

## THERMALBOARD™ MODULAR HYDRONIC RADIANT HEATING SYSTEM

- Low profile, light weight for easy installation
- Avoid the moisture, weight and mess of gypsum cement or concrete
- Radiant Installations -big or small- can be easily scheduled with no lost concrete curing time
- Cost effective - a great value in radiant heat

**THERMALBOARD™** is ideal for new construction and remodeling, with its low profile (5/8"), lightweight yet but with good thermal mass compared to other wood products. You will be impressed by the product rapid response. THERMALBOARD™ is a genuine advance in the floor radiant heating system you can buy...

### WHY DOES IT WORKS SO WELL...

THERMALBOARD™ is non-structural and designed specifically for subfloor applications. Thermalboard™ is constructed of a medium density fiberboard covered with an aluminum sheet that spreads the heat evenly and quickly. THERMALBOARD™ loads and unloads rapidly providing the highest level of comfort one expects from radiant heat. Low temperature hydronics equates energy efficiency. With today's high-energy costs, this is a product to consider. No other alternative combines the performance, ease of installation and cost effectiveness.

### CONSTRUCTION FRIENDLY

THERMALBOARD™ is installed using conventional construction practices and commonly used tools. With the proper layout plan, the three THERMALBOARD™ panel patterns can be systematically arranged on the subfloor. Not only are the boards light weight -- they're also easy to handle, cut and attach to the subfloor.



### THERMALBOARD™ WARMCOAT:

The THERMALBOARD™ Warmcoat aluminum top layer provides multiple benefits. It is highly conductive. This Warmcoat aluminum layer is also moisture resistant. When the edges and grooves of the THERMALBOARDS™ are sealed using silicone caulking, it provides significant moisture protection for the board. And it provides a barrier to the transmission of any outgassing from the board. Thermalboard™ is manufactured to meet the Federal Housing Authority (FHA) outgassing standard of less than 0.3 ppm of formaldehyde. Independent laboratory tests with 144F° water indicate that, due to the aluminum Warmcoat layer, THERMALBOARD™ has virtually no detectable levels of out gassing.

### PLANET FRIENDLY/GREEN PRODUCT

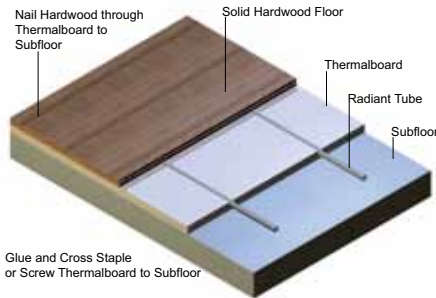
THERMALBOARD™ is made with Green Cross Certified Medium Density Fiberboard (MDF), which is manufactured with recycled wood products. The glue is a zero VOC (Volatile Organic Compounds), and the aluminum layer may be recycled. The MDF used in THERMALBOARD™ has less than HUD minimum Formaldehyde content, and the aluminum layer is a positive barrier to prevent out gassing of formaldehyde. A report by Environmental Analysis Incorporated has provided independent testing of this in real-life heating conditions.

### ECONOMICAL

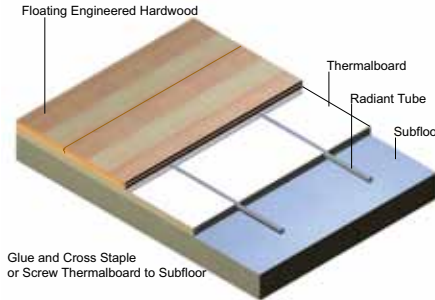
THERMALBOARD™ avoids joist upsizing, double plating and hardwood nailing strips associated with gypsum-based concrete radiant heating systems. Also, THERMALBOARD™ eliminates substantial drying costs required by moisture-laden concrete and gypsum-based cement. Time is money. THERMALBOARD™ eliminates scheduling and curing delays.

