



DESCRIPTION

nVent RAYCHEM EM2-CM is a constant output heating mat for simple, fast, and effective ramp and accessway heating to prevent snow and ice formation. The “Roll-out” mat configuration allows fast installation whilst ensuring the required power output is installed.

The pre-terminated EM2-CM mat comes complete with a 4m cold lead, removing the need for on-site termination activities. Simply install the heater over the required area and connect the cold lead to the power junction box and “Smart” control unit.

The EM2-CM mat is particularly suited to track heating of ramps, loading bays, and driveways, but also emergency escape routes and pedestrian walkways.

ADVANTAGES

Design phase

- Simple design
- Pre-defined power output
- Variety of sizes available to meet project requirements.

Installation phase

- Pre-terminated heating mat requires no onsite cold lead or end seal connections.
- Heating mat can be simply rolled out over the required surface prior to the cement pour.
- No need to measure cable spacing to ensure a consistent heat output per m² – the mat has a pre-determined fixed heat output of 300W/m².

The applications

- Perfect for tyre track heating – 600mm wide heated track.
- Pedestrian walkways – Pavement heating to reduce personally injury liability around commercial buildings, hospitals etc.
- Emergency exits – Keeping escape routes clear and safe.

TECHNICAL DATA

Nominal Power:	300 W/m ²
Voltage:	230 Vac
Maximum Exposure Temperature:	65°C
Minimum Install temperature:	+5°C
Dimensions:	Mat width of 600mm. Length dependent upon mat size ordered.
Circuit Breaker required:	Type C
RCD:	30 mA
Cable Construction:	Twin core, constant power output heating mat.
Certification:	CE, VDE

RELATED PRODUCTS

nVent RAYCHEM VIA-DU-20

Programmable ramp heating control with ambient temperature, ground temperature, and moisture sensors

PACKAGING AND ORDERING REFERENCES

EM2-CM ramp heating mat is available in the following sizes:

Product name	Order reference	Mat size	Surface
EM2-CM-Mat-2m	1244-004887	2m x 0,6m	1,2 m ²
EM2-CM-Mat-3m	1244-004888	3m x 0,6m	1,8 m ²
EM2-CM-Mat-4m	1244-004889	4m x 0,6m	2,4 m ²
EM2-CM-Mat-5m	1244-004890	5m x 0,6m	3,0 m ²
EM2-CM-Mat-7m	1244-004891	7m x 0,6m	4,2 m ²
EM2-CM-Mat-10m	1244-004892	10m x 0,6m	6,0 m ²
EM2-CM-Mat-13m	1244-004893	13m x 0,6m	7,8 m ²
EM2-CM-Mat-16m	1244-004894	16m x 0,6m	9,6 m ²
EM2-CM-Mat-21m	1244-004895	21m x 0,6m	12,6 m ²

PRE-INSTALLATION GROUND PREPARATION

The heating mat should be installed on a stable subsurface. In suspended structures the substratum may consist of finished slabs, pre-stressed concrete or a suspended structure with poured concrete. The heating mat can be laid on all subsurfaces. In the case of poured concrete, it should be ensured that the surface is smooth and all sharp objects are removed. Ramps on a solid substratum do not require any additional thermal insulation. Appropriate preparations should be made for installing the temperature and moisture sensor.

INSTALLATION INSTRUCTION

Complete installation instructions are supplied with the product and are available electronically from nVent. Please request installation instruction reference: INST-272.

SPECIFICATION GUIDELINE

A product specification guideline is available upon request from nVent. It is also available online at: nVent.com

United Kingdom

Tel 0800 969 013
Fax 0800 968 624
sales@thermalUK@nvent.com

Ireland

Tel 1800 654 241
Fax 1800 654 240
salesIE@nvent.com



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