

Curved Wall Applications

PR and PRF panel radiators can be curved for either convex or concave walls. There are a variety of radii, lengths, and deflection criteria required to specify the quantity and types of radiators needed to meet the curvature. Follow the diagrams below for each curve. Contact your sales representative for detailed curved radiator submittal sheets.

FIELD CURVED & SEGMENTED RADIATORS

Field curved panel radiators are specially made for conditions where larger curvatures are found: auditoriums, malls, lobbies, cafeterias, and museums, for example. They are field installed along the wall or window mullions with a simple bracket system and a piping arrangement to match each project. This is a very cost effective way to heat the perimeter of a curved building.



Minimum radius is 15 feet.

Minimum radiator length is 15 feet long.

The longer the length and larger the radius, the better.

Only single header panel radiators can be field curved; dual header panel radiators cannot be curved.

A single radiator can be curved to a maximum angle of 90°.

FACTORY CURVED & SEGMENTED RADIATORS

Factory curved & segmented panel radiators are used for smaller curvatures. Applications such as bay windows or very tight curves are found in fine homes, mansions, historic renovations, towers, and theatres, for example. These radiators are specially manufactured by highly skilled craftsmen, and may be easily installed along the wall with a simple bracket system and a piping arrangement to match each project. These beautiful radiators make an eye-catching addition to any heating project.



The maximum angle which can be segmented is 135°.

Dual panel radiators cannot be segmented.

Minimum radius is 5 feet on non-finned units.

Minimum radius is 10 feet on finned units.

Maximum radiator length is:

20 ft. (non-finned radiators)

16 ft. (finned radiators)

The longer the length and larger the radius, the better.

The maximum amount of deflection (the overall depth from the front to the rear of the panel assembly) is 24".

MOUNTING SYSTEMS

Wall mounting is the easiest way to install curved or segmented panel radiators. These radiators are specially made with the proper bracketing required for a smooth-looking installation. It is recommended that wall blocking and lockdown brackets for curved radiators be used to ensure secure mounting. Segmented panel radiators are easily wall mounted with standard brackets, included with each order.

Floor mounting along a curved wall is an alternative way to install the panel radiators. Floor mount brackets are specially manufactured to match the radiators in both quality workmanship and color. Floor mounting is a cost effective way to install radiators along curved glass walls or other applications where wall mounting is not an option. Also note that for field or factory curved PR units come with mounting clips welded at intervals along the back of the unit (no continuous mounting), so the installing contractor must put a solid backing in the wall where the mounting brackets need to go to line up with the clips welded to the radiator. The more experienced contractors install a continuous sheet metal strip screwed to the wall studs before the sheet rock is applied for this purpose.

The PRF radiators have the fins along the back, so the wall brackets can be placed on the studs and attach to the fins.

For further details on these specialty radiators, contact your local sales representative today.

See related Factory and Field Curved Submittal Sheets for more information.