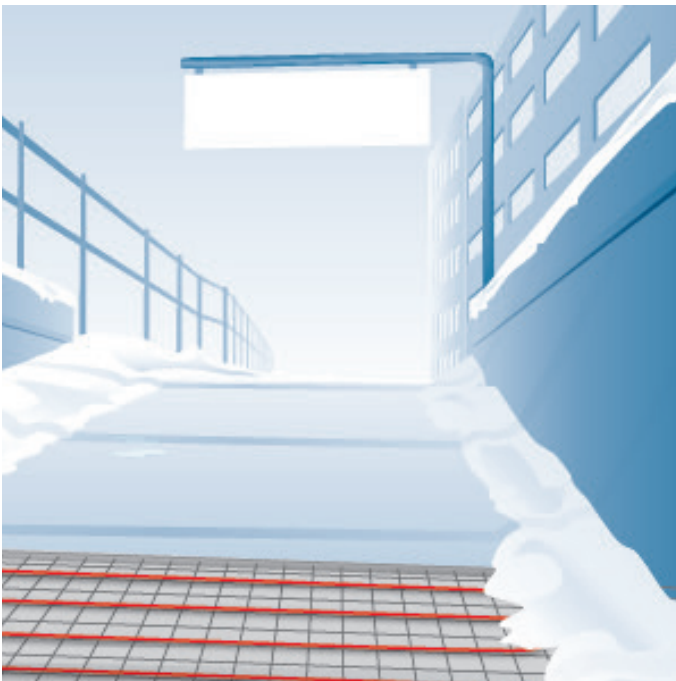


SPECIFICATION GUIDELINE SNOW AND ICE MELTING SYSTEM FOR RAMPS & ACCESS WAYS



- All exposed ramps/walkways shall be fitted with a rugged, 400 Vac, constant power cable, nVent RAYCHEM EM4-CW, as manufactured by nVent, approved to IEC60800, VDE and CE, to prevent impeded access in winter.
 - The heating cable shall be a twin core VCD constant power type, in accordance with IEC60800, with an integrated earth continuity braid for additional electrical safety and mechanical protection. It shall be preterminated by the manufacturer onto a 3 core cold lead for direct connection into a junction box or control panel.
 - The heating cable must be capable of demonstrating a life expectancy in excess of 20 years.
 - The system shall be capable of producing a power output up to 300 W/m² and be powered by a 400 Vac supply.
 - The heating cable shall be installed, tested & commissioned strictly according to the manufacturer's instructions, directly onto a stable subsurface, using the RAYCHEM spacer rail or attached to a reinforcement bar/grid, covered by sand & tiles, or concrete. 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 rugged, constant power cable, RAYCHEM EM4-CW, 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 cable shall be installed, tested & commissioned strictly according to the manufacturer's instructions, directly onto a stable subsurface, using the RAYCHEM spacer rail or attached to a reinforcement bar/grid, covered by sand & tiles, or concrete. If installation is required under asphalt, please contact nVent.

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