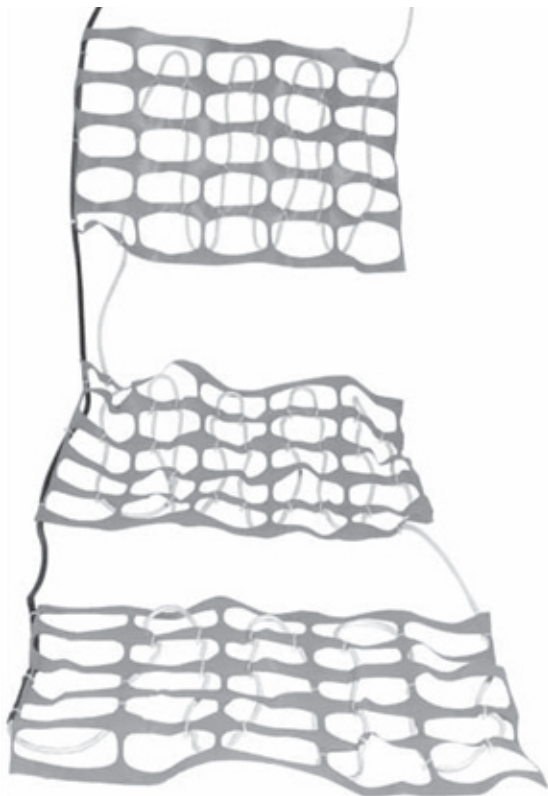


Snow Melt Mats

Slab and Stair
Nominal 50 Watts/Sq. Ft



Slab Snow Melting Mats



Custom Stair Tread Snow Melting Mat

DESCRIPTION

Delta-Therm snow melt mats are designed for residential and commercial installations in either concrete or asphalt. For use in new installations or in repaving applications.

Mats are available in a variety of widths and lengths. A wide range of voltages can also be specified.

Consult Delta-Therm customer service for all custom designed mats.

FEATURES

- Step Mats Available
- Easy To Install
- Waterproof
- Versatile
- Inexpensive
- One-Pour Method
- High Watt Densities
- 20-Foot (6.1m) Cold Leads
- Low Installation Costs
- Custom Sizes Available

APPLICATIONS

- Embedded Snow Melting

APPROVALS

- Meets CSA 2003 C22.2 No. 130.1 and 130.2 standards.

Snow Melt Mat Technical Information

MAT DESCRIPTION

Delta-Therm snow melt mats consist of silicone-jacketed heating cable, cold leads, and a polyethylene substrate. Mats are CSA Certified.

Resistance Heating Cable — The heating cable is comprised of a high-tensile-strength alloy conductor wrapped with 4 mil Kapton[®] tape. The conductor is encased with a .034" (.09cm) thick, off-white silicone rubber rated at 302°F (150°C). An aluminum braid, equivalent to 16 AWG, is woven over the primary insulation to serve as a ground path and to provide mechanical strength. Another .031" (.08cm) layer of off-white silicone rubber is then extruded over the braid to provide water proofing and additional mechanical strength. The cable is spaced to produce a watt density of approximately 50 watts per square foot (538 watts per square meter). Custom mats can be designed up to 60 watts per square foot (645 watts per square meter). Custom designs can also include 120 volt applications. The cable output can be up to 12 watts per linear foot.

Cold Leads — The standard 20' (6.10m) cold leads are either 10 or 12 AWG, depending upon amperage ratings. The stranded copper conductor is encased with .031" (.79mm) thick, red PVC insulation, which is MTW construction. A braid equivalent to 16 AWG is woven over the primary insulation to serve as a ground path and to provide mechanical strength. Another .020" (.51mm) thick layer of black PVC, rated at 221°F (105°C), is then extruded over the copper braid to provide water proofing and additional mechanical strength.

Polyethylene Substrate — The orange substrate is a very coarse mesh of high-density polyethylene with openings large enough (approx. 1" x 3" (3 x 8cm)) to allow concrete to flow through during a pour.

