THERMALBOARD™ EPS

THERMALBOARD EPS SUBMITTAL SHEET

PATENTS PENDING

THERMALBOARD EPS

ECONOMICAL & SUSTAINABLE RADIANT HEAT PANEL SYSTEM

JOB:

DESIGNER:

CONTACT:

Thermalboard EPS is an insulated modular radiant panel system. The substrate is constructed from 92% pre-consumer recycled content and meets LEED® v4 Criteria – with zero added formaldehyde and certified grade MR30 moisture resistance. The panels are laminated with aluminum sheeting across the surface for maxiumum conductivity and efficiency. A layer of EPS foam is adhered below the substrate to provide insulation & sound dampening qualities – directing heat upwards rather than sinking into the subfloor. Thermalboard EPS is designed for both new construction and remodeling over a sub-floor or cement. Panels are attached to the subfloor by means of construction adhesive combined with screws, or cross stapling as recommended in the Installation Manual. The system includes straight and end combo panels laid out and installed in a pattern. The pattern creates the pathway into which 3/8” ASTM F 876-877 PEX tubing is placed.

TECHNICAL SPECIFICATIONS

Substrate: High Density MDF. 92% Pre-Consumer Recycled Content. Meets Grade MR30 Moisture Resistance.	**Certifications:** No Added Formaldehyde (NAF). LEED® v4 Low Emitting Materials Credit Support
Nominal Dimensions: 16” x 48” x 1”	**Weight:** 2.6 lbs / sq. ft. 13.7 lbs / board
R Value: 2.25	**Typical Board Mix:** 62% Straight. 38% Combos.
Surface: .003 Aluminum Laminate	**Pallet Size:** 4’x4’x38” Full.
PEX: ⅜” Nominal	**Pallet Capacity:** 96 Boards per Full Pallet.
Groove Depth: ½”	**Packaging:** Corner Protected. Shrink Wrapped.
PEX Tube Spacing: 8” OC	**Green Building:** LEED® v4 Low Emitting Materials Credit Support

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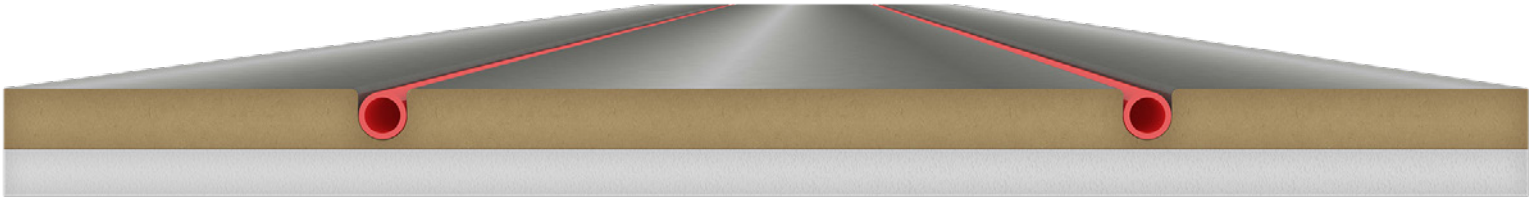
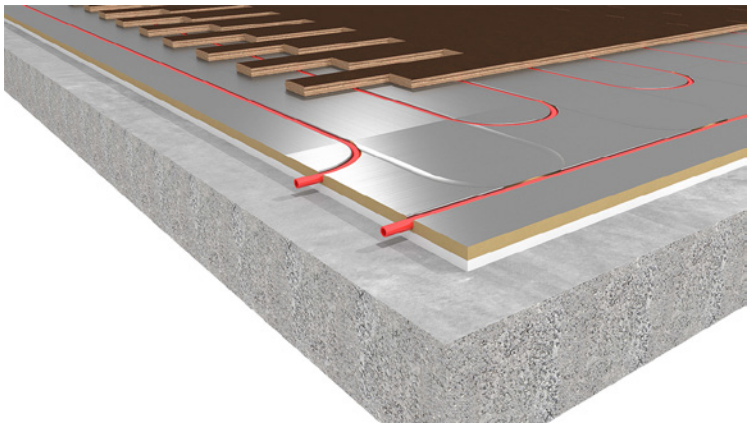
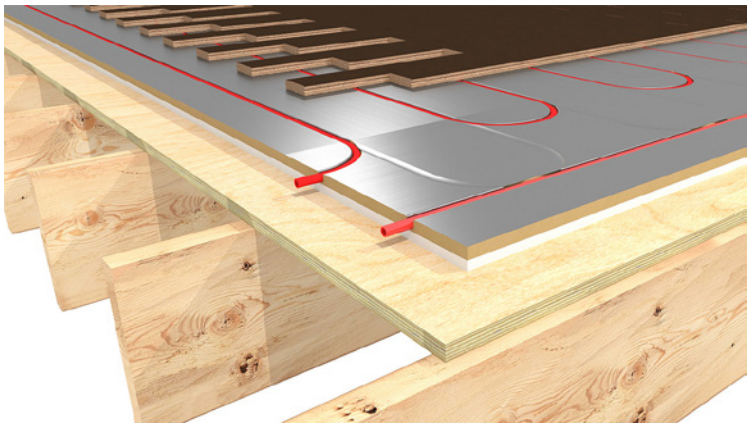
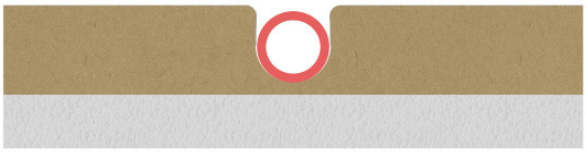




