



warmboard®

When comfort is important,  
Warmboard radiant

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*Heating with propane was costing us six to seven thousand dollars a year. This year with Warmboard it only cost one thousand. That's a huge savings!*

*Chuck V., Vermont. Homeowner, Contractor*

# When comfort is important, insist on Warmboard

## The Ultimate in Comfort

Lying on the beach as the sun warms you to the core is one of life's simple pleasures. Experience that level of comfort throughout your home, customized room-by-room with Warmboard® radiant heat. The essence of comfort is to always be the temperature you desire regardless of changing conditions. Be blissfully unaware as the cold wind blows or the snow falls outside. Warmboard precisely adjusts to match those changing needs, ensuring the temperature you experience is always the temperature you desire.

## Lowest Energy Use

Warmboard's patented technology bonds a thick aluminum plate over the entire panel surface. This superior conductor of heat allows Warmboard to respond more quickly to changing needs while using lower water temperatures than any other radiant system. This means homeowners can expect a much smaller energy bill every month, with many homeowners saving thousands of dollars annually. Over the life of your home, Warmboard rewards your wise investment again and again.

## Improved Air Quality

With Warmboard, there's no need for a forced air heating system. Hot, blown air can irritate the skin and dry out sinuses. These systems circulate dust, mites, mold spores and allergens throughout your home. Warmboard, however, improves indoor air quality. Loved ones suffering from asthma or allergies will find their symptoms significantly reduced with a home that is cleaner and more dust free. The noises associated with forced air will be eliminated so you can enjoy peace and quiet.



*Warmboard guarantees your comfort and peace of mind.*

## Forced Air Examined

In a forced air home, hot air is blown through vents and quickly rises to the ceiling. In a two-story home, the upstairs becomes too hot while the downstairs remains cold. With Warmboard, you don't need to compromise on comfort. Multiple temperature zones allow you to control the setting in any room, so unoccupied rooms can be turned down (or off) to save energy, while others can be set for whatever temperature you desire. The result is a far more comfortable and energy efficient home.



*With forced air, hot air collects at the highest points in your home, wasting energy and making some rooms too hot, others too cold.*



*In a Warmboard home, you get the ideal temperature right where you want it, maximizing comfort and lowering your heating bills.*



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*What we like about Warmboard is that it's a highly efficient system, especially in comparison to other radiant systems.*

*David C., Washington. Architect*

# Preferred by architects

## Smart Design

Architects truly appreciate the simplicity and superiority of our products. Warmboard removes many limitations architects are accustomed to, including the placement of wall and floor vents, duct work, and baseboard or wall radiators which also limit interior design options. Also eliminated are the non-standard framing details and structural issues associated with the weight and thickness of the out-dated radiant slab technique.

## Resource Stewardship

Increasingly important in the design and build communities is the use of green building materials. Warmboard has been the ideal heating solution in this regard for over fifteen years. With recycled aluminum, sustainable forestry products and non-toxic chemicals, Warmboard works perfectly for architects pursuing the ultimate in conservation or LEED certification. We manufacture environmentally responsible products that just make sense.

## Limitless Flooring

Many radiant heating methods, specifically slab-based systems, inhibit your choice of finish flooring. Moisture concerns and the difficulty of fastening hardwood over concrete is both complicated and expensive, while carpeting can actually prevent heat from entering your home. But Warmboard provides a surface that allows hardwood to be easily nailed or glued in place. And our powerful conductivity means thick, luxurious carpets and rugs are not a problem.



*Architects appreciate the freedom of design Warmboard provides.*

## Detailed Documents

Using your designs, we provide a custom set of working drawings to bind into your construction documents, ensuring consistent and competitive bidding of the radiant system. Apples for apples competitive bidding will also save your client's money. These documents provide contractors with the information needed to bid and install Warmboard using best practices. Our professional standards also streamline approvals by code officials.

## Fastest Response

While high mass, slab-based radiant heating had been the standard for years, it's a dated technology with many limitations and caveats. Just as countless innovations have improved our lives, Warmboard has redefined radiant heat. A highly conductive, low mass Warmboard system means not waiting for heat in the morning or overheating your home in the afternoon. High mass, slow response systems are history. Warmboard is the future.



