

Boiler Calculations.

Mr. Pickensville Tenn 5/8 No 144
 Mr. Geo Clark C 809

Plate $\frac{8.625 - 1.3125}{8.625} = 84.78\%$

Rivet $\frac{1.3529 \times 8.75 \times 85}{8.625 \times 1.25} = 93.5\%$

Shell $\frac{21 \times 18 \times 84.78 \times 28.5}{27 \times 186} = 182 \text{ lbs.}$

Steam Space $\frac{175 \times 15\frac{1}{2}^2}{21\frac{1}{8}^2 + 17^2} = \frac{175 \times 19.5^2}{367.63} = 181 \text{ lbs.}$

Dr. Stays $\frac{6.657 \times 10000}{21 \times 17} = 186.5 \text{ lbs.}$

Surround $50 \left(\frac{300 \times 68.5 - 32.875}{47.875} \right) = \frac{50 \times 170.275}{47.875} = 181 \text{ lbs.}$

Dr. tub plate $\frac{1.57 \times 1750 \times 12}{3.75 \times 26} = 234 \text{ lbs.} \quad \left| \quad \frac{140 \times 12^2}{9.28^2} = 234 \text{ lbs.} \right.$

Front $\frac{140 \times 15.5^2}{13.5^2} = 185 \text{ lbs.}$

Back (Bottom) $\frac{125 \times 14^2}{14\frac{1}{4}^2 + 9\frac{1}{4}^2} = 183 \text{ lbs.} \quad \left| \quad \frac{140 \times 14.5^2}{15\frac{1}{8}^2 + 9\frac{1}{4}^2} = 180 \text{ lbs.} \right.$

Ann. Pass. $\frac{135 \times 11^2}{9\frac{3}{4}^2 + 9\frac{1}{4}^2} = \frac{135 \times 11^2}{90.25} = 181 \text{ lbs.}$

Screen Stays $\frac{2.03 \times 9000}{9.75 \times 9.25} = 203 \text{ lbs.} \quad \left| \quad \frac{2.3576 \times 9000}{9.25 \times 12.5} = 180 \text{ lbs.} \right.$



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