

Taking 50400 pounds as the lowest tensile strength of any plate and diameter of boiler 42 inches, of $\frac{1}{4}$ inch plate:

50000 lbs. tensile strength.

$$\begin{array}{r} 1 \\ \hline 6)50000 \end{array}$$

8400 one-sixth of plate.
.25 thickness.

$$\begin{array}{r} 42000 \\ \text{diam. } 16800 \\ 2)42 \end{array}$$

21)2100.00(100 lbs. pressure per square inch for single riveted boiler and 120 lbs. for double riveted boiler.

$$\begin{array}{r} 21 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline -0 \\ \hline \end{array}$$

Taking 60000 lbs. tensile strength and 42" diameter $\frac{1}{4}$ of an inch plate:

$$\begin{array}{r} 6)60000 \\ \hline 10000 \\ .25 \end{array}$$

21)2500.00(119 lbs. for single riveted and 142.8 lbs. double riveted boiler.

$$\begin{array}{r} 21 \\ \hline 40 \\ \hline 21 \\ \hline 190 \\ \hline 189 \end{array}$$