

# Raychem SPECIFICATION GUIDELINE

## T2QUICKNET-90 ELECTRICAL UNDERFLOOR HEATING



### 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, Raychem Quicknet-90, as manufactured by Pentair Thermal Management.
- 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/m<sup>2</sup> 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 <sup>2</sup>
13 Amp	31 m <sup>2</sup>

- 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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