

Hazel Hall Farm – Proposed Detached Garage

933-08

Carbon and Energy Statement

Methods to minimise energy demand.

- The building will be insulated to better than current building regs standards. As a way of future proofing, the target U-Values for residential buildings will be improved on this development. ie roof U-Value is 0.15, but 0.13 will be specified, likewise for floor and roof, minimum U-Value is 0.18 but 0.16 will be specified.
- For heating, an air-source heat pump can be used to heat the internal space of the garage, as the insulation/ target u-value is better than building regs minimal standards, then the air source heat pump will not need much usage to keep the internal space to a constant temperature.
- The air source heat pump will also heat any hot water taps within the building.
- All light fittings will be energy saving and where possible will be on timers or motion sensors to minimise electricity consumption.
- This building will not only comply with Part L of the Building Regulations, but will perform better than current standards, thus minimising energy consumption.