Hydronic Alternatives™

RADIANTBOARD

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

RADIANTBOARD is ideal for new **RADIANTBOARD,** 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. **RADIANTBOARD** is a genuine advance in the floor radiant heating system you can buy...

WHY DOES IT WORKS SO WELL...

RADIANTBOARD is non-structural and designed specifically for subfloor applications. **RADIANTBOARD** is constructed of a medium density fiberboard covered with an aluminum sheet that spreads the heat evenly and quickly. **RADIANTBOARD** 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

RADIANTBOARD is installed using conventional construction practices and commonly used tools. With the proper layout plan, the three **RADIANTBOARD** 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.

RADIANTBOARD TOP LAYER:

The **RADIANTBOARD** top layer provides multiple benefits. It is highly conductive. This aluminum layer is also moisture resistant. When the edges and grooves of the **RADIANTBOARD** 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. **RADIANTBOARD** 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 layer, **RADIANTBOARD** has virtually no detectable levels of out gassing.

PLANET FRIENDLY/GREEN PRODUCT

RADIANTBOARD 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 **RADIANTBOARD** 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

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

TB BROCH 2012

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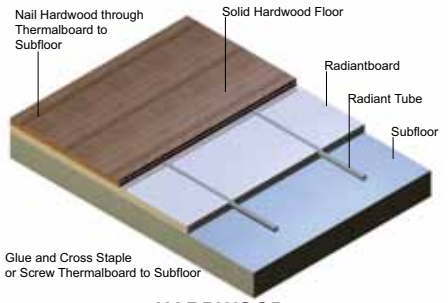
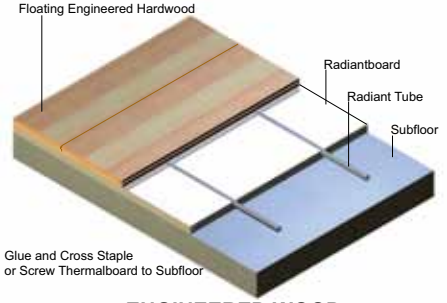
Product Instruction **RADIANTBOARD**

FLOORING FRIENDLY

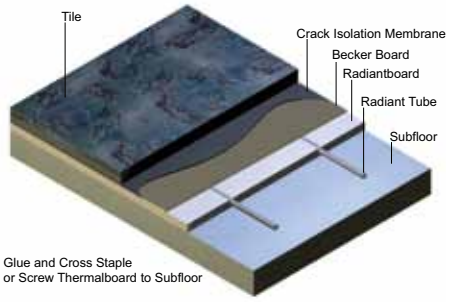
RADIANTBOARD provides a quality flat surface for floor covering assemblies:



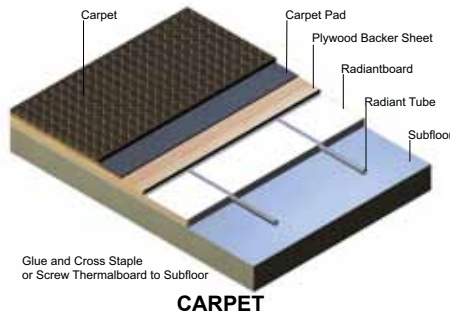
HARDWOOD



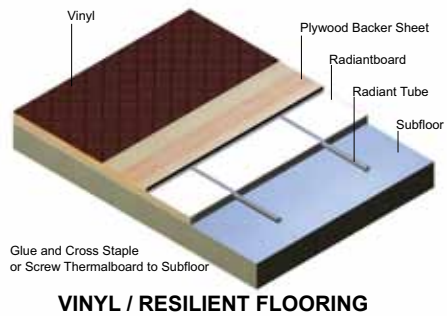
ENGINEERED WOOD



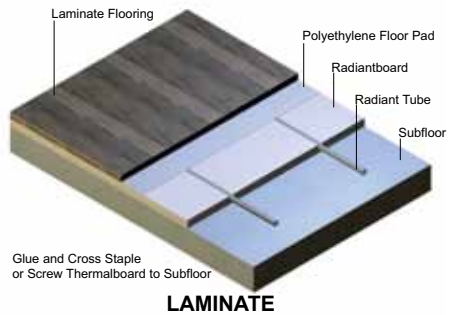
TILE / STONE



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

RADIANTBOARD 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, **RADIANTBOARD** can be efficiently installed by specialty **RADIANTBOARD** radiant installers or by a trained general contractor. **RADIANTBOARD** 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 **RADIANTBOARD** 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 **RADIANTBOARD**, 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 RADIANTBOARD per pallet; 528 sq.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.

RADIANTBOARD panel layout services are provided from your local **RADIANTBOARD** distributor.

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