

Specification guideline electrical underfloor heating



- An electrical underfloor heating system shall be installed to provide a comfortable (18-27°C) floor temperature under wooden or tiled floors.
 - All underfloor heating cables shall be the energy efficient, self-regulating type, Raychem T2Red, as manufactured by Chemelex, delivering 10 W/m @ 25°C.
 - The underfloor heating cables shall be incorporated into a pre-grooved, thermally insulated, energy efficient, aluminium covered, heat reflecting system, T2Reflecta, as manufactured by Chemelex.
 - The pre-grooved aluminium plates shall have thickness less than 13 mm, 100% aluminium coverage, insulation density of 50 kg/m², U-value of 2.33 W/m² °C, long term pressure capability of 14000 kg/m² and allow heating cable spacing of 100/200/300 mm for varied output per square metre. Maximum power output should be 100 Watts/m².
 - The heating cable shall be rugged and chemically resistant, with fluoropolymer electrical insulation, tinned copper braid and fluoropolymer over jacket.
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- The termination of the self-regulating heating cable shall be made using components as approved by the manufacturer. For T2Red, terminations and connections shall be made using components as manufactured by Chemelex and detailed in the Raychem Floor Heating Handbook.
 - 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 underfloor heating cables shall be capable of a maximum circuit length Pof 100 m.
 - 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 Raychem programmable digital floor temperature sensing thermostats, 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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