



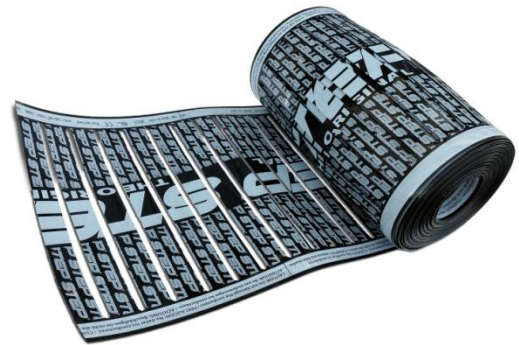
RoofHeat STEP Data Sheet

GENERAL PRODUCT INFORMATION

RoofHeat STEP systems eliminate prolonged ice damming that can cause moisture to seep through roofing materials into roof decking before find its way inside, damaging interiors and resulting in mold growth. RoofHeat STEP deicing systems are an excellent solution for melting snow and ice from roof eaves, valleys and entire roofs.

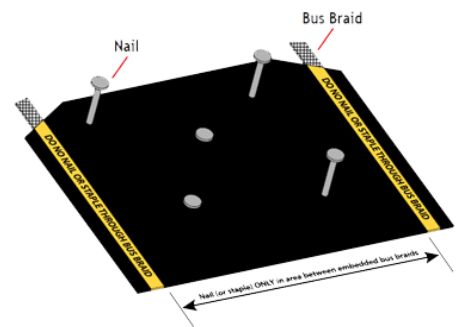
Features Include:

- Flexible installation
- Self-regulating
- Thin, durable construction
- Silent, efficient and safe
- Easy Installation – works under asphalt, shake and tile shingles and metal roofs
- 10-year limited warranty against manufacturing defects



RoofHeat STEP

The RoofHeat STEP deicing system features an extremely thin, self-regulating, semi-conductive Polyethylene heating element that is polypropylene fused during fabrication to achieve water proofing and ensure that the panel is protected against UV rays, alkaline or other potential physical damages. The system operates on low voltage, and does not require a ground fault switch. RoofHeat STEP can be installed under new or existing asphalt, shake, or tile shingles as well as metal roofs. It is ideal for new construction and remodeling projects alike.



RoofHeat STEP Specifications

Construction	Positive Temperature Coefficient (PTC) semi-conductive polymer
Rated Voltage	120, 208, 240
Output	7,9,13,14,22 watts/ft
Height	3/64-inch (1.2 mm)
Width	3", 6", 9", 12"
Weight	0.23 lb/ft (0.34 kg/m)
Outer coating	Impermeable membrane (polypropylene fused)
Max. Temperature	No Max
Min. Installation Temperature	20 degrees (can use power pack to heat element if needed)
Approvals	ETL listed; hazardous

Available in rolls that are 3, 6, 9 or 12-inches wide, the lightweight heating panel easy to install and can be cut to size on the job site. The heating element can be nailed or stapled through, making installation quicker and easier than other traditional roof heating systems.



STEP Low-voltage Roof Deicing Systems

ORDERING INFORMATION

Heating Element

Element Type	Description	Output @ 68°F	Output @ 32°F	Watts per foot at 68°F
MEP-30-36W	12-inch wide heating element	11.0 W/ft.	13 W/ft.	11.3
MEP-30-70W	12-inch wide heating element	21.3 W/ft.	24 W/ft.	21.3
MEP-23-22W	9-inch wide heating element	11.0 W/ft.	13 W/ft.	11.0
MEP-23-80W	9-inch wide heating element	24.0 W/ft.	27 W/ft.	24.0
MEP-7-30W	3-inch wide heating element	9.5 W/ft.	11 W/ft.	9.0

Power Supply

Item Number	Description	Amperage
EPI-LX-250, 120/230V / 24V	Power Supply	1 x secondary circuit 25A
EPI-LX-500,120/208/230V / 24V	Power Supply	1 x secondary circuit 25A
EPI-LX-1000, 120/208/230V / 24V	Power Supply	2 x secondary circuit 25A each
EPI-LX-1500, 120/208/230V / 24V	Power Supply	3 x secondary circuit 25A each
EPI-LX-R-250, 120/230V / 24V	Power Supply w/Regulator	1 x secondary circuit 25A
EPI-LX-R-500,120/208/230V / 24V	Power Supply w/Regulator	1 x secondary circuit 25A
EPI-LX-R-1000,120/208/230V / 24V	Power Supply w/Regulator	2 x secondary circuit 25A each
EPI-LX-R-1500,120/208/230V / 24V	Power Supply w/Regulator	3 x secondary circuit 25A each

Terminal Board

Item Number	Description
T-Block	Terminal Block 2-Bar

Connection

Item Number	Description	Specifications
C&T - 10	Connector & Tape Kit	10 pcs of each per pack
CON-DB	Connector DB Tcu	per piece
TAPE-1	Sealant Tape - cut	2.5 in x 1.5 in
TAPE-R	Sealant Tape - roll	2.5 in x 10 ft

Wire







Item Number	Description	AWG
TCu14-Black or White	Tinned Copper Wire	14 AWG-B /-W
TCu12-Black or White	Tinned Copper Wire	12 AWG-B /-W
TCu10-Black or Red	Tinned Copper Wire	10 AWG-B /-R
3-Conductor	Signal Wire from Power Supply to Thermostat	

Miscellaneous

Item Number	Description
TOOL-PRO	Crimp Tool
TAPE-POLY	Clear Tape to hold down the element strips - 2 inches x 108 feet
PRO-PANEL	¼-inch Light Weight Waterproof Insulation Board - 5 ft x 3 ft

ORDERING INFORMATION

Activation Devices

	Item #	Description
	WS-2C	Aerial Mounted Snow Switch (30 amps) Moisture and temperature sensing
	WS-5	Aerial Mounted Snow Switch (60 amps) Moisture and temperature sensing
	WS-8C	Aerial Mounted Snow Switch (30 amps) Moisture and temperature sensing Includes remote moisture sensor
	WS-AUX	Auxiliary Control Unit for Aerial Mounted Snow Switch
	WS-TF	Aerial Mounted Snow Switch and Controller Moisture and temperature sensing.
	TF-115 or EPI-LX-TC	Air Sensing Nema 4 Outdoor Thermostat or TOUCH Thermostat
	CS-50	50' reel of interconnect cable to go between a aerial snow sensor and Auxiliary Control Unit
	CS-100	100' reel of interconnect cable to go between a aerial snow sensor and Auxiliary Control Unit
	CS-200	200' reel of interconnect cable to go between a aerial snow sensor and Auxiliary Control Unit
	ETOR-55 and ETF- 744/99	Outdoor moisture and temperature sensors (Voltage: 120, 240)

ORDERING INFORMATION

Parts

	Name	Description
	Thermal Plastic Heating Element	Low Voltage – 24VAC or DC Self Regulating – Mylar coated Cut to order; cut in the field
	Step Transformer	Low Voltage dry type isolation transformer 120 / 240 / 277 VAC primary and 24 VAC secondary
	Connectors & Sealant Tape	Crimp Connectors and Tape – for water tight seal 10 pieces per pack
	Sealant Tape	Roll of 2.5 in x 10 ft. Sealant Tape
	Connectors	Crimp Connector Price per Connector
	Extension Wire	#10, #12, and #14 AWG stranded tinned copper, PVC insulated – Black or White Price per Foot
	Crimp Tool	Used to crimp connectors

WARRANTY INFORMATION

Heating Element: 10-year limited warranty.

Controls, transformers and activation devices: 2-year limited warranty.

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