

The Scarlet, Mawgan Porth



Client: Scarlet Hotel Ltd.
Architect: Harrison Sutton Partnership, Totnes
Contractor: BE Bauwerk GmbH
Mechanical & electrical design: Hoare Lea

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View of the Scarlet from across the natural, reed filtered swimming pond

Relevant links:
www.scarlethotel.co.uk
www.bedruthan.com

Building Summary

A beautiful, ground breaking 37 bedroom hotel built to the highest eco-standards, The Scarlet is set into the cliff edge at Mawgan Porth in North Cornwall, 15 minutes from Padstow and Newquay, and 5 minutes from Watergate Bay. Opened in September 2009, this innovative hotel is influenced by the natural environment and the topographical location.

The co-owners of the Scarlet set out to build this new hotel because they wanted to demonstrate that sumptuous need not mean unsustainable, well-being doesn't have to be woolly, and that hospitality shouldn't be formulaic.

This contemporary hotel reflects and embraces its unique location, blurring the boundaries between indoors and out. With a number of eco credentials (including; a natural reed bed swimming pool, solar panels, a biomass boiler, grey and rainwater harvesting, low energy appliances and fittings, green sea thrift roofs, sympathetic and natural landscaping, a state of the art computerised monitoring system), it is clear that efforts have been made to benefit, blend with and enhance the surrounding environment. The co-owners are leading by example, showing that great design can go hand in hand with sustainability.

the Scarlet



Climate Change Adaptation measures

Ventilation – 7% is from natural ventilation, 85% is from heat recovery from a ventilation plant

Natural pool – The natural swimming pool uses rainwater and requires no chlorination as it is cleaned via a system of natural vegetation and stones

Grey and rainwater harvesting system – grey water (recycled from the bedroom sinks and baths) is used to flush toilets, rainwater is used for landscaping and to top up the natural pool

Sea Thrift Roofing - Sea Thrift, a plant which occurs naturally in North Cornwall, is creating a durable roof covering which reduces the heating and cooling loads of the hotel as well as supporting biodiversity in insects and butterflies.

Landscaping – the development integrates green landscaping which will have cooling effects and reduce run-off, decreasing flood-risk. A soakaway is also included, which allows rainwater and waste water to drain directly into the ground

Insulation – Air Tightness is an integral part of achieving thermal energy efficiency in a building such as the Scarlet; by building air tight both the amount of cold air leaking in and warm air leaking out is reduced, this decreases the amount of input required from the biomass boiler and solar panels. The hotel's air tightness test produced a score of just under 3 – the minimum score for building regulations is 10, so an air tightness 70% better than the majority of new buildings has been achieved.

Additional Features

- The whole hotel has been carefully positioned, not only to ensure that wherever you are within the building you have a spectacular view but also, to maximise the solar benefits (light and warmth) throughout.
- The hotel was constructed using a timber frame (all timber products are FSE certified)
- The little cement that was used for the construction of the Scarlet is all made from waste material from china clay production.
- The Scarlet's biomass boiler is fired on wood chips (waste products and FSC wood from a local company) and is used to produce hot water for bathrooms, kitchens and for heating the hotel.
- There was a waste recycling target during construction, and there is now a reduce, return, reuse, recycle policy in place reducing the amount of waste sent to landfill

Benefits of adapting

Improved business reputation and good marketing for custom.

Bedruthan Steps Hotel (the Scarlet's sister hotel) has been awarded a number of sustainability awards so building a new hotel in accordance with sustainable principles continues to enhance the business' 'cherish the world' ethos.

Overcoming barriers to implementation

There were few barriers to implementing the climate change adaptation and sustainability features because the client was committed to these principles and so were willing to invest time and money in integrating the necessary systems and technologies into the plans.