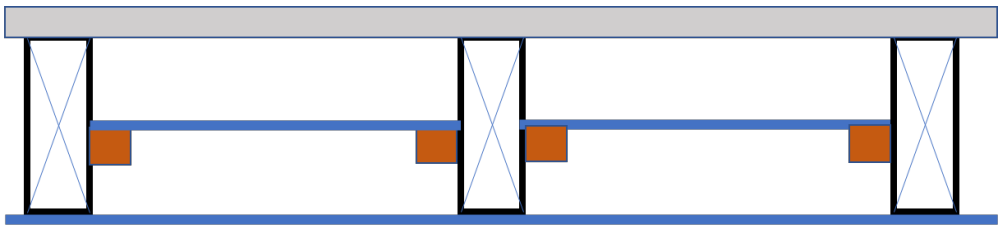
Name	15. FLOOR: Radiant Floor on Wood Joists w/ two 4.75” Air Gaps
Date	04-20-2021
Section Schematic	

Layers/R-values

Layer Name	*R-value of Assembly*	*R-value of Quattro Application*	*Notes*
QUATTRO Ultra-Thin Reflective Insulation	1.63	1.63	
4.75” Air Gap	9.318	9.318	(2) 3.5 Air Space @ 50/30 Horiz. Down + 5.5 Air Space @ 50/30 Horiz. Down / 2 ((9.60+8.17)/2+(10.61+8.89)/2)/2
QUATTRO Ultra-Thin Reflective Insulation	1.63	1.63	
4.75” Air Gap	9.318	9.318	(2) 3.5 Air Space @ 50/30 Horiz. Down + 5.5 Air Space @ 50/30 Horiz. Down / 2 ((9.60+8.17)/2+(10.61+8.89)/2)/2
Radiant Floor			
Total	**21.63**	**21.63**	

R-Value of Quattro Application	21.63 [h.ft².F /Btu]
Notes/ Reference	• Begin at one end of the house. Attach furring strips halfway up the sides of the wood joists. • Insert the first course of QUATTRO half way up into the joist cavity and staple (at approximately 3” to 4” intervals) the edge of the product to the furring strip. The goal is to split the joist cavity into two approximately equal enclosed 4.75” air spaces.

	• Continue with the second course of product at one end of a joist cavity (after the first course has been installed) and secure the product “end” with staples to the sub-floor or band board. Proceed down the joists by stapling each edge to the face of each joist. Staple the product at intervals of approximately 3” to 4”. Enclose the entire joist run(s). • Seal seams with the aluminum adhesive tape supplied by Aluthermo/Smartech to create a vapor/moisture barrier. • Repeat for each joist that contains the Radiant Floor System.