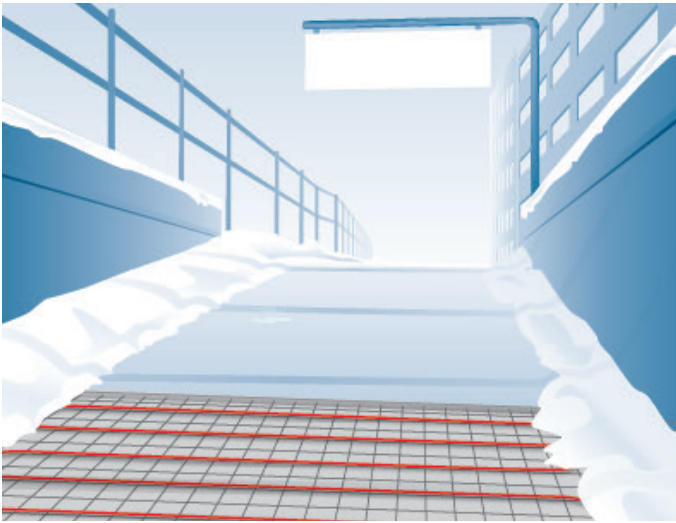


SPECIFICATION GUIDELINE SNOW AND ICE MELTING SYSTEM FOR RAMPS & ACCESS WAYS (ASPHALT)



- All exposed, hot poured asphalt ramps/walkways shall be fitted with rugged, pre-terminated, constant power nVent RAYCHEM MI cables, nVent RAYCHEM EM-MI, as manufactured by nVent, designed specifically to prevent impeded access in winter and suitable for high temperature installations.
 - The MI heating cable shall be pre-terminated, at each end, with 3 m cold leads.
 - The system shall be capable of producing a power output up to 300 W/m².
 - The heating cable shall be installed, tested & commissioned strictly according to the manufacturer's instructions, directly onto a stable sub-surface, using the RAYCHEM spacer rail or attached to a reinforcement bar/grid.
- The ramp heating control system shall be energy efficient, with ambient temperature, ground temperature and moisture sensors, as manufactured by nVent and known as nVent 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, hot poured asphalt ramps and walkways shall be fitted with a pre-terminated, rugged, constant power MI cable, RAYCHEM EM-MI, 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.

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