

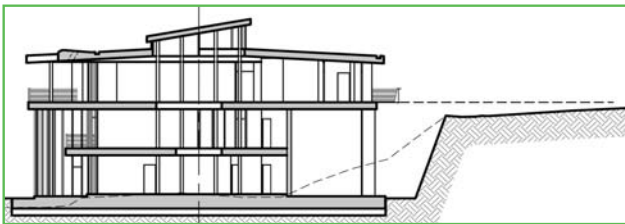
home - revolution

Dumble Background



The Dumble was originally conceived by Robin Hamilton and featuring subsequent input from CadENZA VM and Fisher German to help develop it through concept stages to planning consent.

After being granted planning consent on 22nd January 2007, Robin and Rosy Hamilton are now building the house, which is located in a small quarry, set in the side of a valley within their farmland at Ashton Close, Snelston, Derbyshire.



Robin and Rosy's mission with this pioneering project is to create a unique dwelling that represents a real and responsible step towards meeting some of today's environmental challenges, such as dwindling energy resources and climate change.

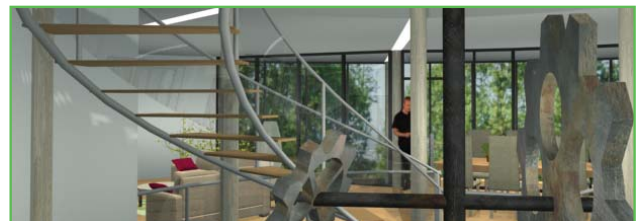
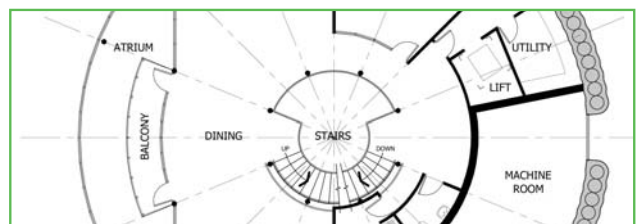
Robin has developed the project over several years from initial concept to workable design, involving professional advice from several sources and generating a wide amount of interest and excitement. The same concepts, systems and techniques featured in the Dumble can be applied to smaller and larger buildings, domestic or commercial.

The word 'house' is an inadequate description for the design and scale of the building, which interacts with its surroundings, is energy self-sufficient and is in effect part machine. For example, its unique design enables the structure to slowly revolve to follow or avoid the sun, maximising or reducing passive solar gain according to requirements and ambient conditions. It generates or captures all its own power, and exports surplus power to the National Grid.

The house also features a new concept and design for small-scale wind power generation, devised by Robin Hamilton. Incorporated into the roof and upper wall structures, the turbine system is designed to maximise energy capture at relatively low wind speeds, which occur the majority of the time.

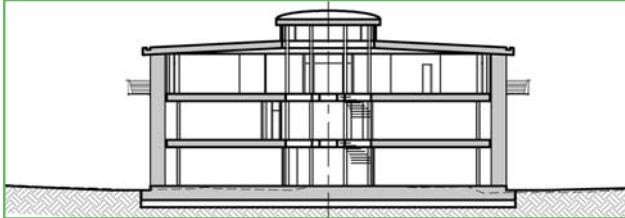
In one of his previous companies Robin was closely involved with waste and recycling machinery and the general handling and processing of materials. As the disposal of some items such as heavy-duty plastic pipes and tyres presented major problems, the Dumble now makes extensive use of them, utilizing their characteristics in a positive way.

Particular consideration has been given to the impact of the house on its surroundings and the design has been carefully developed to work in harmony with the surrounding terrain. The site and contours of the quarry and surrounding pastureland played a key role in the





Dumble Background Continued...



development of the original idea through to its current design, where it is largely hidden within the quarry depression and by adjacent trees.

The Dumble originally started as an earth-sheltered dwelling, built into the side of the quarry, with only the front elevation exposed. In order to make better use of renewable energy resources however, the design was

subsequently pulled out of the side of the quarry and developed into a round structure that rotates in response to the sun's movements.

Robin Hamilton is project manager for the build, providing much of the labour and fabricating or assembling as much as possible on site and within his workshops at Ashton Close. Robin himself has a very strong personal desire to build this house, logically incorporating and demonstrating his experience gained to date. His team shares his excitement, passion and determination to make the Dumble a success. He does not underestimate the task and challenge however - it is likely to take at least 2 years to bring the building to a 'livable' standard and a further 2 years to optimise the various systems and their integration.



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