

HIGH PERFORMANCE, GREAT VALUE



# ECOWARM PLUS™

A quick-response modular hydronic radiant heating board system

U.S. Patent # 6,533,185 and patents pending

A sensible earth-friendly choice for today's contractor

The thick aluminum layer of Ecowarm PLUS provides fast heat transfer, and installs with 1/2" PEX, 12 inches on center, for fast installation with few connections. It is ideal for new construction and remodeling alike, thanks to its low profile, light weight and rapid response.

This non-structural board system attaches directly to the subfloor and is compatible with standard construction practices. Wood flooring may be nailed to Ecowarm Plus. EcoWarm board may also be installed over concrete slabs.

- Suitable for use with wood floors
- Responds at low water temperatures
- Even heat distribution, easily controlled
- Environmentally responsible
- Water resistant
- Easily ordered, easily installed
- Layout services available

## PLACING ORDERS IS EASY

Go to [www.ecowarm.us](http://www.ecowarm.us) and submit the Quote Request Form. You'll get a quote and a payment link. Ecowarm is sold over the Internet direct to contractors - no distributor costs. And we offer cost-effective design layout services.

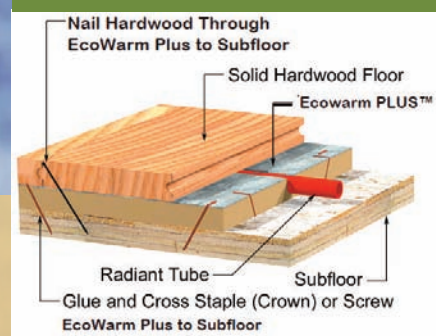
## COST-FRIENDLY

**Time is money.** Ecowarm Plus eliminates scheduling and curing delays required by moisture-laden concrete and gypsum-based cement. **Materials are money.** With Ecowarm Plus you avoid the joist upsizing, double plating and hardwood nailing strips associated with gypsum-based concrete radiant heating systems. Our versatile board size, the 12" OC spacing, and longer 1/2" PEX loop lengths save you and your jobs material and labor costs.

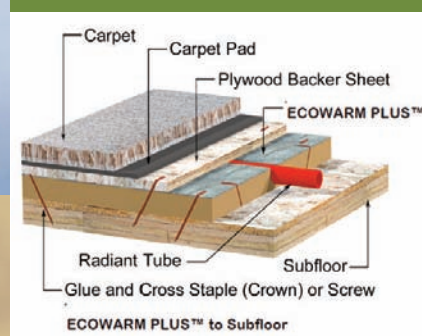
## CONSTRUCTION-FRIENDLY

Ecowarm Plus is pre-grooved with a slightly undercut tube-retaining groove, making tubing installation easy. It may be sequenced early or late in a job, and may be installed with all major flooring products, including the direct nailing of hardwood floors.

