

## Model PRF

# PANEL RADIATOR SPECIFICATIONS

### Specifications

Provide steel panel radiator elements of lengths and in locations as indicated, and of capacities, style, and having accessories as scheduled. The wall hung heating panel radiation shall be of one-piece all-welded steel construction, consisting of flattened water tubes welded to headers at each end. The radiator may include an optional integral heavy gauge all-welded perforated top grille when specified (for curved radiators the grille is omitted). PRF models to have steel corrugated fins welded to the rear side of the water tubes to increase the convective output of the unit. There shall be no less than 32 fins per foot. Fins shall start within 1" of the headers, and shall be spot-welded three times per tube.

All radiator header pipes are square 0.109" minimum wall thickness. The headers shall include all necessary inlet, outlet and vent connections as required. Standard connection sizes are 1/2" NPT tapered thread for supply and return piping, and 1/8" for the vent connection. Internal baffling is provided where required for proper water flow. Option 29, 3/4" NPT connections are available at an additional cost, when specified.

The radiant heating panels shall be available in lengths from 2'-0" to 20'-0" in two inch even increments without the need for splicing. The panel radiation shall be capable of being mounted to typical stud wall construction without additional blocking or strapping. Appropriate wall mounting brackets shall be provided with the panel radiation. Optional floor mounting pedestal brackets shall be provided at an additional cost when specified. Panel radiation expansion shall not exceed 1/64" per foot of radiation at 215°F. The installer shall provide adequate expansion compensation for each radiator.

### Pressure Ratings:

Pressure ratings for the panel radiators shall be as follows:

LOW (Standard)- .048" minimum wall thickness. Working pressure 56-PSI maximum, Test Pressure-74 PSI maximum

**OR**

MEDIUM (Optional)- .058" minimum wall thickness. Working pressure 85-PSI maximum, Test Pressure-110 PSI maximum

**OR**

HIGH (Optional)- .078" minimum wall thickness. Working pressure 128-PSI maximum, Test Pressure 184 PSI maximum

### Finishes:

The panel radiation shall be cleaned and phosphatized in preparation for the powder coat finish. The radiation is then finish painted with a gloss powder coat finish, for a total paint thickness of 2-3 mils (0.002" - 0.003"). The color shall be selected from Sterling's standard commercial colors. Optional custom colors shall be available at and additional cost.

### Warranty:

A 5-Year Limited Warranty covers all Sterling panel radiators.

### Options:

Optional floor mounting post brackets are available at an additional cost with the panel radiators (up to 10 tubes high) when specified.

Ribbed pipe cover trims (up to 10 tubes high), finished to match the radiators shall be provided with the radiation when specified.

Optional integral heavy gauge all-welded perforated top grille is available at an additional cost, when specified.



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