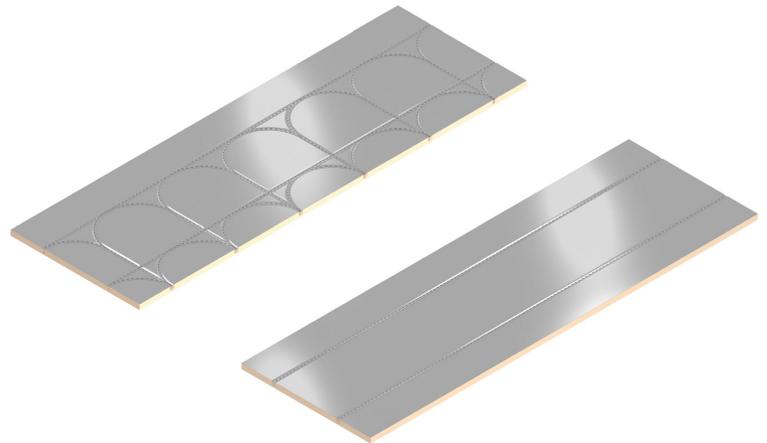


**THERMALBOARD PANELS**

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



**Board Construction:** Renewable Dense Fiber. Sustainable Post Harvest Rice Straw MDF.

**Nominal Dimensions:** 16" x 48"

**Thickness:** 5/8"

**Surface:** .003 Aluminum Laminate

**PEX:** 3/8" Nominal

**Groove Depth:** 1/2"

**PEX Tube Spacing:** 8" OC

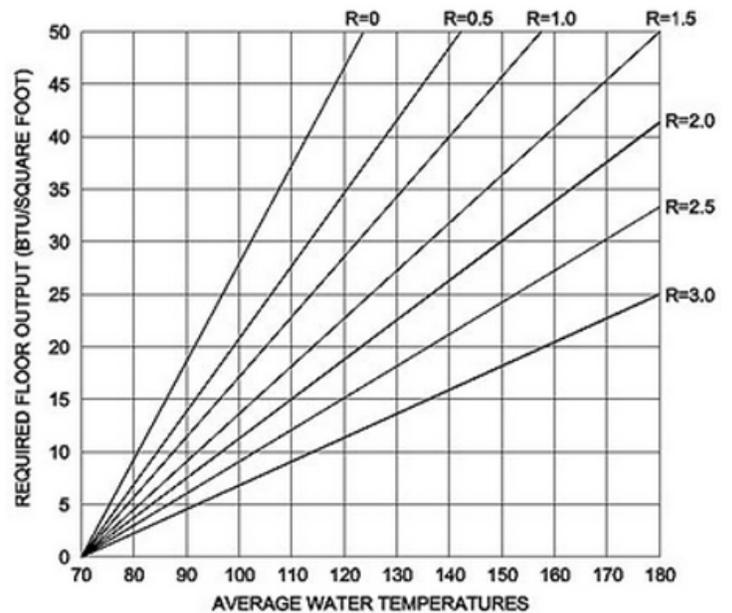
**Weight:** 2.2 lb. /sq. ft. 18lb/ board

