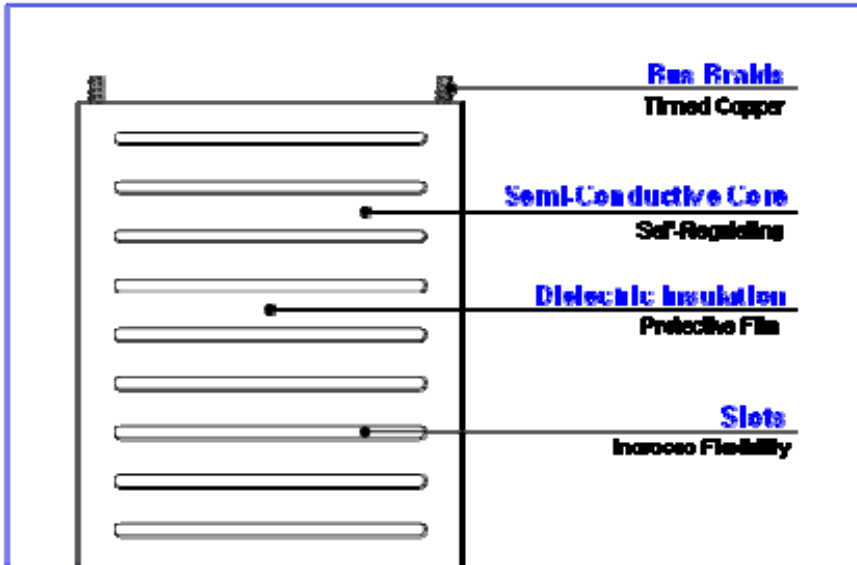


### Construction...



The EP-30-36W-24V STEP Warmfloor® heating element is designed for radiant heat systems in floor warming and room / structure heating applications. The heating element is constructed of two parallel bus braids embedded in a semi-conductive polymeric heating element.

A polymeric dielectric film is applied at the time of manufacture so that the film is thermally joined to the heating element. This creates an element that features a solid and homogeneous construction that will not separate from thermal cycling or physical flexing.

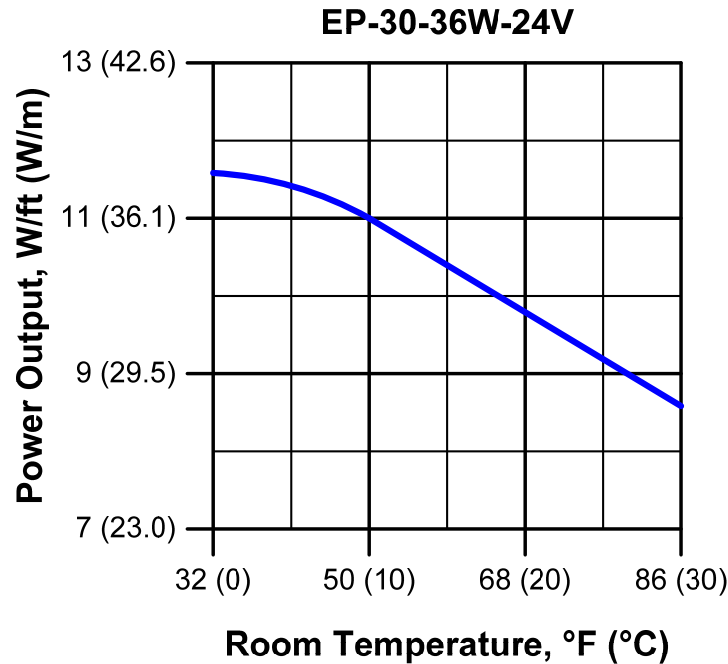
### Applications...

Radiant Heat Systems	Suitable for decks
Finished Floor Compatibility	Ceramic & porcelain tile, natural stone and concrete
Subfloor Compatibility	Concrete slab - embedded and top surface mounting

### Product Specifications...

Heating element type	Positive Temperature Coefficient (PTC) semi-conductive polymer
Dimensions	Width: 12" (305 mm) Thickness: 3/64" (1,2 mm) Length: cut to order with a 174 ft (53 m) maximum shipping spool length Weight: 0.25 lb/ft (0,37 kg/m)
Output wattage	11 W/ft (36 W/m) @ 68°F (20°C) – see power output curve
Supply voltage	24V AC or DC
Bus braid	15 AWG tinned copper flat braid
Dielectric jacket	Protective film thermally bonded to heating element
Minimum bending radius	3/32" (2,5 mm) @ 32°F (0°C)
Maximum exposure temperature	176°F (80°C)
Chemical Compatibility	Do not use in conjunction with aggressive construction glues and adhesives or with asphalt or butyl sealants / membranes

## Power Output Curve...



## Electrical Data...

Amperage draw @ 68°F (20°C) when powered at 24V	0.46 A/ft (1,5 A/m)
Nominal resistance @ 68°F (20°C)	52 Ω/ft (16 Ω/m)

### Element length:

Maximum element length per circuit in the power supply (450W)	40 ft (2,2 m)
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### Power Source:

SELV (safety extra low voltage) power supply EPI-LX-R-250W / -500W / -100W / -1500W  
PV solar panels

### Connection:

Recommended tinned copper connectors and sealant tape  
Crimped to tinned copper lead wires using recommended tool

## Approvals / Certifications...



Conforms to UL 1693 – Third Edition  
Conforms to UL 5085-1 & 2 and CSA-C22.2 No. 66.1 & 2-06



Conforms to EN 60335-2-96:2009  
Conforms to EN 61558-2-2:2007

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