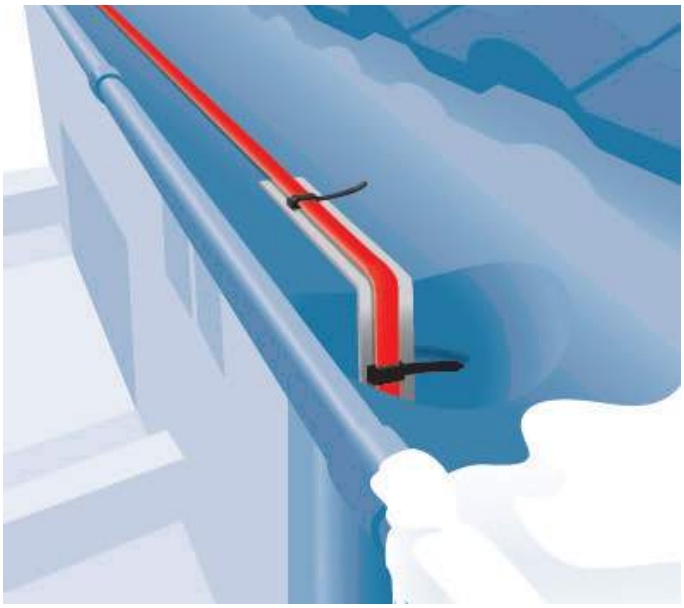
ICESTOP GM-2X AND GM-2XT

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 5 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 over jacket with metre marks for ease of installation.
- The heating cables shall be capable of demonstrating a power output of 36W/m in iced water and 18W/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 ambient temperature and moisture sensing thermostat, known as nVent RAYCHEM EMDR-10, as manufactured by nVent.
- The temperature sensor shall be a PTC (FL103) type, IP54 rated, capable of withstanding temperatures of -30°C and 80°C. The moisture sensor shall be a PTC type sensor with variable sensitivity settings.
- 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 5 year product warranty.
- Each nVent RAYCHEM heat-tracing circuit shall be protected by an MCB (BS EN 60898 type C or D or equivalent) and RCD (30mA sensitivity, tripping within 100ms). Isolators shall be provided for each circuit.
- Wiring between the trace heating circuits, terminal units, the thermostat(s), the contactor and the distribution board shall be done by an electrical contractor.
- For asphalt/bitumen roofs only the selfregulating heating cable nVent RAYCHEM GM-2XT can be used.

IN ENGINEERING NOTES COLUMN

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- 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 ambient and moisture sensing thermostat, known as RAYCHEM EMDR-10.
- The system shall be complete with a 5 year product warranty.
- The trace heating systems shall be installed, tested and commissioned strictly in accordance with RAYCHEM'S recommendations and preferably by a specialist installer named by them.

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