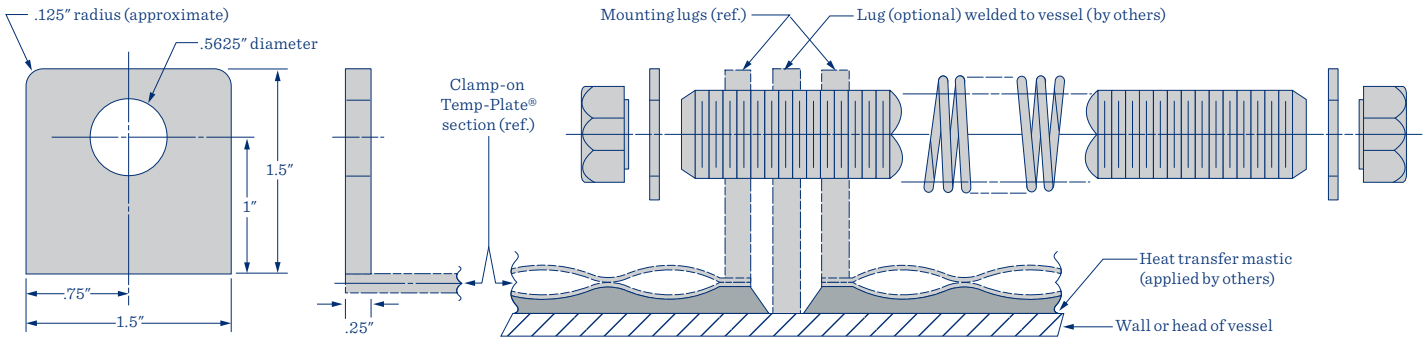
PAUL MUELLER COMPANY

Temp-Plate® Installation Guide



Typical Installation

Our Temp-Plate® double-embossed clamp-on heat transfer surface is recommended for maintaining temperatures. Approximately .125” thick heat transfer mastic film must be applied between the clamp-on and equipment wall for maximum heat transfer with clamp-on sections. As a standard, Paul Mueller Company will supply clamp-on panels with heat transfer mastic applied to the vessel contact side. Due to temperature constraints, there may be instances where mastic application is required to be done at the installation site, in which loose buckets can also be supplied by Paul Mueller Company. One gallon of heat transfer mastic will cover about 12 to 14 ft^2 of surface when used with Mueller® double-embossed clamp-on sections. Temp-Plate mounting lugs will be the same material as the Temp-Plate panel itself. The tank lugs that are required to be welded to the vessel can be offered in a variety of materials so that there is no welding of dissimilar metals.

Installation Guidelines for Factory Pre-Applied Mastic

1. Leaving the protective plastic cover on the Temp-Plate panels, position the heat transfer panel and mark the locations for installation of the tank mounting lugs. These are shipped loose with the Temp-Plate sections. Refer to the sketch above for the typical arrangement. Allow approximately $^1/_2$” between the tank lug and the lug on the Temp-Plate panels. This space will be taken up by the spring-loaded bolts used in the final steps.
2. Remove the Temp-Plate section. Weld the tank mounting lugs in position.
3. Remove the protective plastic cover from the panels.
4. Position the Temp-Plate section as previously located. Excess mastic will be allowed to flow out of the perimeter.
5. The spring-loaded bolt assemblies are used to allow for thermal expansion of the Temp-Plate sections. Place the spring on the outside of the Temp-Plate lug and tighten the nuts to near full compression.As the Temp-Plate section expands, the spring will relax and still maintain the proper fit. Refer to the sketch above.
6. The installation of the Temp-Plate heat transfer section is now complete. The plumbing connections are to be made next, using proper configurations to ensure efficient operation.