*There's a reason pots and pans are made with thick aluminum and not concrete. Aluminum conducts heat hundreds of times better.*

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*I convinced the homeowners to use Warmboard because it is the easiest to use and has the best design... I've used other systems but Warmboard is the best.*  
Harry S., New Hampshire. Contractor

# Smart for builders

## Faster Installations

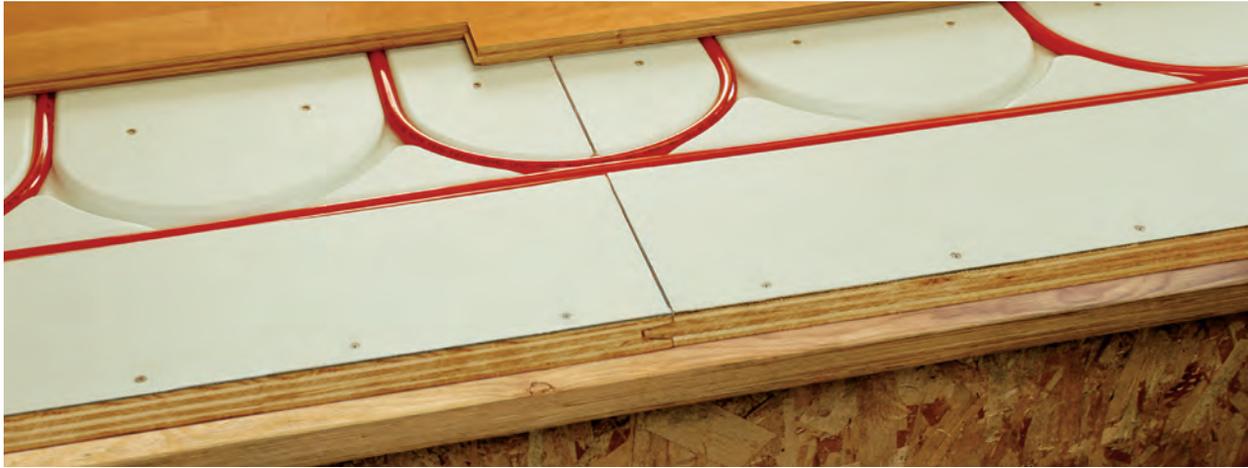
Warmboard stands alone as the only radiant system conceived to be part of conventional construction. Warmboard panels can be sawn, fastened and installed just as you would any structural subfloor. Our detailed construction documents show exactly where to install each panel, enabling a smooth and successful project. Contractors quickly become comfortable with the process. There are no messy concrete pours to worry about, and no lingering moisture or potential mold issues to consider. In all, Warmboard installs more quickly and more conveniently than any other system.

## Cost-Effective

Warmboard provides a host of cost-saving benefits during installation. Compared to other radiant options, Warmboard does away with the costs of an additional subfloor while requiring less labor, less tubing and fewer mechanical components. When compared to a slab-based system, you also remove the high costs of the structural upgrades necessary to accommodate the weight of the pour. Flooring installation costs are lessened, and every part of the install process saves time and is more efficient. All this before the homeowner experiences all the benefits of living in a Warmboard home.

## Happier Clients

The first cold night of the season always has heating professionals worried. Sleep peacefully knowing you've given your clients the very best – a powerful system that quickly responds to any need. With happy clients from Northern Alaska to Antarctica, we are proven to work in the harshest climates. Homeowners have repeatedly confirmed that having Warmboard has made a remarkable difference in the enjoyment of their home. And our lifetime warranty gives added peace of mind. Construction is a word-of-mouth business, and contractors are always pleased when Warmboard brings in that next referral.



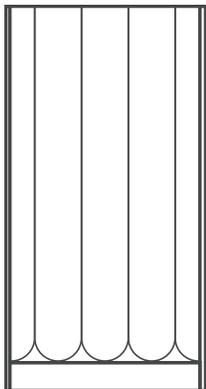
Warmboard-S nails directly to joists like a traditional subfloor. The green paint on our aluminum provides numerous benefits to contractors.



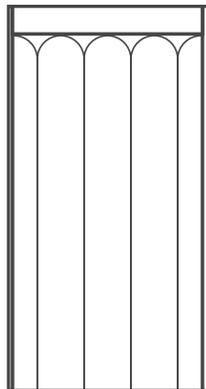
Warmboard-R offers the same performance in a smaller, thinner panel.

## Warmboard-S

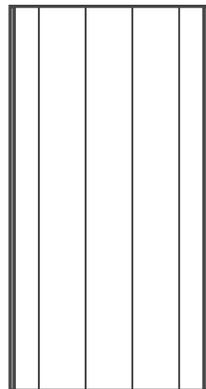
As a code approved structural subfloor, Warmboard-S is exceptionally rigid and strong. Our 1<sup>1</sup>/<sub>8</sub> inch thick, 4x8 foot tongue and groove Douglas Fir plywood panels are made in America using only the best forestry and manufacturing practices. Four panel types accommodate any design imaginable. The quality of Warmboard-S is self-evident and is one of the reasons we give a lifetime warranty.



