

Shp. 9 1/2 in.

128 x 1/2 threads - depth of thread
for bottom of rivet

Meredith patent Boiler by Riley Bros: of Stockton for
Messrs J. L. Thompson & Sons 1st 317 + 321 vessels

160 lbs working pressure.

Plate 7. $\frac{3.75 - .9375}{3.75} \times 100 = 75$

Back tube $\frac{140 \times 10.5^2}{9.5^2} = 141 \text{ lbs}$

Rivet 9. $\frac{2 \times .69 \times 1.75 \times 16 \times 85}{3.75 \times 11} = 79.6$ Stay tubes $\frac{4500 (7.669 - 5.41)}{(13.375 \times 10.5) - 24} = 146 \text{ lbs}$

Shell $\frac{20 \times 75 (11 - 2)}{84} = 160.4 \text{ lbs}$ Side plates $\frac{175 \times 11^2}{11.5^2} = 160 \text{ lbs}$

Furnace $\frac{8800 \times 3}{60 \times 4} = 110 \text{ lbs}$

- - Stays $\frac{2.76 \times 9000}{17.75 \times 10.5} = 132 \text{ lbs}$

Combs: $\frac{135 \times 9^2}{7.75^2} = 181 \text{ lbs}$

Girders $\frac{9900 \times 7.2 \times 1.25}{(26 - 7.75) 7.875 \times 26} = 162 \text{ lbs}$

" " Stays $\frac{8000 \times 1.23}{7.75^2} = 163 \text{ lbs}$

Furnace $\frac{1000 (12 - 2)}{60} = 166.6 \text{ lbs}$

" " top $\frac{135 \times 9^2}{7.875^2} = 176 \text{ lbs}$

- - - Stays $\frac{8000 \times 1.23}{7.875 \times 7.75} = 160 \text{ lbs}$

Front tube $\frac{150 \times (13 + \frac{13}{2})^2}{18.25^2} = 172 \text{ lbs}$

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