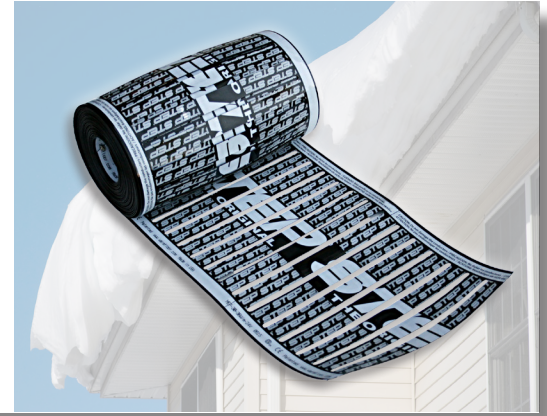


ProLine

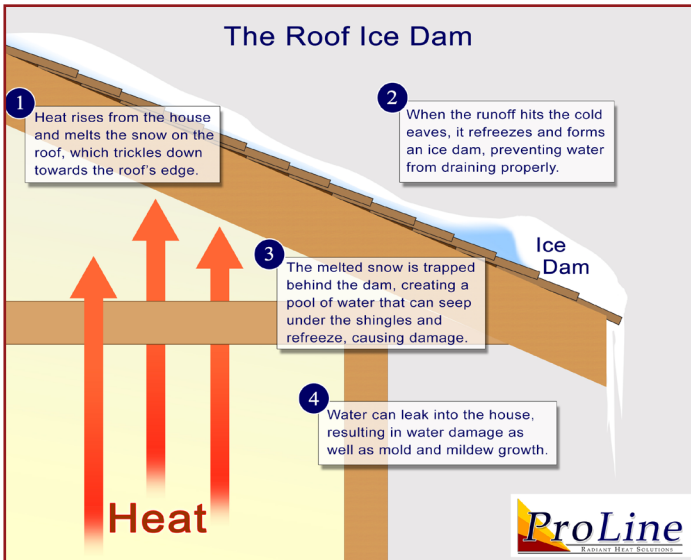
RADIANT HEAT SOLUTIONS

Low-Voltage Roof Deicing Systems



ProLine's Industry Leading Roof Deicing System

ProLine's innovative low-voltage roof deicing systems feature a unique, self-regulating, semi-conductive polymer heating element that is very thin and can be cut on site and discreetly nailed or stapled under shingles for quick, easy installation. The heating element is polypropylene fused during fabrication to provide protection and achieve water proofing.



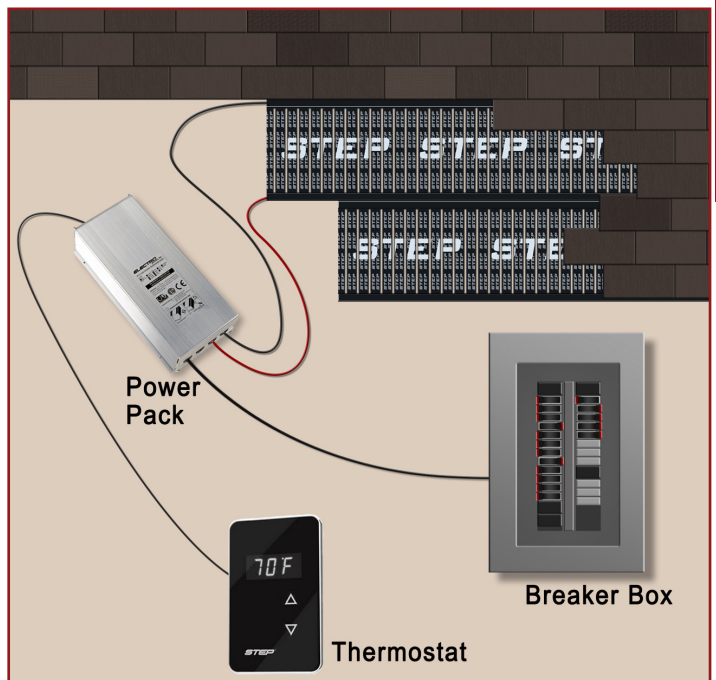
How ice dams form on roof edges.



Heating element being installed under shingles.



ProLine low-voltage roof heating element installed in roof valley.



Overview of ProLine low-voltage roof heating system with element being installed under the shingles.

