

## SUSTAINABLE HOTEL DESIGN

It is with the help of Ian Springford Architects and RSP Consulting engineers that we were able to install the most energy efficient products on the market, use paints which don't contain lead, maximise the use of natural light and ventilation and investigate re-wiring to allow the use of master switches or for ease of shutting down components.

A dedicated architect oversees Sustainable Hotel Design, taking advantage of environmental opportunities in our developments, ensuring:

- The design of our Hotels is eco-friendly. Our new build hotel in Dundee took advantage of the latest energy saving materials and techniques. This included extensive thermographic imaging to ensure the building was airtight and to identify thermal spots and also incorporate the most up-to-date ventilation system available at the time
- Hotels are located in city centres rather than using greenfield space, minimising wastage of energy and resources
- Apex Hotels are surrounded by good transport links for road, air, rail, underground rail and boat
- Keycard systems control lighting, heating and air coolers when room not in use
- Building management systems are in place to control temperatures throughout the building
- Existing lifts have been replaced with energy efficient lifts
- Energy saving lighting, dimmers and motion detectors are in place
- Energy efficient roof plant rooms
- High specification glazing introduced
- Flow restrictors in place for showers and taps
- Ving key card systems in place to control lighting, heating and air cooling
- Master switches in place to control lighting
- Energy saving lighting, dimmers and motion detectors in place
- LED lighting in place
- Energy efficient lifts
- Energy efficient boilers
- Building Management Systems in place to control temperatures throughout the building
- Ozone pools use ozone to disinfect the water instead of chlorine.

## SUSTAINABLE BATHROOM REFURBISHMENT

Apex Hotels carried out a refurbishment of their bathrooms at the Apex International and Apex European Hotels (both in Edinburgh), where there was much focus ensure we were re-using what we could, donating to local charities and businesses and installing the latest technology to reduce energy and water consumption.

- Showers were replaced with new thermostatic valves
- Showers fitted with 'flow regulators' to control water usage
- Baths were removed from 50% of the bathrooms at the Apex European Hotel and changed to shower only
- Maintenance/Longevity Bathrooms/shower rooms completely tiled with large porcelain tiles
- Existing bathroom pipe-work thermal insulation upgraded

Shower flow regulators result in less hot water being heated and drawn therefore saving in gas consumption.