



Description

STEP Snowmelt™ panel is designed to melt snow and ice on entrances, walkways, driveways, ramps, patios, etc.

STEP Snowmelt™ is embedded between two layers of strong tarpaulin to ensure that the panel is protected against alkaline, salts and other physical damages.

STEP Snowmelt™ operates on 24 volts and is connected to a step down power supply.

STEP Snowmelt™ is self-regulating and cannot overheat, thereby using less electricity and does not wear out over time.

STEP Snowmelt™ panel is light weight and flexible, easy to install and can be cut to size on the job site.

Included with the panel:

- STEP Heating Element™ in vinyl
- Crimp connectors and tape (2 per panel)
- Sealant tape to seal watertight both ends of each panel
- Power Supply

Required:

- Braided tinned copper wire to connect the panel to the power supply.
- STEP Crimp Tool

Optional:

- Thermostatic control
- Moisture sensor

Components

Heating element type	Positive Temperature Coefficient (PTC) semi-conductive polymer VEP-30-2-70W-24V	Width: 13" (33 cm) Maximum panel length: 20 ft (6.1 m)
	Length: cut to order	
Vinyl enclosure	PVC coated polyester (tarpaulin)	Thickness: 21 mil (0.54 mm)
Finished panel	Weight: 0.6 lb/ft (1.96 kg/m)	Thickness: 3/32" (2.3 mm)
Power Supply	Low voltage dry type isolation power supply Standard 120 Volts, other voltages available on request	
500 VA	For up to 20 ft of heating element	
1000 VA	For up to 40 ft of heating element; example, 2 panels of 20 ft	
1500 VA	For up to 60 ft of heating element; example, 3 panels of 20 ft	

Electrical Power

Output wattage when powered at 24 VAC	20.5 W/ft (70 W/m) @ 68°F (20°C) 22.5 W/ft (85 W/m) @ 32°F (0°C)
Nom. resistance @ 68°F (20°C)	27 Ω/ft (8.2 Ω/m)
Primary draw on 120 Volts	0.2 Amps per foot (305 mm) of heating element

Maximum extension wire lengths to power supply

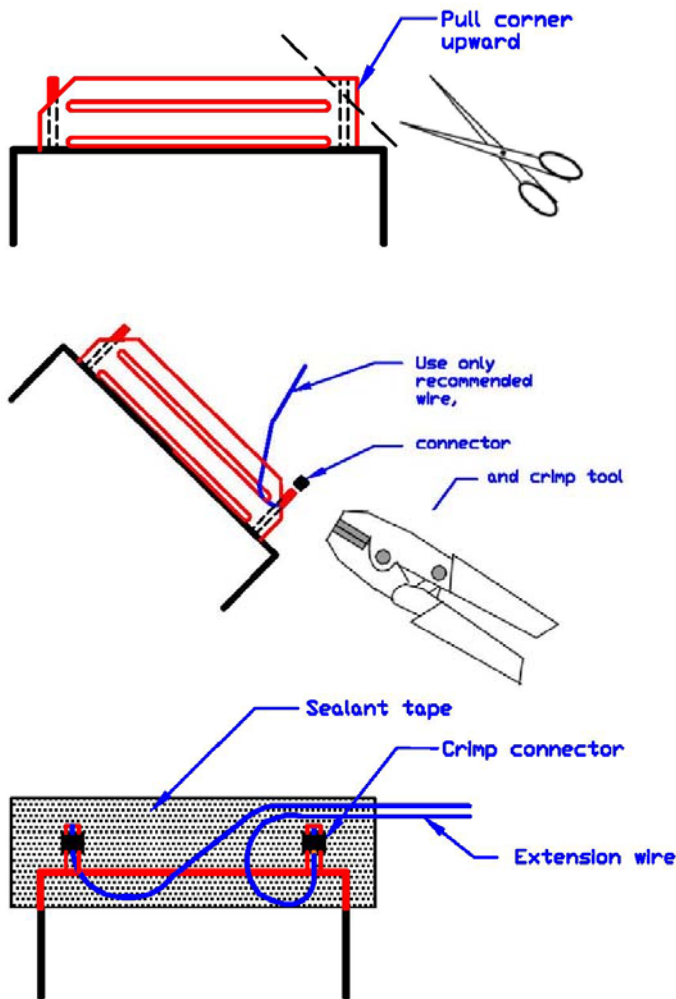
	From Panel (20 ft)
Wire Gauge	Max. 450 W
12 AWG (4 mm ²)	9 ft (2.7 m)
10 AWG (6 mm ²)	14 ft (4.3 m)
8 AWG (8 mm ²)	22 ft (6.7 m)
6 AWG (10 mm ²)	34 ft (10.4 m)
4 AWG (12 mm ²)	54 ft (16.4 m)

Ordering Information

Model No.	Element Length	Power Supply Size	Connector Kit	Sealant Tape
VEP-30-2-70W-24V	13 " wide	24 Volts	Per panel to protect the terminals	Per panel to seal both ends
Maximum total panel length per power supply	20 ft (6.1 m)	500 VA	2 pieces connectors and tape (C&T)	2 x 13-inch (33 cm) long strip
	40 ft (12.2 m)	1000 VA		
	60 ft (18.3 m)	1500 VA		

Installation

The STEP Snowmelt™ panel comes in a vinyl enclosure. If an installation requires attachment with fasteners or screws, this should be done only through the welded edges on the two sides of the panel. DO NOT penetrate the heating element.



- Pull down the vinyl to get to the element.
- To expose the two longitudinal bus braids, cut the plastic on each side of the braid with scissors or make a score in the plastic, front and back, with a knife.
- Bend the element where the cut is made and pull off the corners to remove the surplus of plastic. Make sure that the bus braid is not cut or damaged; should this occur, re-cut the element and re-strip the bus braids.
- Connect the bus braid to an extension wire, minimum #12AWG (4 mm²) PVC insulated, stranded tinned copper wire, 105°C, 600V. Crimp the joint using the recommended tinned copper connectors and crimp tool. Using components not recommended by the manufacturer will void the warranty.
- IMPORTANT: Check that connections are secure.
- Protect each connector with sealant tape.
- To seal the ends of the panel watertight, fold the tape and press firmly together overlapping vinyl, connectors and extension wires.
- Leave space between wires to allow tape to fuse together.

Approvals / Certifications



Conforms to ANSI/UL STD 1693



EN60335-1: 1995
EN60355-2-30: 1997

ELECTRO
plastics, inc.

11147 Dorsett Road
Maryland Heights, MO 63043
1-314-426-3555 phone
1-314.426-3556 fax
www.warmfloor.com

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