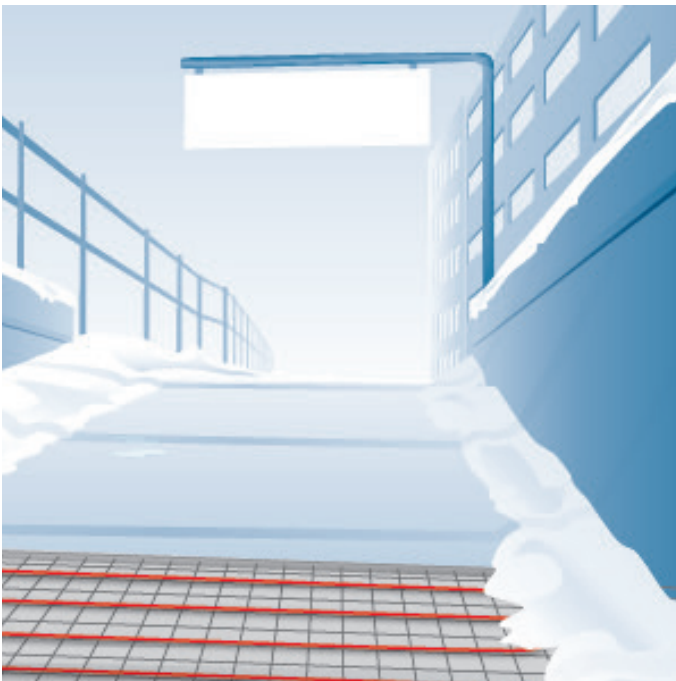


## SPECIFICATION GUIDELINE SNOW AND ICE MELTING SYSTEM FOR RAMPS & ACCESS WAYS



- All exposed ramps/ walkways shall be fitted with a constant power mat, nVent RAYCHEM EM2-CM-MAT, as manufactured by nVent, approved to IEC60800, VDE and CE standards to prevent impeded access in winter.
  - The heating mat shall be constructed with a twin core VCD type constant power heating cable manufactured in accordance with IEC60800. The heating cable within the mat should include an integrated earth continuity braid for additional electrical safety and mechanical protection. It shall be pre-terminated onto a 3 core cold lead for direct connection into a junction box or control panel.
  - The heating mat shall be capable of demonstrating a lifetime in excess of 20 years.
  - The system shall be capable of producing 300 W/m<sup>2</sup> (installation at 300 mm spacing in concrete).
  - The heating mat shall be installed, tested & commissioned strictly according to the manufacturer's instructions, directly onto a stable sub-surface, covered by sand & tiles, or a cement surface. If installation is required under asphalt, please contact nVent.
- The ramp heating control system shall be energy-efficient, with ambient temperature, ground temperature and moisture sensors, as manufactured by nVent and known as RAYCHEM VIA-DU-20. It shall have the following functions - digital display, monitoring of sensor defects, alarm relay 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). Isolators shall be provided for each circuit.
  - Wiring between the control panel, the control sensors, the contactor, the ramp heating circuit's terminal boxes and the distribution board shall be done by an electrical contractor.

### IN ENGINEERING NOTES COLUMN

- All exposed ramps and walkways shall be fitted with a constant power mat, RAYCHEM EM2-CM-MAT, to prevent impeded access in winter.
- All ramp heating circuits shall be controlled via an energy-efficient system with ambient temperature, ground temperature and moisture sensors, known as RAYCHEM VIA-DU-20.
- The heating mat shall be installed, tested & commissioned strictly according to the manufacturer's instructions, directly onto a stable sub-surface, covered by sand & tiles, or a cement surface. If installation is required under asphalt, please contact nVent.

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