

T2RED HEATING CABLE & T2REFLECTA INSULATION BOARD

nVent

RAYCHEM

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, nVent RAYCHEM T2Red, as manufactured by nVent, 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 nVent.
 - 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.
- 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 nVent 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 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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