



Notes:
Some details such as supporting beams not shown for clarity.

Performance is a function of radiant surface temperature, wind, humidity and outdoor temperature plus occupant activity and clothing.

To enhance an outdoor environment with a radiant ceiling enclose the space or prevent wind with hard and soft landscaping materials and strategies.

Radiant panel must be constructed of materials suitable for exterior use and applications such as humidity from hot tubs.

Radiant panel materials must be able to accommodate min. 180 deg F fluid temperatures. Actual surface temperature is a function of the controls and weather conditions at time of occupant use.

Radiant panel must be constructed to accommodate expansion and contraction of piping and building assembly.

Pex-Al-Pex is the recommended piping material. Use heat transfer plates equal to Thermofin by Radiant Engineering.

Metal soffit materials of a darker color and rougher (textured) surface will make for better heat transfer. Do not use shiny smooth light colored surfaces.

Sloped deck with water proof membrane, exterior grade rigid insulation

Heated Radiant Soffit

Wind Screen
At the very least a wind screen should extend downwards from the ceiling maintaining 6' 8" for head clearance. The better the the wind screen the better the outdoor radiant experience.

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Radiant Based HVAC Systems

Three Season Outdoor Patio Heater Using Radiant Ceiling Panels
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