



Radiant Floor Systems Product Comparison

	Thickness	Response Time	Floor Goods	Installation	Install Schedule	Cost	Shipping Costs
Radiantmax Overfloor	5/8" thick The thinnest overfloor system using 1/2" tubing. Highest output at the lowest water temp of any system.	Fast response time and highest output due to aluminum heat transfer plates with 8" tube centers	Floor goods attach easily	Flexible installation - pattern can change to fit the room or to allow for hardwood flooring directions easily. Supply and return piping all occurs on the floor - no tubing in unconditioned spaces. Layout changes during construction are easily accomodated. Can be used with a variety of 5/8" or 3/4" furring strip materials such as plywood, particle underlayment, cement board, and even many types of board insulation.	After drywall primed	Lowest installed cost	UPS shipping Furring strips are purchased locally, no cost to ship plywood.
Warmboard - S	1 1/8" thick, requires adjustment in framing height	Fast response - higher water temperatures required due to 12" tube centers.	Floor goods attach easily	Installed by framing crew, panels are very heavy. Each panel is numbered and has to be put down in order. Requires non-coated tubing due to noise issue. Very difficult to change directions, runs may go under the floor. Routing of the metal panels may be required and all the grooves need to be cleaned prior to tube installation.	During floor framing, difficult work surface during rest of construction	High	High - truck freight
Warmboard - R	13/16"	Fast response - higher water temperatures required due to 12" tube centers.	Floor goods attach easily	Each panel is numbered and has to be put down in order. Requires non-coated tubing due to noise issue. Very difficult to change directions, runs may go under the floor. Routing of the metal panels may be required.	After drywall	Medium	High - truck freight
Pourable Underlayment	1 1/2" thick, may require additional bottom plate for trim nailing.	High thermal mass, this slows the response time	More difficult to attach floor goods over the masonry surface. May require crack isolation materials	Installation is done using specialized machine and crew. Product is heavy, adds 12 lbs. per sf to floor. Drying process puts hundreds of gallons of moisture into the structure that has to be removed. Surface is soft requiring care after installation	Typically after drywall. Trades have to be clear for 2 days.	Highest installed cost	NA