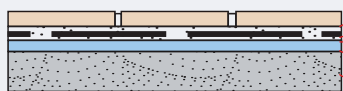


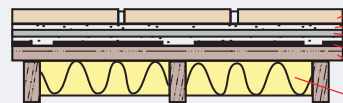
# Flooring Installation Options

## TILE - In thin-set or light concrete



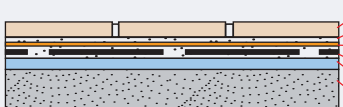
Ceramic Tile  
Latex-Modified Mortar  
STEP Element  
Thermal Insulation /  
Wedi, Cork or equivalent  
Concrete Slab

## TILE - Under cement board



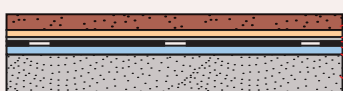
Ceramic Tile  
Latex-Modified Mortar  
Cement Backer Unit  
STEP Element  
Wood Subfloor  
Insulation between Joists

## TILE - Under waterproof membrane



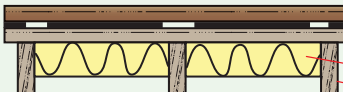
Ceramic Tile  
Cement Mortar  
Waterproof Membrane /  
Kerdi, RedGuard or equivalent  
STEP Element  
Thermal Insulation  
Concrete Slab

## CARPET - Fail safe wiring required



Carpet Stretch-in  
Proper Carpet Cushion  
Healthier Choice or Equivalent  
STEP Element  
Thermal Insulation  
Concrete Slab

## WOOD - Nail down or floating floors



Hardwood / Floating Floor  
STEP Element covered by a PE Film  
Plywood Subfloor  
Insulation  
Joist

## BETWEEN JOISTS - Fail safe wiring required



Hardwood / Laminate / Tile  
Plywood Subfloor  
STEP Element  
Extruded Polystyrene  
Batt or Foam Insulation  
Joist

# System Components

## Heating Elements

These patented low voltage (24V, AC or DC), self-regulating, Positive Temperature Coefficient (PTC), semi-conductive polymer heating elements are only 3/64" (1.2mm) thick. They are available in 12", 9", 6" and 3" widths, and in a variety of wattages for almost any application.



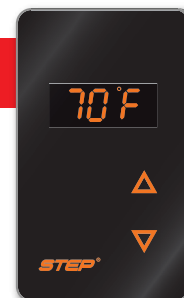
## Power Supply



The **EPI-LX-R** series power supplies are designed with safety and efficiency in mind. These Safety Extra Low Voltage (SELV) power supplies are virtually silent, and are composed of high quality toroidal coils, RoHS compliant interface boards with primary and secondary circuit protection, and are enclosed in an extruded aluminum profile with heat sink. The EPI-LX-R series power supplies have a built-in regulator board for use with our 24V thermostats and are available in 250W, 500W, 1000W, and 1500W power levels and 120V, 208V or 240V voltages.

## Controls

**STEP Touch®** is a low-voltage (24V) thermostat for use with our **EPI-LX-R** series power supplies. This thermostat features a slim contemporary design, easy-to-read backlit display, precise temperature control, and can be set up for either ambient, or floor temperature control modes\*. One thermostat can control multiple **EPI-LX-R** power supplies. Faceplate available in Black or White. \*Which requires an external sensor EPI-LX-TS



STEP Touch® EPI-LX-TC

## Accessories



### Stranded Tinned Copper Wire

Used to extend bus braid wires embedded in the heating elements to the power supply. Available in #10AWG, #12AWG, and #14AWG.



**Tool-Pro**  
Crimp tool designed specifically for use with the STEP crimp connectors.



**C&T-10**  
Connector and tape kit to connect and seal five element strips to extension wires.

# STEP warmfloor®

Self-regulating Technology of Electro Plastics

MADE IN USA



MADE IN USA

# Quick Reference & Installation Guide

Energy Efficient • AC/DC • Safe • Environmentally Friendly



warmfloor.com

## Thermal Insulation Guidelines

- With radiant heating, it is important to have insulation under the heating elements and on the slab perimeter.
- A higher R-value is **required** under the heating elements as opposed to over with a ratio of 4:1.
- Consult insulation manufacturer for deflection/load characteristics, and check that the product and installation procedure is approved for the application.

**STEP warmfloor®**



Manufactured in the U.S.A.  
Electro Plastics, Inc.



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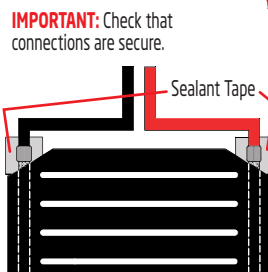
# Plan

- # Install

- ## Connect

- # Cover

- ## Connections and Layout



## Example Layout

