

SunBoard Type	SunBoard Description	Installation Floor Section - Tested	Test Parameters	Average Water Temp. ( F )	Room Temp. ( F )	T over Channel (F)	T between Channels (F)	T change across Top Surface (F)	Average T surface (F)	Floor Output (BTU/hr-sq-ft)	Notes
1/2" x 3/4" <b>Silver</b>	1/2" Pex tube , 3/4" Thick Plywood, Thick Aluminum Layer + Wax Paper thru Channels	1/2" x 3/4" Silver SunBoard , 3/4" Hardwood Flooring, sanded	R-5 Insulation underneath/sides of tested board	115	70	85.3	82.2	3.1	82.8	25.6	<b>See Note # 1</b>
1/2" x 3/4" <b>Graphite</b>	1/2" Pex tube , 3/4" Thick Plywood, Graphite Layer thru Channels	1/2" x 3/4" Graphite SunBoard , 3/4" Hardwood Flooring, Poly-Urethane Coated	R-5 Insulation underneath/sides of tested board	115	70	87.6	83.3	4.3	84.2	28.3	<b>See Note # 2</b>
1/2" x 3/4" <b>Gold</b>	1/2" Pex tube , 3/4" Thick Plywood, Thinner Aluminum Layer + Wax Paper SLIT thru Channels	1/2" x 3/4" Gold SunBoard , 3/4" Hardwood Flooring, sanded	R-5 Insulation underneath/sides of tested board	115	70	83.5	78.4	5.1	79.4	18.8	<b>See Note # 3 &amp; # 4</b>
1/2" x 1" <b>Foam</b>	1/2" Pex tube , 1" Thick Foam, Graphite Layer thru Channels	Click Floating Floor ( Laminiate )	R-5 Insulation underneath/sides of tested board	115	70	92.7	86.2	6.5	87.5	35.0	<b>See Note # 5</b>
<b>Notes:</b>											
1. In most cases, Heat Loss calculations will not exceed 25 Btu/hr-sq-ft (For example, 2nd floor Master Bedroom with large area of windows/skylight ). Typical Hardwood Flooring will require running Average water temperature of 115 deg F to provide this BTU Output											
2. The Graphite board has the ability to heat surfaces FASTER as well as provide Higher BTU Output, such as 28 BTU/hr-sq-ft. It can provide the 25 BTU/hr-sq-ft at a LOWER water temperature											
3. The 1/2" Gold SunBoard panel can provide higher BTU Output by increasing the Average water temperature. The Silver and Graphite SunBoard panels can provide Higher BTU output at a lower temperature											
4. The 3/8" Gold SunBoard panel ( 5/8" Thick, Particle board ) works similarly to the 1/2" Gold SunBoard related to BTU Output and Temperature distribution across Top Flooring surfaces											
5. The Foam board, with Graphite layer, has the ability to heat surfaces FASTER as well as provide Highest Average BTU Output, such as 35 BTU/hr-sq-ft. It can provide the 25 BTU/hr-sq-ft at a LOWER water temperature. This also can be achieved as it is an insulation board and minimizes downward heatloss											

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