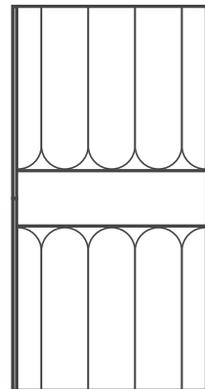
Right Panel



Left Panel



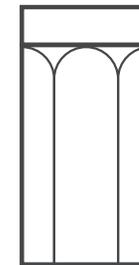
Straight Panel



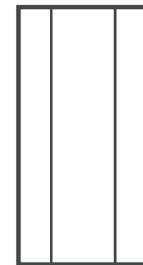
Double Panel

## Warmboard-R

Warmboard-R is designed specifically for remodels. Built with the highest-grade OSB for dimensional stability, the two panel types measure 2x4 feet and are 1<sup>3</sup>/<sub>16</sub> inches thick. The lighter weight and smaller dimension also lends itself to ceiling or wall installations; especially convenient when the existing floor cannot be altered.



Turn Panel



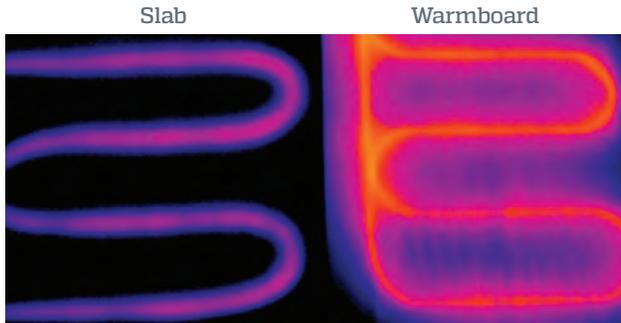
Straight Panel

# Superior performance

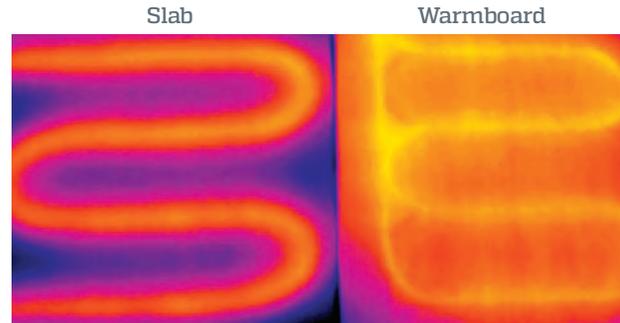
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*Every individual [at Warmboard] seems passionate, and ethical, about the product...where do you find that today?*

JoEllen H., Alaska. Homeowner



Warmboard (right) produces 10 BTUs/sq.ft output in only 20 minutes.



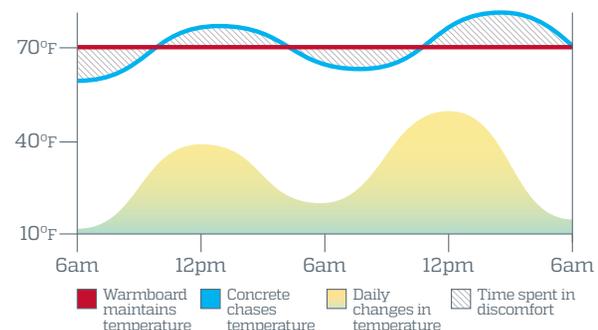
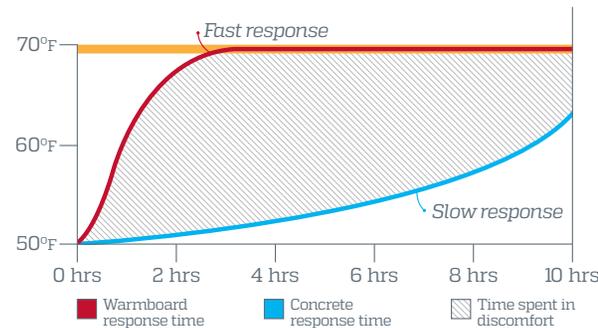
The slab (left) takes 2.5 hours to reach the same output.

- ◀ In a controlled, side-by-side experiment, Warmboard generated 10 BTUs/sq.ft (a common level of required heat output) in only 20 minutes. The slab system took over seven times as long! By that time, Warmboard was producing twice as many BTUs from the same water temperature with much more even floor temperatures.

The images above illustrate why conductivity is essential to radiant comfort. The fact is, Warmboard is over 600% more conductive than thin slab. This is like the performance difference between a car with 50 horsepower and one with 300. Common sense tells us that aluminum is a much more powerful conductor than concrete, which begs the question: Why would anyone choose concrete for a radiant system to begin with?

High conductivity improves every benefit radiant heating has to offer. Your system adjusts more rapidly and more accurately, while floors are warmed more evenly, keeping your feet comfy while protecting your investment in fine flooring. The water temperature needed by your system will be much lower resulting in a significant savings on energy bills and less strain on your radiant equipment.

We designed a smarter product because we understand what's important in a heating system – your comfort.



## Your Customer Service

When you call Warmboard, one of our radiant experts will pick up the phone to answer your questions. Our knowledgeable staff will design a system specific to your needs, maximizing comfort and all the potential our products have to offer.

While we are very proud of the performance and quality of our products, we take even greater pride in providing any support you need throughout the construction process. We're here to help! **Call today.**