

Steel Boiler by Messrs J. Soudron & Co^{ys} (L^{td})

for Messrs Richardson Duck & Co^{ys} N^o. 481.

Working press = 90 lbs per sq

Plate $\frac{4.5 - .9375}{4.5} \times 100 = 79\%$ Com. Ch. Quiders $\frac{6600 \times 5.5^2 \times 1.125}{(18-75)9.75 \times 18} = 121 \text{ lbs}$

Rivet $\frac{4 \times .69 \times 85}{4.5 \times 3.31} = 97\%$ Ends Top $\frac{185 \times 11^2}{15.75^2} = 90 \text{ lbs}$

Shell $\frac{18.5 \times 49(8.5-2)}{102} = 92 \text{ lbs}$ " Stays $\frac{6000 \times 3.14}{15.75 \times 11.5} = 104 \text{ lbs}$

Furnace $\frac{89600 \times 4.375^2}{5.75 \times 30} = 99 \text{ lbs}$ Front Tube $\frac{140 \times (9 + \frac{6}{2})^2}{14.75^2} = 92 \text{ lbs}$

" $\frac{8000 \times 7}{30 \times 16} = 116 \text{ lbs}$ Back " $\frac{140 \times 12^2}{14.75^2} = 92 \text{ lbs}$

Com. Ch. $\frac{120 \times 8^2}{92} = 94 \text{ lbs}$ Stay tubes $\frac{7500 \times 2.04}{13.75 \times 11 - 21} = 100 \text{ lbs}$

" " Stays $\frac{1.25 \times 6000}{92} = 91.5 \text{ lbs}$ Back End $\frac{100 \times 9^2}{92} = 100 \text{ lbs}$

" " Top $\frac{120 \times 8.5^2}{9.75^2} = 91 \text{ lbs}$ " " Stays $\frac{148 \times 6000}{10.25 \times 9} = 96 \text{ lbs}$

" " " Stays $\frac{1.48 \times 6000}{9.75^2} = 93 \text{ lbs}$

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