

THERMALBOARD

**SUSTAINABLE RADIANT
HEAT PANEL SYSTEM**

JOB:

DESIGNER:

CONTACT:

PRODUCT DESCRIPTION

Thermalboard is a modular radiant panel system comprised of grooved rice straw MDF boards laminated with aluminum designed to be used in new construction and remodeling over a sub-floor or when properly installed, over cement. The two board types in the Thermalboard system have two patterns; straight and end combo that are laid out and installed in a pattern and attached by means of construction adhesive combined with screws or cross stapling as recommended in the Installation Manual. The pattern creates the pathway into which 3/8" nominal ASTM F 876-877 PEX (cross-linked polyethylene) tubing is placed.

TECHNICAL SPECIFICATIONS

Board Construction: 92% recycled content. Certified to extra moisture-resistant standard MR-30.

Nominal Dimensions: 16" x 48"

Thickness: 5/8"

Surface: .003 Aluminum Laminate

PEX: 3/8" Nominal

Groove Depth: 1/2"

No Added Formaldehyde NAF

PEX Tube Spacing: 8" OC

Weight: 2.2 lb. /sq. ft. 18lb/ board

Typical Board Mix: 62% straight. 38% Curves.

Pallet Size: 4'x4'x32" Full.

Pallet Capacity: 74 Boards per Full Pallet.

Packaging: Corner protected. Shrink Wrapped

[More Information](#)

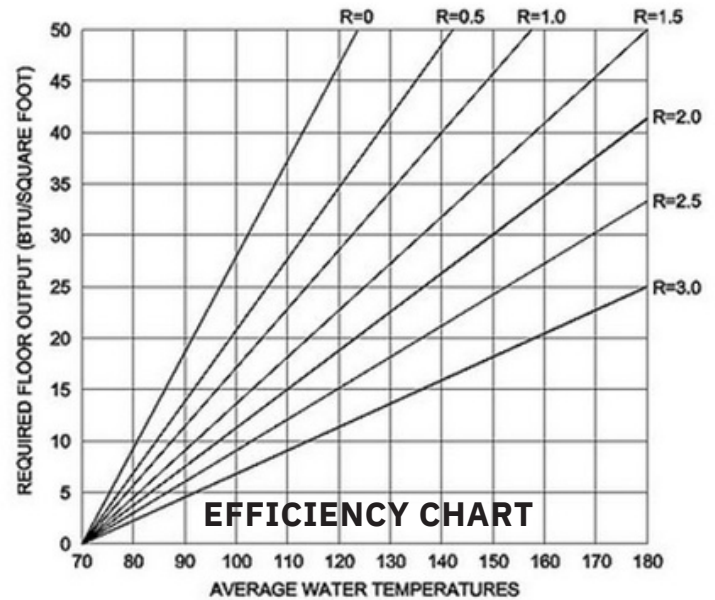
HOW TO USE THE PERFORMANCE CHART

Most manufacturers publish this data or it is available in this format from third-party engineers and manufacturers. The chart demonstrates the supply water temperature required to meet a given heat loss (BTU/Sq/Ft.) with a certain finished floor assembly resistance (R-Value). A low R-value of $R=.05$ would be tile, while a carpet with a carpet pad might be $R=2.5$. So for example, start at 20 BTU/Sq/Ft. on the X axis, go over to $R=1$ (hardwood) and go down and it will read about 105F.

PROJECT SHOP DRAWINGS



Thermalboard Performance



STRAIGHT: TBE-S1
VARIABLE: TBE-T1
COMBO: TBE-C1

This Thermalboard project shall be provided detailed project specific CAD drawings and schedules upon acceptance. System shall be installed as described in the current edition of the Thermalboard Installation Manual.