REHAU®
Unlimited Polymer Solutions



RAUPLATE™ JOIST SPACE RADIANT HEATING

OUTPERFORMS OTHER HEAT TRANSFER PLATES

As homeowners have become increasingly aware of the importance of energy-efficient building practices and systems, more and more energy-efficient products are being integrated into new construction and renovation. The rise in popularity of hydronic (warm water) radiant floor heating as an alternative to traditional forced-air heating is one indication of a greater awareness about the enhanced efficiency and comfort offered by such technological advancements for the home.

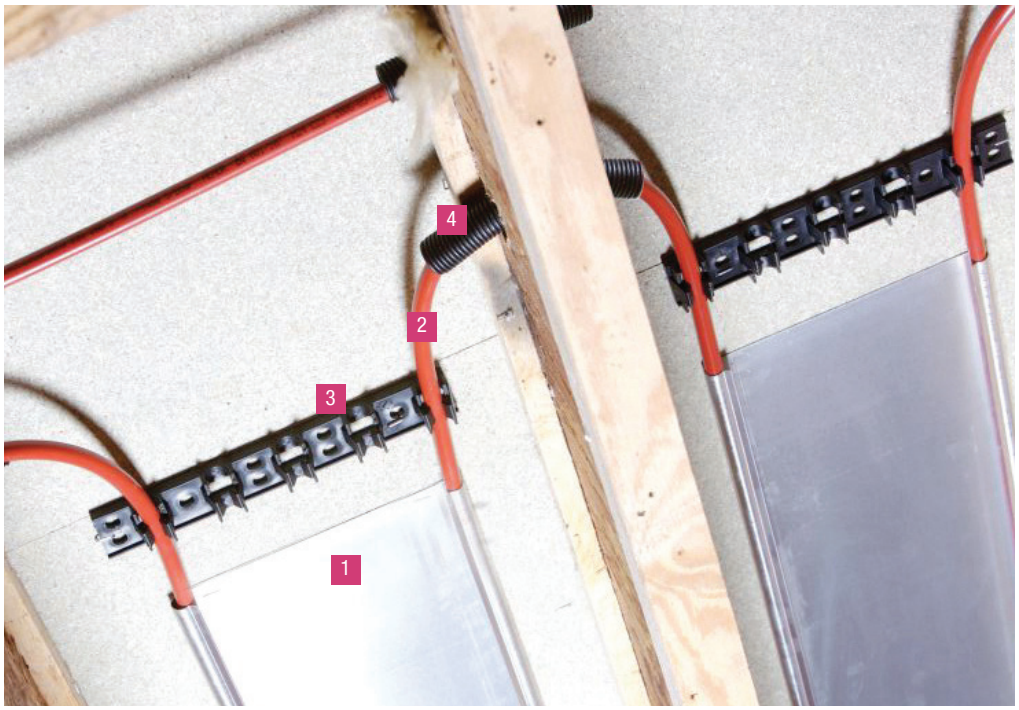
Hydronic radiant heating works by circulating warm fluid through PEX pipes located beneath or encased within a floor. Traditional forced-air heating systems blow hot, dry air around the home, causing drafts and frequent temperature swings. Radiant heating quietly and continuously heats a floor from within, while the floor radiates heat upward to people and objects, and warm air rises gently from the floor. Homeowners with radiant heating typically set their room thermostat several degrees lower than with traditional hot air systems, without sacrificing comfort levels. One of the opportunities to saving energy and costs with radiant heating stems from the fact that a well-built radiant system can heat the space with low-temperature fluid, improving the efficiency of most heat sources.

When coupled with ground-source heat pumps, condensing boiler technology or even solar collection systems, radiant heating can deliver up to a 30% operating cost savings to the customer.

For joist space radiant heating installations, REHAU RAUPLATE is one of the systems that make radiant heating more efficient, while also providing substantial advantages to the contractor or builder.

