

Mult. Steel Donkey Boiler by Messrs Riley Bros.
for Messrs John G. Kincaid & Co. No. 256.

50 lbs. working pressure.

Plate % $\frac{2.8125 - .8125}{2.8125} \times 100 = 71.1$

Rivet % $\frac{2 \times .52 \times .85}{2.8125 \times .375} = 84$

Shell $\frac{18.5 \times 71.1 (6-2)}{54} = 92 \text{ lbs.}$

Furnace $\frac{89600 \times 375^2}{425 \times 26} = 115 \text{ lbs.}$

" $\frac{8000 \times 3}{26 \times 8} = 115 \text{ lbs.}$

Comen. br. $\frac{100 \times 4.5^2}{8.25^2} = 83 \text{ lbs.}$

- Stay $\frac{99 \times 6000}{8.25^2} = 84 \text{ lbs.}$

" - top $\frac{120 \times 4.5^2}{9^2} = 83 \text{ lbs.}$

" - Stays $\frac{99 \times 6000}{9 \times 6} = 110 \text{ lbs.}$

Girders $\frac{6600 \times 3.5^2 \times 1.25}{(13-4) 9 \times 13} = 95 \text{ lbs.}$

Ends top $\frac{185 \times 9.5^2}{14.25^2} = 82 \text{ lbs.}$

" Stays $\frac{2.06 \times 7500}{14.25 \times 11} = 98 \text{ lbs.}$

Front tube $\frac{\frac{185+120}{2} \times 9.5^2}{11^2} = 113 \text{ lbs.}$

Back " $\frac{140 \times 8^2}{7^2} = 183 \text{ lbs.}$

Stay tubes $\frac{7500 (4.43-2.76)}{12 \times 4 - 11} = 141 \text{ lbs.}$



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