

SPECIFICATION GUIDELINE ELECTRICAL UNDERFLOOR HEATING MAT



- An electrical underfloor heating system shall be installed to provide a comfortable (18-27°C) floor temperature.
- The underfloor heating cables shall be the kitted, ready to install mat, nVent RAYCHEM T2Quicknet-90, as manufactured by nVent.
- The heating cable shall have a two wire constant wattage cable construction (to ensure negligible electro-magnetic fields), a Teflon inner and outer jacket, electrical braid, a flat cold lead cable (to enable a low profile installation). The heating cable shall be pre-terminated by the manufacturer, fixed within the mat and held in place by the matting itself, not by fixing tape, to avoid air gaps and associated potential hot spots. The overall thickness shall be no more than 3 mm, including the mat base.
- The heating mat shall be PVC free and be self adhesive, for ease of installation.
- The manufacturer shall provide a 12 year Total Care Warranty, for systems installed, tested, commissioned and registered, strictly according to their requirements, by a qualified electrician and this shall be extendable to 20 years if performed by Certified Pro installers.

All under-floor heating mats should be capable of power output of 90 Watts/m² and a maximum heating area as per the following:

| Circuit Breaker (Type C) | Maximum heating cable length per electrical circuit (metres) |
|--------------------------|--|
| 10 Amp | 24 m ² |
| 13 Amp | 31 m ² |

- All underfloor heating circuits shall be protected by an MCB (to BS EN 60898, type C/D) and RCD (30 mA sensitivity, tripping within 100 ms)

All underfloor heating circuits shall be controlled and monitored by programmable digital floor temperature sensing thermostats, named RAYCHEM NRG-Temp, with integrated timer, economy setback and boost functions.

- All connections between the electrical supply, control panel, thermostat (s) and underfloor heating circuits shall be installed by an approved electrical contractor.

United Kingdom

Tel 0800 969 013
Fax 0800 968 624
salesthermalUK@nvent.com

Ireland

Tel 1800 654 241
Fax 1800 654 240
salesIE@nvent.com

South East Asia

Tel +65 67685800
Fax +65 67322263

Australia

Tel +61 2 97920250
Fax +61 2 97745931

India - Noida

Tel +91 120 464 9500
Fax +91 120 464 9548
NTMinfome@nvent.com

India - Mumbai

Tel +91 22 6775 8800/01
Fax +91 22 2556 1491
NTMinfome@nvent.com

UAE

Tel +971 4 378 1700
Fax +971 4 378 1777
NTMinfome@nvent.com



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