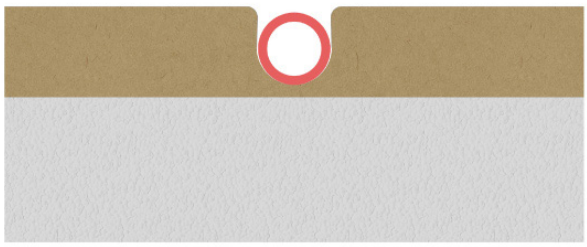
THERMALBOARD EPS OVER CONCRETE



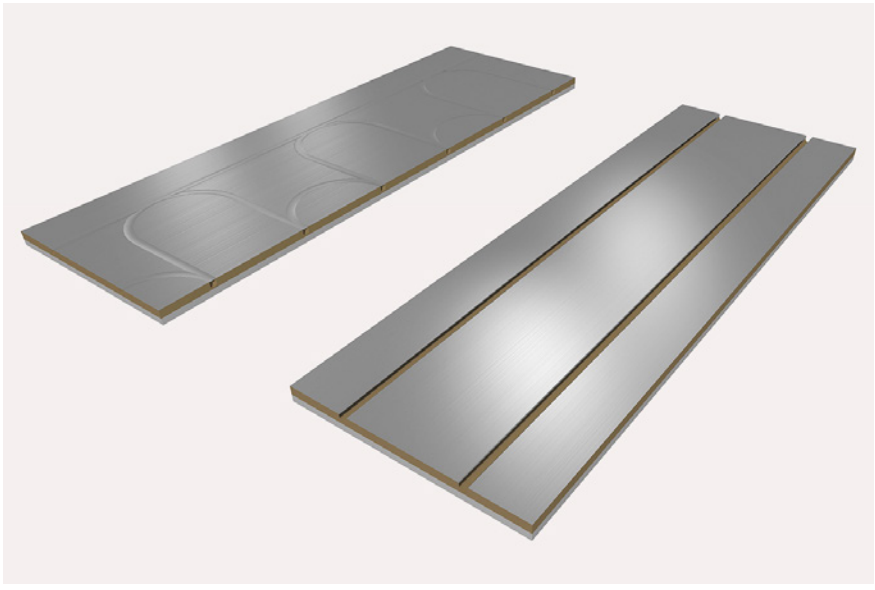
THERMALBOARD EPS OVER SUBFLOOR



THERMALBOARD EPS 1” THICK



THERMALBOARD EPS 1.625” THICK

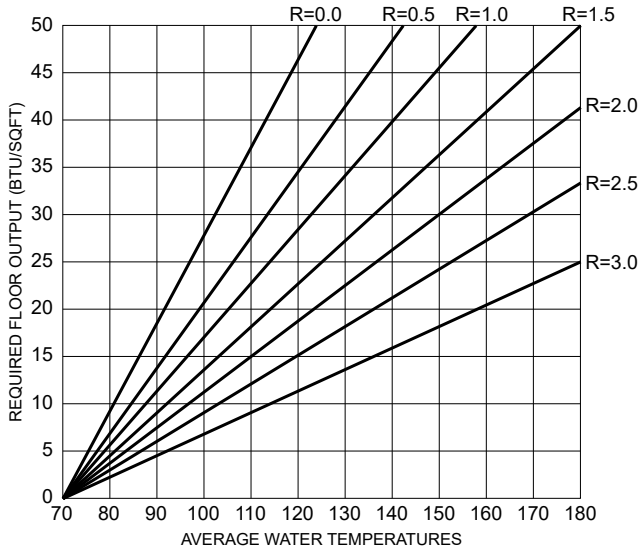


SPECIAL ORDER THICKNESS AVAILABLE

16” x 48” x .625”	16” x 48” x 1”	16” x 48” x 1.125”
16” x 48” x 1.375”	16” x 48” x 1.625”	16” x 48” x 2.625”

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.



DESIGN & LAYOUT CAD DRAWINGS

EFFICIENCY CHART

STRAIGHT: TBEPS0375-S2
COMBO: TBEPS035-C2

This Thermalboard EPS 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.