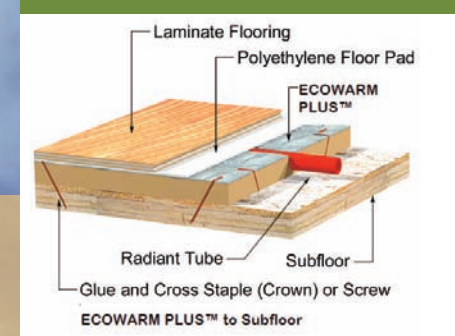
### TRADITIONAL WOOD



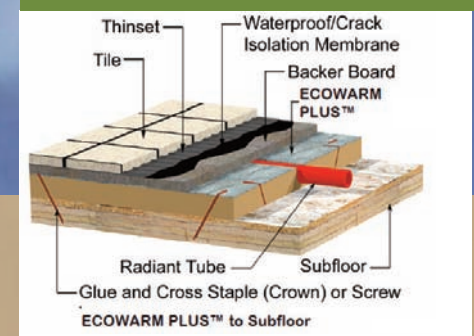
### CARPET



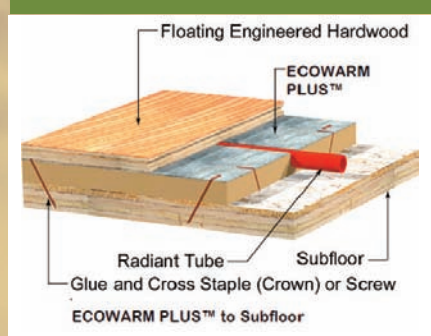
### LAMINATE



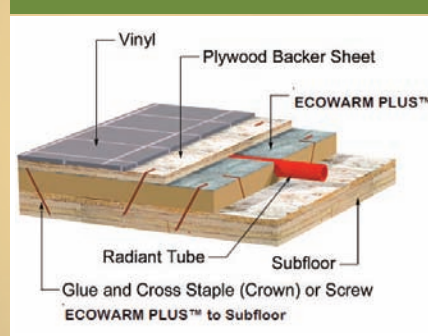
### TILE



### ENGINEERED WOOD

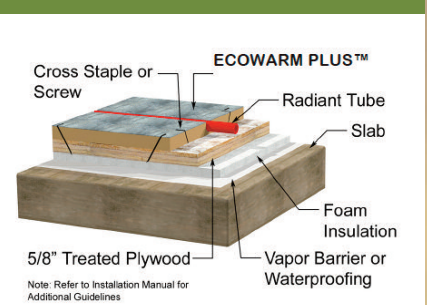


### VINYL



Non-structural Ecowarm Plus is designed specifically for sub-floor applications. It may be installed over concrete, though plywood is the recommended substrata for hardwood floors. Ecowarm Plus is constructed with a premium water-resistant plywood board covered with thick aluminum that spreads the heat evenly and quickly. Due to its thick aluminum, Ecowarm Plus heats rapidly, responds at low water temperatures and is easy to control with setback thermostats for maximum energy efficiency. It contains just enough thermal mass to be effective, but not so much that it's difficult to control.

### OVER CONCRETE



## EASY INSTALLATION in THREE EASY STEPS

Ecowarm Plus can be efficiently installed either by specialty radiant installers or by a general contractor.

Ecowarm Plus is cut to size, glued, then either screwed or pneumatically stapled to a standard subfloor in a pattern to accommodate the 1/2" PEX tubing layout designed for that particular space -- to fulfill the room's heating requirements.

The two easily understood board shapes are usually assembled with very little cutting to form the groove layout for 1/2" PEX tubing. When cutting is required, you can use conventional circular, radial arm or table saws.

Finished flooring goods may then be easily installed over Ecowarm Plus, with reference to our installation manual. Download other tips and considerations from our website. Third party layout documentation and submittal services are available.



[www.ecowarm.us](http://www.ecowarm.us)

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# ECOWARM PLUS™

## RADIANT BOARD

A sensible earth-friendly choice for today's contractor

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### PRODUCT INFORMATION:

**ECOWARM PLUS** boards are manufactured using FSC® certified plywood from sustainably managed forests with a heavy recycled aluminum layer bonded with a water-based VOC adhesive.

**Weight:** Approximately 2.2 lbs. per square foot, 17.5 lbs. per board

**Pallet Size:** 4' x 4' x 32" tall (2 Ecowarm Plus™ boards to a row, 37 rows high) 74 Boards

**Approximate Pallet Weight:** 1310 lbs. (smaller pallets available by special order)

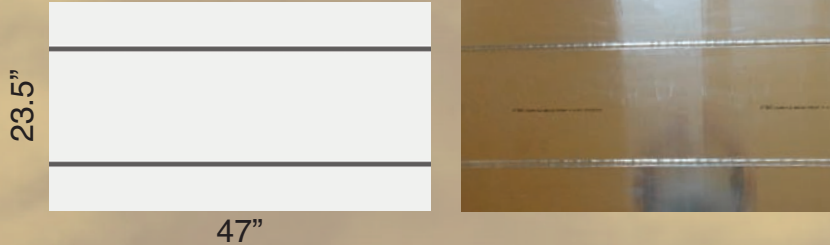
**Approximate Truckload Quantities:** Approximately 20,008 square feet.

**Pallet Appearance:** Shrink wrapped, corner protected, color coded corners by part #

**Recommended Product Mix:** Straight 62%, Supercombo 38%. Allow 5%-10% extra for waste.

### ECOWARM BOARD SYSTEM: *Our innovative 2-shape system lays out easily*

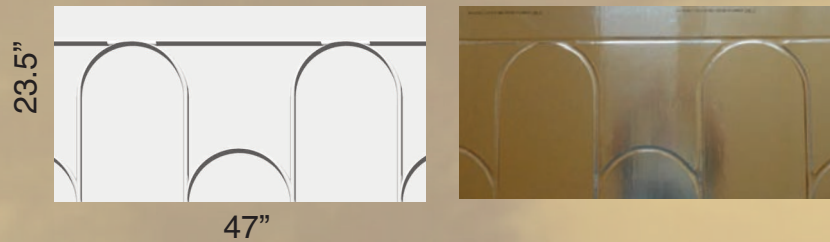
**STRAIGHT:** These are used about 62% of the time.



#### NOTES ON BOARD DIMENSIONS

- These Boards are cut from 4'x 8' sheets of plywood and are therefore a nominal 2'x4' dimension, since some material is lost in the cutting.
- Actual board measurement is 47" x 23.5"
- Tubing is spaced 11.750" on center.
- One quarter radius turns measure 5.935" from the edge.