**FLOORING FRIENDLY**

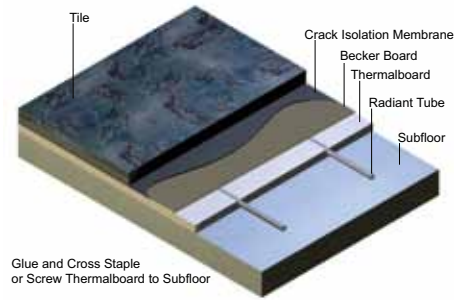
THERMALBOARD™ provides a quality flat surface for floor covering assemblies:



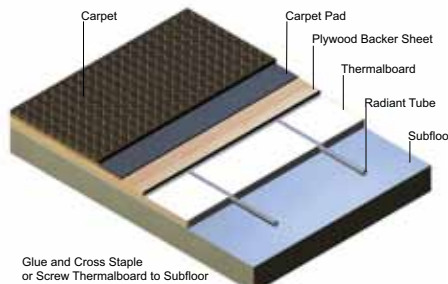
**HARDWOOD**



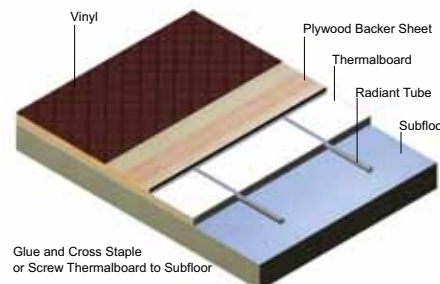
**ENGINEERED WOOD**



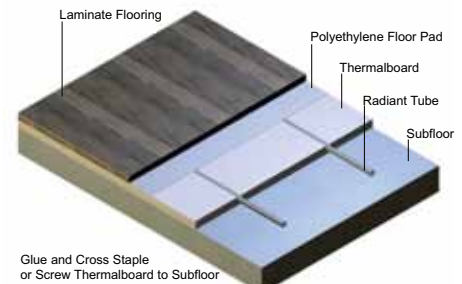
**TILE / STONE**



**CARPET**



**VINYL / RESILIENT FLOORING**



**LAMINATE**

Each of these flooring assemblies are supported by detailed drawings and instructions such as these illustrated above. Consult our application guide for greater detail.

**PLANET FRIENDLY**

THERMALBOARD™ employs fully recyclable wood and a recyclable aluminum alloy. It is made of recovered and recycled materials. Testing by Environmental Analysis, Inc. has revealed no measurable out gassing.

**QUICK INSTALLATION:**

In three easy steps, THERMALBOARD™ can be efficiently installed by specialty Thermalboard™ radiant installers or by a trained general contractor. Thermalboard™ is cut to size, glued, then either screwed or pneumatically stapled to a standard subfloor in a pattern to accommodate the PEOC PLUS PE RT tubing layout needed for that particular space -- to fulfill the room's heating requirements. The three types of THERMALBOARD™ shapes are usually assembled with very little cutting to form the groove layout for the 3/8" PE RT tubing. When cutting is required, you can use conventional circular saws, radial arm saws or table saws. Finished flooring goods may then be easily installed over THERMALBOARD™, with reference to our installation manual.



Dimensions	Each board is 16" x 48" x 5/8" thick.
Square Footage	5.333sq.ft. per board
Weight	Approximately 2.5 pounds per sq.ft., 13.3 pounds per board
Pallet Size	4'x 4'x 24" tall (99 Thermalboards per pallet; 528sq.ft.)
Approximate Pallet Weight	1280 pounds
Approximate Truckload	16,885.44sq.ft. , or 33 pallets, or 42.214 lbs.
Pallet Appearance	Shrink-wrapped, corner protected, color coded corners by part #
Recommended Product Mix	Straight, 70%; Combo End, 15%; Utility End, 15%; *Allow 10% extra for waste.

Layouts will require an accurate heat loss calculation; finish flooring materials for desired rooms and flooring thickness to establish uniform elevations.

THERMALBOARD™ panel layout services are provided from your local THERMALBOARD™ distributor.