

SPECIFICATION GUIDELINE ELECTRICAL UNDERFLOOR HEATING MAT



HEATING MAT

- An electrical underfloor heating system shall be installed to provide a comfortable (18-27°C) floor temperature.
- The system shall be the kitted, ready to install, underfloor heating mat, nVent RAYCHEM T2Quicknet-160, as manufactured by nVent.
- The heating cable shall have a two wire constant wattage cable construction, to ensure negligible electro-magnetic field generation, a Teflon inner and outer jacket, a braid, to offer electrical circuit protection, a flat cold lead cable, to enable a lower profile installation. The heating cable shall be preterminated 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 160 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	28 metres (14 m ²)
13 Amp	36 metres (18 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.

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