

## CONNECT AND PROTECT

### Amphill Apartments – UK



#### PROJECT DETAILS:



**Contractor:**  
jaf Contracts Ltd



**Distributor/Installer:**  
Gaia Climate Solutions



**Location:**  
Amphill, Bedfordshire, United Kingdom



**Application:**  
Self-regulating electric floor heating



**Type of system:**  
T2Red and Reflecta with SENZ WIFI thermostats



**Scope of work:**  
Floating installation - no screed or levelling compound



**Contract scope:**  
4 km T2Red, 345m2 Reflecta,  
30 SENZ WIFI thermostats



**Completion date:**  
July 2021

## KEY CHALLENGES

The apartment block has been developed to provide rental properties and needed to have an energy efficient, low maintenance heating system which was also safe for the temperature sensitive luxury vinyl flooring specified throughout.

The client also wanted a thin solution with a dry install method, so there was no need for screed or self-levelling compound due to the system being installed on multiple floor levels.

## SOLUTION



The nVent RAYCHEM T2Red cabling with self-regulating technology was chosen as the best system for the project, providing peace of mind that no hot spots would occur and providing great flexibility as it can be cut to length on site.

The nVent RAYCHEM T2Red cable was installed within the 13 mm pre-grooved nVent RAYCHEM Reflecta insulation boards because it offered the fastest heat up, energy efficiency and a dry install with no need for levelling compound or screed.

The nVent RAYCHEM SENZ WIFI thermostats were specified for the benefit of central control through the SENZ WIFI app and that the thermostats can be controlled by voice command through Google Assistant and Amazon Alexa or others.

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## BENEFITS

- Exceptionally energy efficient and self-regulating: automatically adjusts heat output, more heat near windows, less heat under furnishings
- The installed Reflecta insulation boards give extra comfort: heat spreads perfectly over the entire room and provides a fast heat up
- Simple, fast installation: cut-to-length cable, no cold leads, the Reflecta insulation board grooves serve as a cable fixing tool and guarantee perfect cable distance of 100, 200 or 300 mm spacing, suitable for all sub-floors and floor coverings, meter markings, user-friendly connections kits
- Safe and efficient operation: fast heat up, uniform temperatures across the room, flexible power output from 35-100W/m<sup>2</sup>-closer loops for higher output and wider loops for lower output, no overheating
- Reliable: 12 to 20 year total care warranty available, no maintenance required

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