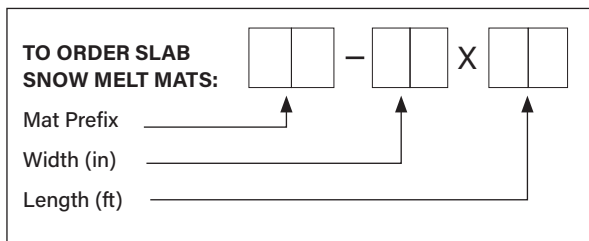
MAT CONSTRUCTION

Cold Lead To Cable — The hot-cold splices are terminated using crimped parallel connectors and then soldered for extra strength. Kapton tape is applied over the splices, followed by shrink sleeves. Splices are then covered by two layers of self-fusing silicone rubber tape. The ground braids are joined using crimped parallel connectors, v tape. The entire splice area is sealed with a polyolefin shrink sleeve.

Cable To Mat — Nylon cable ties join the resistance cable to the substrate.

CUSTOM STAIR TREAD SNOW MELTING MATS

Stair tread snow melting mats are custom built to order. To place an order we will need to know the number of stair treads, length, width, and depth of each tread, and the riser height.



SLAB SNOW MELT MAT SIZES

Part Nos.	Size	Volts	Watts	Amps
MA-18 x 5	18" x 5' (46cm x 2m)	208		1.8
MB-18 x 5	18" x 5' (46cm x 2m)	240	375	1.6
MC-18 x 5	18" x 5' (46cm x 2m)	277		1.4
MA-18 x 10	18" x 10' (46cm x 3m)	208		3.6
MB-18 x 10	18" x 10' (46cm x 3m)	240	750	3.1
MC-18 x 10	18" x 10' (46cm x 3m)	277		2.7
MA-18 x 20	18" x 20' (46cm x 6m)	208		7.2
MB-18 x 20	18" x 20' (46cm x 6m)	240	1500	6.3
MC-18 x 20	18" x 20' (46cm x 6m)	277		5.4
MA-18 x 30	18" x 30' (46cm x 9m)	208		10.8
MB-18 x 30	18" x 30' (46cm x 9m)	240	2250	9.4
MC-18 x 30	18" x 30' (46cm x 9m)	277		8.1
MA-36 x 5	36" x 5' (91cm x 2m)	208		3.6
MB-36 x 5	36" x 5' (91cm x 2m)	240	750	3.1
MC-36 x 5	36" x 5' (91cm x 2m)	277		2.7
MD-36 x 5	36" x 5' (91cm x 2m)	480		1.6
MA-36 x 10	36" x 10' (91cm x 3m)	208		7.2
MB-36 x 10	36" x 10' (91cm x 3m)	240	1500	6.3
MC-36 x 10	36" x 10' (91cm x 3m)	277		5.4
MD-36 x 10	36" x 10' (91cm x 3m)	480		3.1
MA-36 x 15	36" x 15' (91cm x 5m)	208		10.8
MB-36 x 15	36" x 15' (91cm x 5m)	240	2250	9.4
MC-36 x 15	36" x 15' (91cm x 5m)	277		8.1
MD-36 x 15	36" x 15' (91cm x 5m)	480		4.7
MA-36 x 20	36" x 20' (91cm x 6m)	208		14.4
MB-36 x 20	36" x 20' (91cm x 6m)	240	3000	12.5
MC-36 x 20	36" x 20' (91cm x 6m)	277		10.8
MD-36 x 20	36" x 20' (91cm x 6m)	480		6.3

Mat Includes 20 feet (6.10m) of cold lead. Additional cold lead available. Delta-Therm can also provide custom mat sizes.

CONTROLS

DTC24-S	Automatic Snow Melt Control with Slab Sensor
DTC24-A	Automatic Snow Melt Control with Aerial Sensor
MPS	Automatic Snow Melt Control with either sensor

PANELS

DT-XXPXXX	Enclosed Contactor
GFPE-X-X	Power Control Panel w/GFPE
LNR-X	Low Noise Relay Panel
Custom Control/Monitor/Alarm Panels	

ACCESSORIES

NEC Plaque	Embedded Heating System Marker
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