**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



**HOW TO USE THE PERFORMANCE CHART**

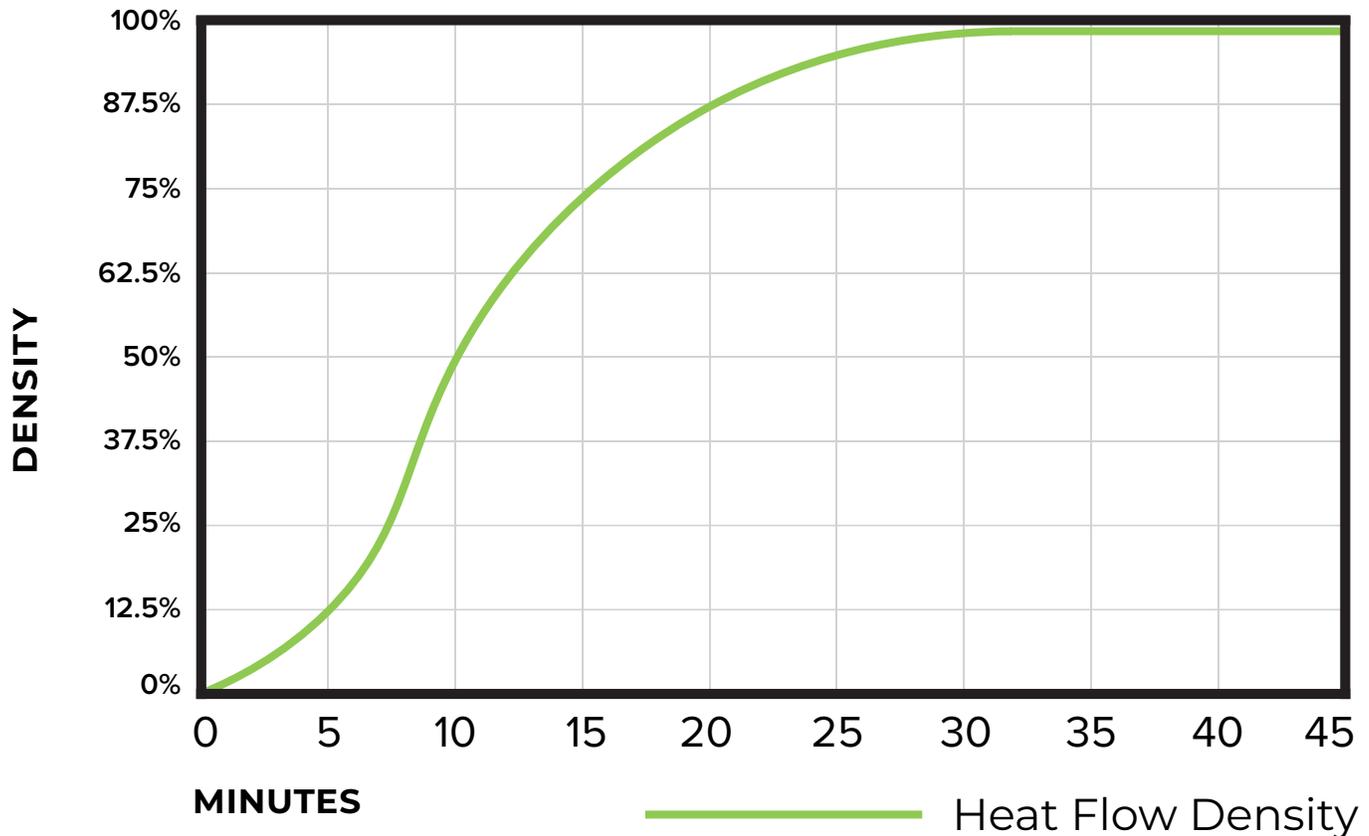
Most manufacturers publish this data or it is available in this format from third-party engineers and manufacturers. The chart demonstrates the supply water temperature required to meet a given heat loss (BTU/Sq/Ft.) with a certain finished floor assembly resistance (R-Value). A low R-value of R=.05 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.

**RICE STRAW FIBERBOARD SPECS**

	<i>Imperial</i>	<i>Metric</i>
<b>Density ( &lt; 0.551")</b>	44.0–52.0 lbs/ft <sup>3</sup>	705–833 Kg/m <sup>3</sup>
<b>Density ( &gt; 0.551")</b>	42.0–50.0 lbs/ft <sup>3</sup>	673–800 Kg/m <sup>3</sup>
<b>Moisture Content:</b>	6–9%	6–9%
<b>Thickness Tolerance:</b>	± 0.005"	± 0.125"mm
<b>Modulus of Rupture:</b>	4,500 psi	31.0 N/mm <sup>2</sup>
<b>Modulus of Elasticity:</b>	450,000 psi	0.8 N/mm <sup>2</sup>
<b>Internal Band:</b>	120 psi	0.8 N/mm <sup>2</sup>
<b>Linear Expansion Limit:</b>	≤0.33%	≤0.33%
<b>Face Screw Hold &gt; .375" (9.5mm)</b>	270 lbs	1,201 N



**THERMALBOARD RESPONSE TIME**



Thermalboard is a highly efficient, fast responding radiant heat panel system. The system was designed to supply lower water temperatures – resulting in lower operating costs to the owner. Our fast response system allows for rapid heating up and cooling down for easy control and comfort.