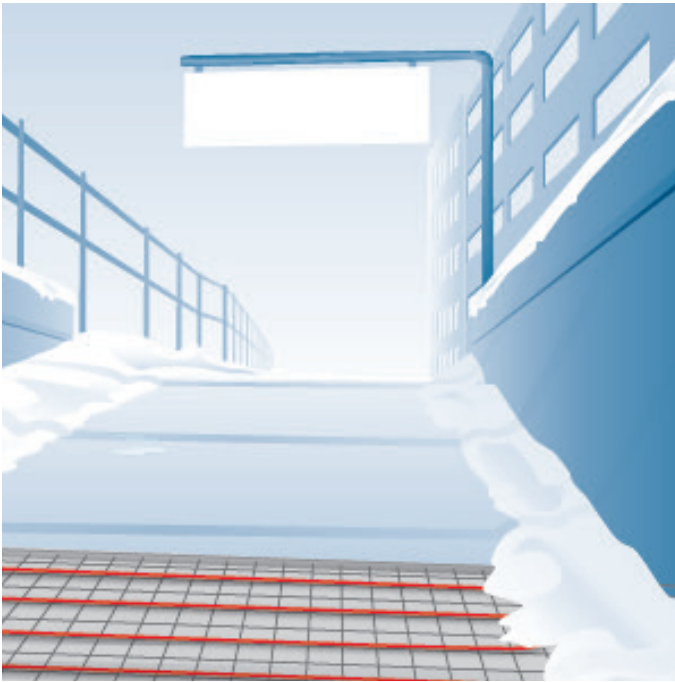


SPECIFICATION GUIDELINE SNOW AND ICE MELTING SYSTEM FOR RAMPS & ACCESS WAYS



MULTI CIRCUIT CONTROL AND MONITORING PANEL

- All ramps/access way heating circuits shall be controlled and monitored via an integrated, electrically protected multi circuit control panel, nVent RAYCHEM SBS-xx-CM-20.
- The panel should be purpose built and approved for the control and monitoring of nVent RAYCHEM EM2-CM constant wattage ramp heating mats, by nVent. The panel shall incorporate the energy efficient control and monitoring device, nVent RAYCHEM VIA-DU-20, by nVent and have 3 sensor control logic, sensing
 - Ground Temperature
 - Ground Moisture
 - Ambient/Air Temperature

PRODUCT, TECHNICAL, AND PERFORMANCE REQUIREMENTS:

- The control and monitoring panel shall have, as a minimum
 - VEN60204-1/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
 - nVent RAYCHEM VIA-DU-20 multi-sensor control unit as the central control device for standard heating/economy functions
 - Separate circuit connection for a drainage channel heater, switch by the VIA-DU-20
 - 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

- In addition to 3 sensor control and monitoring capability, the controller must have the following functions
 - Freezing rain precaution function to switch heating circuits on when there is a risk of freezing rain or sleet
 - Programmable controller and digital display
 - Monitoring of sensor defects
 - Alarm output for remote monitoring at the BMS
- The ramp heating circuits shall be switched via a contactor and be protected with an MCB (BS EN 60898 type C or D or equivalent) and RCD (30 mA sensitivity, tripping within 100 ms), included within the SBS panel

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