System components include:

1. RAUPLATE heat transfer plate
2. RAUPEX O_2 Barrier pipe
3. Pipe fastening rail
4. Protection sleeve

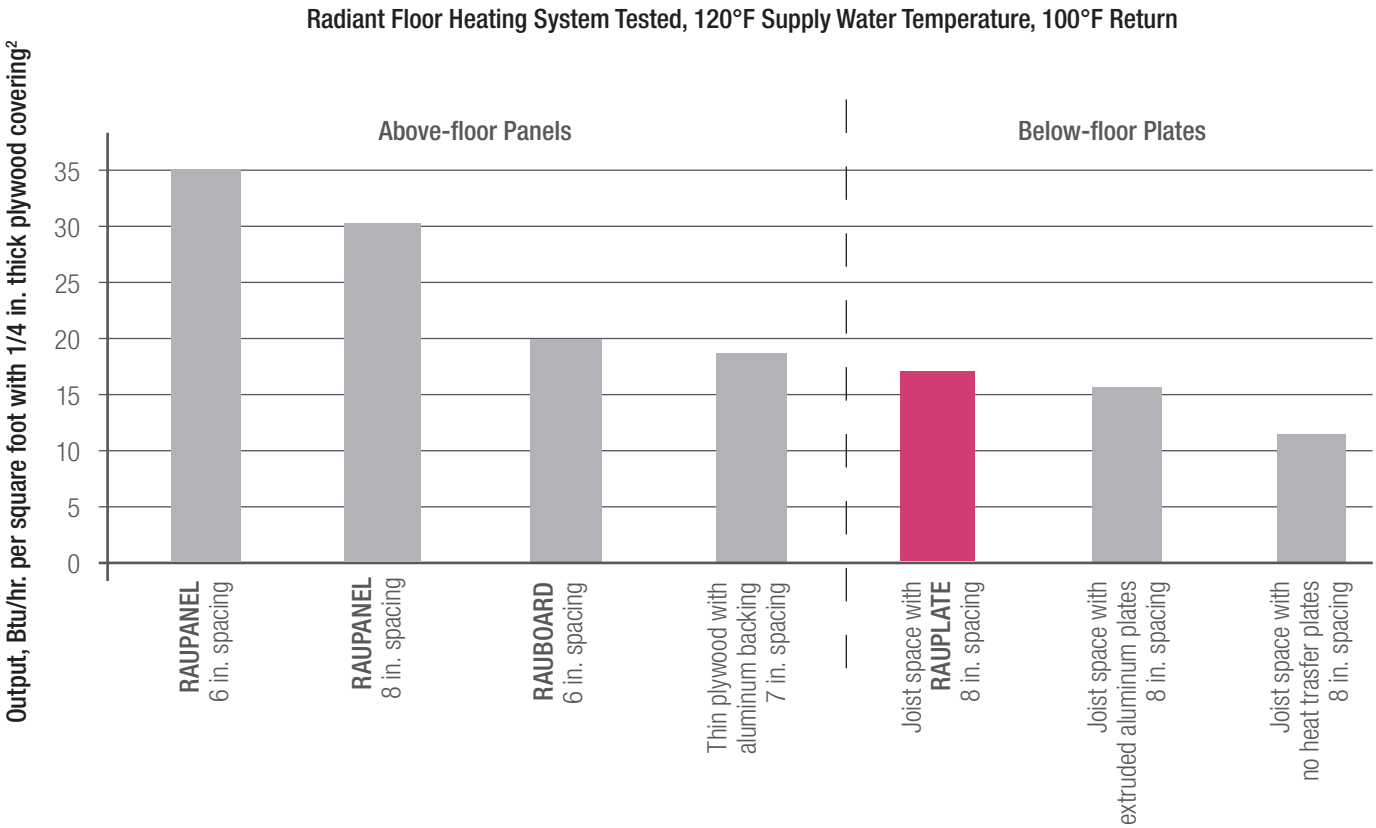


RAUPLATE heat transfer plates are affixed to the underside of the subfloor, eliminating the need to change or add height to the existing floor above. Other benefits of a joist space heating system are the ability to install the plates during new construction or as a retrofit, very low weight, good response time, and even heat output to the floor above.

RAUPLATE is easy to attach to the subfloor. Plates are 4 ft. (1.2 m) long, covering more area than shorter plates. These features can reduce installation time of the plates by 40% or more, as compared to other plate systems.

With its two-channel design, two runs of 1/2 in. RAUPEX® O_2 Barrier pipe easily and securely clip into RAUPLATE, making this not only a time saver, but also a real workhorse when it comes to heat output efficiency! In independent tests according to the European EN1264 standard for hydronic embedded radiant heating systems, RAUPLATE outperformed other types of heat transfer plates.

RAUPLATE offers a lightweight, efficient and easy-to-install radiant heating option for retrofit and new construction residential applications. To learn more about the RAUPLATE system and its benefits, visit www.na.rehau.com/rauplate



Radiant Floor Heating System Relative Output[1]

[1] Results based on test reports issued by IGE - University of Stuttgart, an independent test lab certified to EN ISO 17025

[2] Finished flooring Rλ-value 0.3125 h·ft·°F/Btu

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