

KEMPINSKI HOTEL DUKE'S PALACE

PROJECT DETAILS

Client:	Kempinski Hotels and Resorts
Location:	Bruges, Belgium
Completion Date:	Early 2007
Contract Scope:	Design, Supply, Installation
Applications:	Underfloor heating
Technology:	nVent RAYCHEM T2QuickNet – 160 heating mats



KEY CHALLENGES

The transformation of an historic castle and neighbouring convent in Bruges medieval city centre into a luxury 5-star hotel called for heating solutions that would provide 'the ultimate in quality and comfort'. For the heating of the new hotel's 95 en-suite bathrooms, project engineers Tractebel were seeking not only a responsive, reliable system but also the support of a manufacturer who could supply detailed designs and delivery to a tight schedule.

SOLUTION

The solution was provided by nVent through a combination of its RAYCHEM T2QuickNet-160 electric heating mats and a design service that enabled it to provide Tractebel's subsidiary Technum with detailed installation designs and a bill of materials to supply floor heating to every bathroom. Complete designs for all 95 bathrooms were prepared within 4 days of receiving the project drawings using nVent' proprietary RAYCHEM Floor Heating Planner software. These included 2D and 3D graphics to assist the installation team in visualising the layouts before work commenced.

The ultra-thin, fast-heating T2Quicknet-160 mats were installed beneath the bathrooms' marble tiled floors with minimal impact on floor heights to provide comfortable warm floors at a constant 29°C. Control was provided by complementary RAYCHEM R-TC floor sensing thermostats which integrate with the hotel's building management system. Belgium based electrical wholesaler Cebeo provided the supply channel to site, with logistical support from nVent and all materials were available to the installers within 48 hours.



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. Supplied pre-assembled and ready to install, they are supplied as complete kits containing all the components needed to complete the job. They can be installed underneath ceramic tile, natural stone, laminate and engineered wood surfaces.

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

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



The Kempinski Hotel Duke's Palace is Bruges' first ever 5-star hotel. The former home of the Dukes of Burgundy, it sits within the city's medieval centre, which is a recognised UNESCO heritage site. Architects for the project were DDS & Partners with interior design by Interart Etudes, Paris.

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