**SUPERCOMBO:** Used when you need a bypass and/or a return, generally about 38% of the time.



Uses 1/2" PEX

PREMIUM FSC® CERTIFIED PLYWOOD SUBSTRATA

RECYCLED ALUMINUM COVERING with LOW VOC ADHESIVE

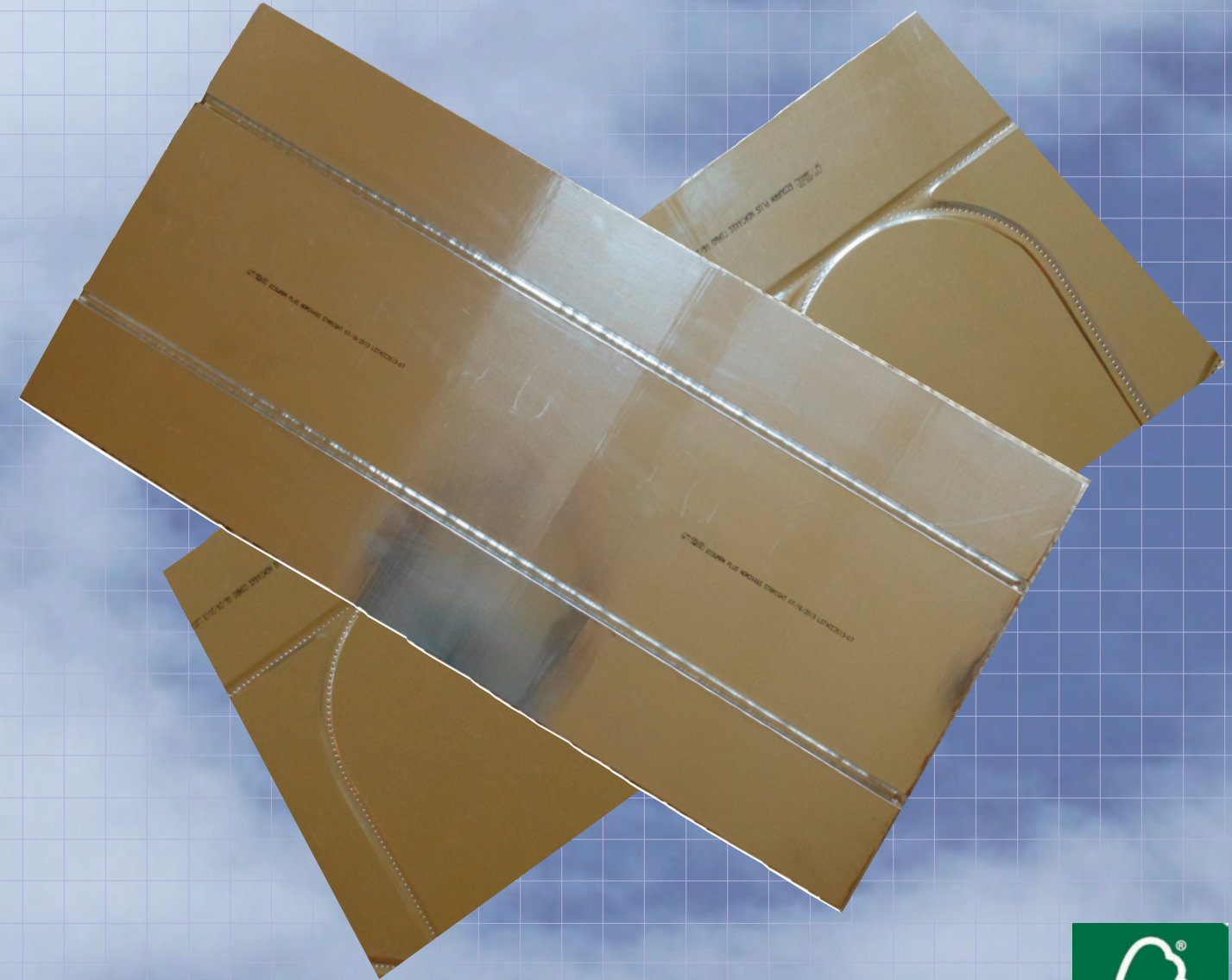
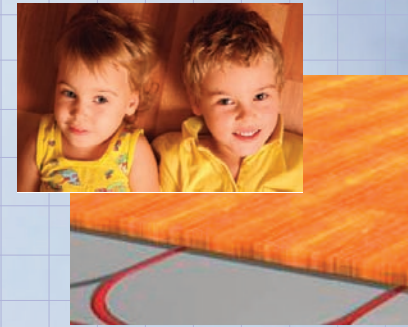
**ECOWARM PLUS** is a high-performing board at a great value. It will appeal to your cost-conscious and environmentally conscious clients.

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