance. These tests are carried out by an accredited energy assessor.

Efficient water usage will be specified on the plans including low flush wc's.

Efficient heating with thermostatic radiator valves, with temperature controlled zones, heating controls to prevent the boiler coming on when neither heating or hot water is required, all hot water storage vessels are fully insulated, highly efficient boiler, will all be specified on the plans.

Easy and rapid efficient ventilation will be specified on the plans.

House design to allow for natural daylight and thermal comfort.

Special lintels to avoid cold bridging will be specified on the plans.

Water butts will be specified on the plans for rain water collection and re use.

Grey water collection, storage and use will be specified on the plans.

Walls are brick and block 100mm cavity construction with 90 thk insulation Celotex Thermoclass Cavity Wall 21 with a 10mm residual gap.

Ground floor insulation is 150 thk Celotex GA4000.

Roof insulation is min 300 thk Rockwool Thermal Insulation Loft Roll.

First floor insulation is 100 thk mineral wool.

External double glazing has 'U' value of 1.4W/m²k or less using low 'E' 0.05 soft coat glass with argon filled 20mm cavity.

All internal artificial lighting will be specified as 100% energy efficient and to only accept lamps having a luminous efficacy of greater than 40 lumens per circuit - watt.

All external lighting will be specified as max 150w and daylight sensors or energy efficient lighting to be used.

EV charging infrastructure will be provided at each house