

Radiant Floor Panel

CONTRACTOR SPECIFICATION SHEET — REV 1.0

DIMENSIONS & MATERIALS		HEATING & PERFORMANCE	
Panel sizes	24×48" (2×4 ft) 48×96" (4×8 ft)	Tubing	½" PEX-A / PEX-B
Thickness	1-1/8" (28.6 mm)	Spacing	12" on-center
Edge profile	Tongue & Groove (T&G)	Output	30–40 BTU/hr/ft²
Structural core	MR30 HDF (moisture resistant)	R-value (panel)	R-0.75
Weight	24×48": ~18 lbs 48×96": ~36 lbs	Assembly R-value	R-2.5 – 4.0 (finish-dependent)
		Live load rating	40 psf
		IIC (impact)	"e 52

CROSS-SECTION — PANEL ASSEMBLY

	\$` Surface Finish Customer-selected (8 options)
\$a Gel-Cushion Layer	\$a Gel-Cushion Layer Thermal buffer + comfort underlay
\$b PEX-A/B Tubing	\$b PEX-A/B Tubing ½" tubing, 12" OC, heat distribution
\$c MR30 HDF Core	\$c MR30 HDF Core Structural base, T&G edge, 40 psf rated

Total panel thickness: 1-1/8" (28.6 mm)

AVAILABLE FINISHES (8 OPTIONS)

Marble	Golden Oak	Norwegian Maple	English Walnut
Provincial Oak	Brazilian Pecan	Colonial Cherry	Raw Pine

ABBREVIATED INSTALLATION SEQUENCE

1 Acclimate panels Store flat in conditioned space "e48 hrs before install. Target 60–80°F, "d50% RH.	2 Prep subfloor Clean, dry, flat to 3/16" over 10 ft. Min ¾" OSB or plywood, no deflection.
3 Lay T&G staggered Start from straightest wall. Stagger end joints "e18" between rows. Tap seams tight.	4 Fasten 6"/8" OC Field: 8" OC. Edges/ends: 6" OC. Use 2" ring-shank or screw nails into joists.
5 Pressure test PEX Cap loop, pressurize to 100 psi with nitrogen or water. Hold 30 min before topping.	6 Connect manifold PEX-A/B to zone manifold. Purge air. Commission at 120°F supply max per zone.

Request a project quote: thermaslab.com/#contact

ThermaSlab Technologies, Inc. · All specifications subject to change without notice. Verify local code compliance. Not for structural design without engineering review. Rev 1.0 · August 2026