

SNOW MELT MATS

Nominal 50 Watts Per Sq. Ft. Slab And Stair Snow Melting Mats

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.



Slab Snow Melting Mats

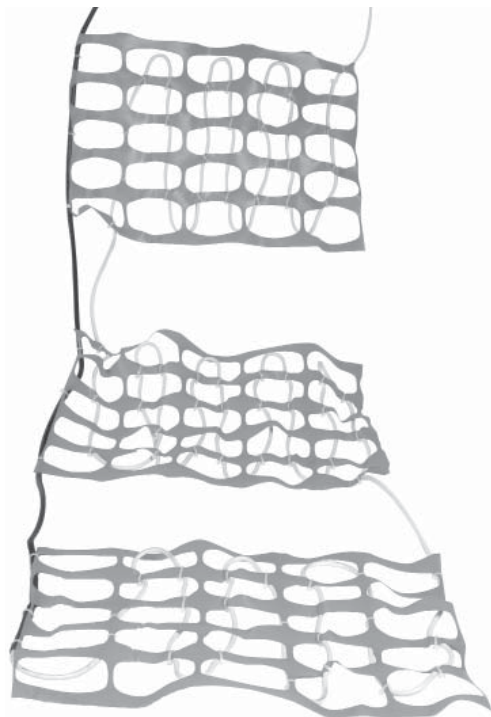
- Step Mats Available
- Easy To Install
- Waterproof
- Versatile
- Inexpensive
- One-Pour Method
- High Watt Densities
- 20-Foot (6.1m) Cold Leads
- Low Installation Costs
- Custom Sizes Available
- Meets I.E.E.E. 515.1 Standards

APPLICATIONS

Embedded Snow Melting

APPROVALS

CSA Certified



Custom Stair Tread Snow Melting Mat



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 lineal 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, and then the splices are wrapped with Kapton tape, followed by silicone rubber 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.

TO ORDER SLAB SNOW MELT MATS: - X

Mat Prefix _____ ↑
 Width (In.) _____ ↑
 Length (Ft.) _____ ↑

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

| | |
|------------------|-----------------------------|
| DTC120-S | Automatic Snow Melt Control |
| DTC120-PS | Automatic Snow Melt Control |
| MPS | Automatic Snow Melt Control |

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's Marker |
|-------------------|----------------------------------|