

Quint^r Steel Boiler for Mrs. Fullerton 168" H. 153 1/2"
by men Ross & Duncan

120 lbs working pressure.

plate 90 $\frac{6 \cdot 9375}{6} \times 100 = 84.5$

End stop ~~27~~ $\frac{185 \times 13^2}{240} = 131 \text{ lb.}$

Rivet 90 $\frac{4}{6} \times 69 \times 1.45 \times 85 = \frac{842}{64.9}$

Stay $\frac{3.36 \times 10000}{16 \times 15} = 139 \text{ lb.}$

Shell $\frac{21 \times 84.2(13-2)}{156} = 125 \text{ lb.}$

Front tube $\frac{140 \times (11 + \frac{8}{2})^2}{14.5^2} = 150 \text{ lb.}$

Furnace $\frac{10 \times 500 \times .64^2}{44 \times 40} = 134 \text{ lb.}$

Back $\frac{140 \times 10^2}{10.1^2} = 138 \text{ lb.}$

Combustible $\frac{120 \times 8^2}{82} = 120 \text{ lb.}$

Stay tubes $\frac{7500 \times 1.86}{9.5 \times 14 - 28.8} = 134 \text{ lb.}$

Stay $\frac{99 \times 8000}{84} = 123 \text{ lb.}$

Boiler Back $\frac{135 \times (10 + \frac{8}{2})^2}{116.5} = 222 \text{ lb.}$

Grades $\frac{9000 \times 6 \frac{1}{2} \times 1 \frac{1}{2}}{(29-8) 8 \times 59} = 118 \text{ lb.}$

Stay $\frac{1.76 \times 8000}{10.5 \times 9.5} = 141 \text{ lb.}$

W.R.H.
- 28 Sept 1894

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