



### 4 BEDROOM PRIVATE HOME

This house was commissioned by a young family wanting to have a home that is very efficient to run and costing as little as possible on an annual ongoing basis. In addition planning restrictions limited the height of the property which meant that bedrooms had to be located in the roof. In order to ensure low running cost the following items were included in the dwelling.

1. The heating and hot water are provided by a ground source heat pump. The pipes for which were laid in the field to the rear of the property.
2. The insulation in the walls of the building was significantly up rated over that required for building regulations. A lot of the insulation in the building was a wool based product increasing the overall sustainability of the project.
3. Under floor heating installed through out on both floors. This gives constant and controllable heat 24 hours per day.

The whole project was carried out on a design and build basis by Roland Hill with all the materials and systems being used were specified by Roland Hill.