



Sustainable Design and Construction Statement

This statement has been prepared to accompany a householder application for a garage extension at Sourber Dairy, Bank Newton.

Its purpose is to provide a non-technical explanation of climate change mitigation measures that have been incorporated into the design to minimise resource and energy consumption compared to the minimum building regulation requirement.

Development ratings

The garage extension has been designed to incorporate insulation measures to exceed the U values required by Approved Document Part L of the Building Regulations:-

- (a) New wall construction to be insulated; and
- (b) New roof structure will be insulated; and
- (c) Glazing for windows and the doors; and
- (d) Lighting (internal) will incorporate high efficiency light fittings utilising LED lamps.

In addition, the extension will have natural ventilation in accordance with Approved Document Part F of the Building Regulations e.g. trickle ventilators and opening glazing.

In summary, the extension will be constructed to meet, and exceed where possible, the current Building Regulations.

Materials

The garage extension will be constructed of reclaimed natural stone sourced from the local area. The use of slate to the roof is considered necessary to ensure that the development matches the existing house. That material will have to be transported from outside of the local area, but it is a natural product and there will be no significant adverse environmental impacts as a result of a manufacturing process. uPVC windows are proposed, their advantages being excellent thermal efficiency and a long maintenance free lifespan.