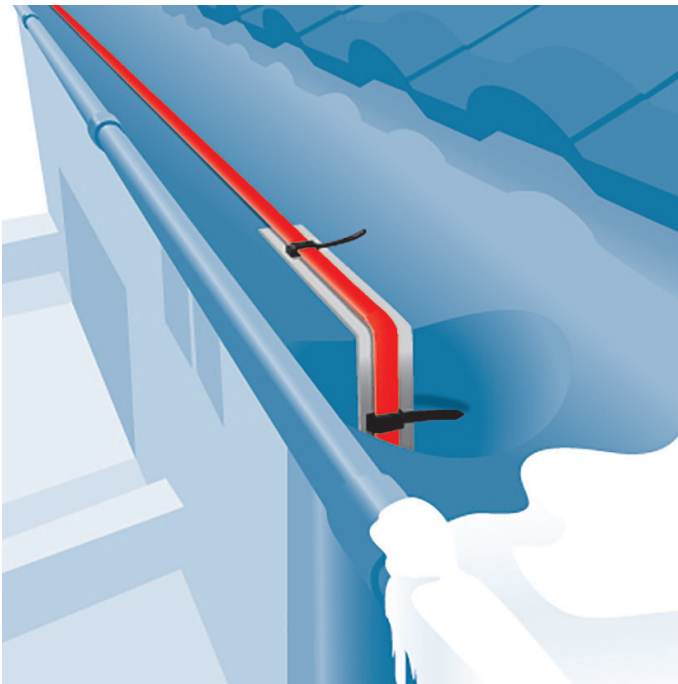


SPECIFICATION GUIDELINE SNOW MELTING SYSTEM FOR GUTTERS, ROOFS & DOWNPIPES



MULTI CIRCUIT CONTROL AND MONITORING PANEL

- All snow & ice melting circuits for gutters and drain pipes shall be controlled and monitored via an integrated, electrically protected multi circuit control panel, nVent RAYCHEM SBS-xx-EV-10, by nVent.
- The panel should be purpose built and approved for the control and monitoring of nVent RAYCHEM GM-2X/GM-2XT self regulating heating cables, by nVent. The panel shall incorporate the energy efficient control and monitoring device, nVent RAYCHEM EMDR-10, by nVent and have multi-sensory input for moisture and temperature control.

PRODUCT, TECHNICAL AND PERFORMANCE REQUIREMENTS:

- The control and monitoring panel shall have, as a minimum
 - EN60204-1/EN60439-1 compliance, CE approved for use with Raychem heat tracing systems
 - RAL7035 (Light Grey) Coated Metal Housing – IP54 rated
 - A volt free alarm contact to indicate
 - RCD or circuit breaker failure mode
 - Loss of power to the unit
 - Controller or sensor error mode
 - EMDR-10 multi-sensor control unit as the central control device for standard heating/economy functions
 - Type C circuit protection and residual current device (30 mA rated) per heating circuit
 - Mounted terminal blocks for easy connection of the heating circuits within the panel
 - Potential free alarm function for sensor breakage/failure, sensor short circuit, and power loss
 - The EMDR-10 shall also be compliant with EN60730, EN50081-1, and EN50082-1
- The GM-2X/GM-2XT heating circuits shall be switched via contactors and be protected with an MCB (BS EN 60898 type C or D or equivalent) and RCD (30 mA sensitivity, tripping within 100 ms) incorporated into the SBS control panel in order to provide complete electrical protection to the heating circuits.

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