

Mues: Steel Boiler by Mess. Armstrong 1893
for Mess^{rs} The Langemount Shipyard Co. N.Y.

120 lbs "working pressure"

Plate 7. $\frac{4 \times 125 - 8125}{4 \times 125} \times 100 = 80\%$

Front tube $\frac{140 \times (10 + \frac{2}{2})^2}{14.5^2} = 140 \text{ lbs.}$

Rivet 7. $\frac{3 \times 8.2 \times 85 \times 1.75}{4 \times 125 - 8125} = 81$

Back " $\frac{140 \times 10^2}{10.6^2} = 125 \text{ lbs.}$

Shell $\frac{20 \times \frac{80}{114} (11 - 2)}{114} = 116 \text{ lbs.}$

Stay tubes $\frac{7500 (7.64 - 5.41)}{11 \times 13.6 - 18} = 127$

Furnace $\frac{89600 \times 5625^2}{6 \times 34.56} = 134 \text{ lbs.}$

Boiler Back $\frac{135 \times (10 + \frac{10}{2})^2}{13^2} = 180 \text{ lbs.}$

" $\frac{8000 \times 9}{34.56 \times 16} = 130 \text{ lbs.}$

" Stays $\frac{1.48 \times 8000}{10.5 \times 8} = 140 \text{ lbs.}$

Combustion $\frac{120 \times 8^2}{8^2} = 120 \text{ lbs.}$

Combustion Bottom $\frac{8000 \times .5}{36} = 111 \text{ lbs.}$

" Stays $\frac{1.23 \times \frac{8000}{8^2}}{8^2} = 115 \text{ lbs.}$

Girders $\frac{9900 \times 6^2 \times 1.25}{(24 - 8)^2 \times 24} = 124 \text{ lbs.}$

Ends top $\frac{175 \times (9 + \frac{2}{2})^2}{13.5^2} = 175 \text{ lbs.}$

" Stays $\frac{2.4 \times 9000}{13.5^2} = 180 \text{ lbs.}$



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