

# GLENEAGLES HOTEL DESTINATION SPA

## PROJECT DETAILS

<b>Client:</b>	Gleneagles Hotel
<b>Location:</b>	Gleneagles, Scotland, UK
<b>Completion Date:</b>	December 2007
<b>Contract Scope:</b>	Design, Supply, Installation
<b>Applications:</b>	Underfloor heating
<b>Technology:</b>	nVent RAYCHEM T2QuickNet 90 and 160 heating mats, T2Blue cable with R-TC timer controllers



## KEY CHALLENGES

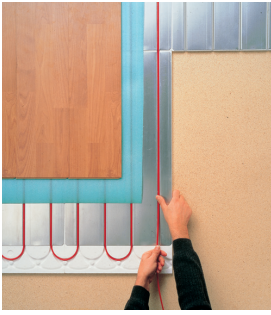
For this new build £8m project at the world-famous Gleneagles Hotel the consultants were seeking an underfloor heating system to provide comfort to complement the tranquil space and relaxed atmosphere in which to receive therapeutic treatments and yet would have a low impact on capital costs. There were a number of areas to be heated: under the anti-slip, porcelain ceramic tiling around the vitality pool, across the communal area, the changing rooms and in 12 of the treatment rooms. Time was a factor as it was a quick turnaround project within 6 months from design to final commissioning.

## SOLUTION

Working through its distribution partner, Smith Electrical of Glasgow, nVent was able to provide cost-effective, efficient solutions for each of the Spa's key areas.

For the areas surrounding the vitality pool, communal area and treatment rooms, the solution was ultra-thin RAYCHEM T2QuickNet power mats, which were laid in the tile adhesive to offer the maximum heating efficiency with virtually no impact on floor height. Mats with power outputs of both 90 W/m<sup>2</sup> and 160 W/m<sup>2</sup> were specified, to suit the specific requirements of the area to be heated.

For the changing rooms, a higher output was specified, so RAYCHEM T2Blue constant-wattage heating cables were installed to match precisely the requirements of this particular zone and these were laid within a levelling compound. Control was provided by RAYCHEM R-TC electronic thermostats.



## PRODUCTS

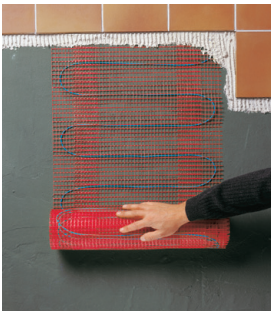
RAYCHEM T2QuickNet heating mats provide warm comfort to both tile and wood floors. The heating cable is pre-terminated and pre-spaced in the self-adhesive mesh to simplify installation. They can be installed underneath ceramic tile, natural stone, laminate and engineered wood surfaces.

RAYCHEM T2Blue is a floor heating cable with constant power output. It is available in two power outputs: T2Blue 10W/m is used for standard floor construction, and T2Blue 20W/m is the preferred solutions in areas where higher power is required.

The RAYCHEM R-TC electronic thermostat is an easy-to-program unit that features multiple temperature control modes and an adaptive functionality that automatically switches the system on to ensure a comfortable floor temperature when it's needed.

## BENEFITS

- Fast, simple installation
- Low profile systems with no effect on floor height
- Cost-effective, reliable solutions.



The Gleneagles Hotel is a world-famous AA five star resort in Perthshire, Scotland and now boasts one of the most luxurious destination Spas in the world. Consulting engineers for the project were RSP; the M&E contractor was HF Electrical Ltd. and the RAYCHEM products were supplied by nVent distribution partner Smith Electrical.

Cost-effective underfloor heating systems that complement the tranquil space and relaxed atmosphere of one of the world's most luxurious destination spas.

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