



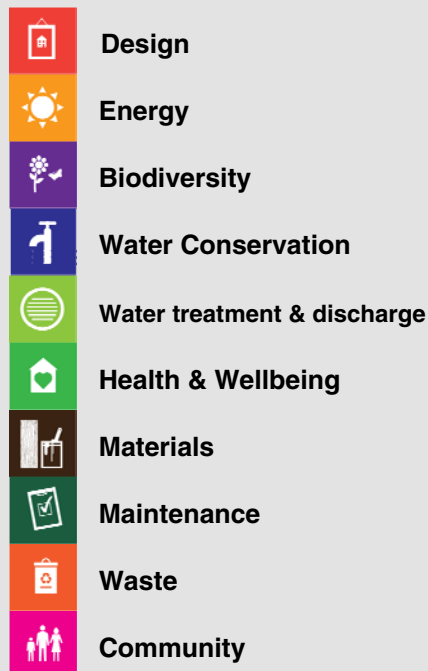
Scale of development

Small

Type of development

Offices

Sustainability features



Features

- ❖ Post and beam timber frame
- ❖ Semi-intensive green roof
- ❖ Extensive use of natural, sustainable materials.

Introduction

This office building for the conservation charity BTCV was built in 2008 by Pioneer Environmental Building Company for Kerrier Council. BTCV provides volunteering and training opportunities and promotes conservation and environmental improvement.

Materials

The building is based around a Douglas Fir post and beam structure. Natural, local materials are utilised where possible. The insulation is recycled cellulose fibre with 175mm in the floor and roof and 150mm in external walls.

The floor is finished with Marmoleum and laminated bamboo, and the exterior is clad with larch boards. The building features a turf roof which provides additional habitat and helps it blend into the landscape.

Design and Construction

The post and beam structure reduces the amount of concrete required for foundations, reducing cost and environmental impact. The building was pre-fabricated and assembled on site; this technique reduces waste and saves time.

A high level of insulation and air-tightness helps the building to retain heat or stay cool. The wall construction allows the building to breathe and maintain comfortable levels of humidity.

Saving Energy and Water

An air source heat pump is used to provide space heating, low flush toilets are fitted, and low energy lighting is used to supplement natural light from skylights.