Roof Deicing

Low-voltage Roof Deicing System

Automated Roof Deicing System

Features and Benefits

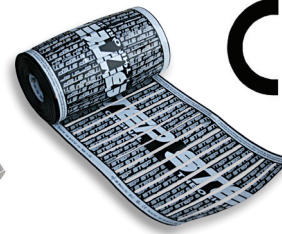
- **Extremely Thin Profile** - The flexible heating element is just 3/64-inch, allowing for simple, discreet installation under roofing.
- **Self Regulating** - When the ambient temperature rises, the electrical resistance increases and the consumption of electricity decreases, preventing the element from overheating and ensuring energy-efficient operation.
- **Maintenance Free** - Because the radiant heating system has no moving parts, it is reliable and maintenance free.
- **Easy Installation** - Roll out the flexible heating element and cut to size while on the job site for a perfect fit.
Unlike many other roof heating systems, the low-voltage polymer heating element can be nailed or stapled through, simplifying the installation process.
- **Versatile** - ProLine Radiant's low-voltage system can be safely installed under most roofing materials, including metal.
- **Power Options** - The system operates on 24 volts (AC/DC) and can also be connected to a wind or solar power supply.
- **Protective Polypropylene Fabrication** - The product is polypropylene fused during fabrication to achieve water proofing.
- **Energy Efficient** - The roof heating system requires minimal power consumption. For even greater energy savings when heating metal roofs, use a heat retention mat.

Heating Element Technical Data

Heating technology	Positive temperature coefficient (PTC) semi-conductive polymer
Width	12 inches (305 mm); Also available in widths of 3, 9 inches.
Thickness	3/64 inch (1.2 mm)
Length	Cut to order (maximum per strip: 32 feet (9.75 meters))
Secondary draw per foot	24 volts @ 68°F (20°C): 45 amps 24 volts @ 32°F (0°C): 54 amps
Warranty	10 years
Approvals	ETL listed; hazardous
Certifications	Class I, Div.2 Groups A,B,C,D Class II, Div.2 Groups F,G Class III

Power Supply Technical Data

Low-voltage dry type isolation power supply
Extruded aluminum profile enclosure with heat sink
120, 208, 240 VAC primary and 24 VAC secondary
Primary and secondary circuit protection
RoHS compliant interface board
2-year warranty



PROLINE LOW-VOLTAGE ROOF HEAT ORDERING INFORMATION

Heating Element

Item Code	Description (width)	Output @ 68°F	Output @ 32°F	Voltage
PL-E-30-36W	12-inch wide heating element	11.0 W/ft.	13 W/ft.	120, 208-240
PL-E-30-70W	12-inch wide heating element	21.3 W/ft.	24 W/ft.	120, 208-240
PL-E-23-36W	9-inch wide heating element	11.0 W/ft.	13 W/ft.	120, 208-240
PL-E-23-80W	9-inch wide heating element	24.0 W/ft.	27 W/ft.	120, 208-240
PL-E-7-30W	3-inch wide heating element	9.5 W/ft.	11 W/ft.	120, 208-240

Power Supply

Item Code	Description	Amperage	Voltage
PL-LX-250	Power supply	1 x secondary circuit 25A	120, 240
PL-LX-500	Power supply	1 x secondary circuit 25A	120, 240
PL-LX-R-250	Power supply w/regulator, 250 W	1 x secondary circuit 25A	120, 240
PL-LX-R-500	Power supply w/regulator, 500 W	1 x secondary circuit 25A	120, 208-240
PL-LX-R-1000	Power supply w/regulator, 1000 W	2 x secondary circuit breakers	120, 208-240
PL-LX-R-1500	Power supply w/regulator, 1500 W	2 x secondary circuit breakers	120, 208-240

Controls

Item Code	Description	Voltage
PL-EPI-LX-TC	Thermostat with sensor	120, 208-240

Accessories

Item Code	Description
PL-T-Block	Terminal block 2-bar
PL-TBE-4	Terminal enclosure
PL-TBE-6	Terminal enclosure
C&T-10	Connector and tape kit (10 pieces per pack.)
CON-DB	Connector DB TCU. (Priced per piece.)
TAPE-R	Sealant tape - roll
TCU14-Black/White	Tinned copper wire, 14 AWG. (Priced per foot.)
TCU12-Black/White	Tinned copper wire, 12 AWG. (Priced per foot.)
TCU10-Black/White	Tinned copper wire, 10 AWG. (Priced per foot.)
PL-3-Conductor	Signal wire from power supply. (Priced per foot.)
PL-TOOL	Crimp tool
PL-TAPE-10	Roll of double coated tape - 3 inches x 30 feet
PL-TAPE-5	Roll of double coated tape - 3 inches x 15 feet
PL-HRP	Polyurethane padding. (Priced per square foot.)

ProLine Radiant accepts no responsibility for possible errors in catalogs, brochures, other printed materials, and website information. ProLine reserves the right to alter its products without notice. This also applies to products already on order provided that such alteration can be made without subsequent changes being necessary in specifications already agreed upon. All trademarks in this material are the property of the respective companies. © 2017 All rights reserved.

Roof Deicing



Shoveling and cutting down heavy, dangerous ice and icicles from the roof of a commercial facility.



Mountain cabin with low-voltage roof deicing system installed at the roof edges.