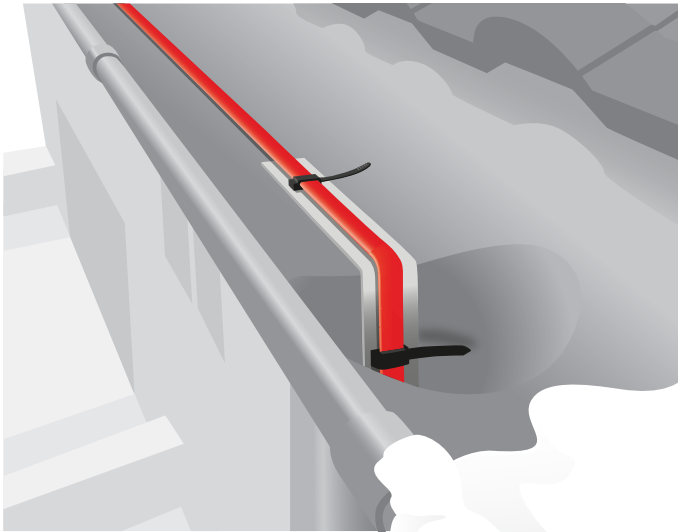


### Specification guideline snow melting system for gutters, roofs & downpipes



- All gutters, down pipes and roof edges shall be fitted with an energy efficient, self-regulating trace heating system, nVent RAYCHEM GM-2X or GM-2XT, as manufactured by nVent, to prevent winter damage and icicle formation.
  - The system shall be complete with cold components, energy efficient controls and a 10 year product warranty.
  - The nVent RAYCHEM self-regulating heating cables shall be capable of demonstrating a lifetime in excess of 25 years.
  - The self-regulating heating cables shall have modified polyolefin electrical insulation (radiation cross-linked, to ensure long life expectancy), tinned copper braid and UV resistant, modified polyolefin or fluoropolymer over jacket with metre marks for ease of installation.
  - The heating cables shall be capable of demonstrating a power output of 36 W/m in iced water and 18 W/m in the air at 0°C, installed at a maximum circuit length of 80 metres.
- Interconnection and termination shall be with cold applied, insulation displacement connectors and gel type end seals, UV resistant, IP 68, 65°C rated, with audible and visual installation confirmation, as manufactured by nVent and known as nVent RAYCHEM RayClic.
  - All trace heating circuits shall be controlled via an energy efficient, integrated gutter temperature and moisture sensing controller with variable sensitivity settings, known as nVent RAYCHEM Elexant 650c-Modbus, as manufactured by nVent.
  - All heating cables shall be installed within maximum circuit length, tested and commissioned strictly in accordance with the manufacturer's instructions, preferably by a specialist installer named by the supplier. The commissioning report must be registered to gain benefit from the 10 year product warranty.
  - Each nVent RAYCHEM heat-tracing circuit shall be protected by an MCB (BS EN 60898 type C) and RCD (30 mA sensitivity, tripping within 100 ms). Isolators shall be provided for each circuit.
  - Wiring between the trace heating circuits, terminal units, the controller(s), the contactor and the distribution board shall be done by an electrical contractor.
  - For asphalt/bitumen roofs only the self-regulating heating cable nVent RAYCHEM GM-2XT can be used.
  - For flat roof drains the de-icing and snow melting draintrace system nVent RAYCHEM RIM-DRAINTRACE-KIT (RIM-DT-Kit) can be used. It creates melt channels for the snow melt to flow into the drain.
  - RIM-DT-Kit system is a turnkey roof ice melt unit for roof drains. It consists of a central aluminum ring which could go around up to 355 mm diameter roof drain. The ring consists of six tabs that can be inserted into the RIM-C channel panels, each 600 mm long. 16 m of a pre-terminated nVent RAYCHEM GM-2XT heating cable is provided for routing to and from the channel panels and the drain. A cold lead of 8 m is pre-terminated to the heating cable including an end seal.

## IN ENGINEERING NOTES COLUMN

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- All gutters, down pipes and roof edges shall be fitted with an energy efficient, self-regulating trace heating cable, known as nVent RAYCHEM GM-2X or GM-2XT, to prevent winter damage and icicle formation.
- Interconnection and termination shall be with cold applied, UV resistant, insulation displacement connectors and gel type end seals, known as RayClic.
- All trace heating circuits shall be controlled via an energy efficient, integrated gutter and moisture sensing controller, known as nVent RAYCHEM Elexant 650c-Modbus.
- The system shall be complete with a 10 year product warranty.
- The trace heating systems shall be installed, tested and commissioned strictly in accordance with nVent RAYCHEM recommendations and preferably by a specialist installer named by them.

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