

Donkey Boiler by D Rowan & Son for Hamiltons  
 No 13371

90 lbs working pressure.

Plate No  $\frac{3.6845 - 9345}{3.6845} \times 100 = 445$

End top  $\frac{185 \times 10^2}{14.25^2} = 91 \text{ lbs}$

Rivet No  $\frac{3 \times 69 \times 85}{3.6845 \times 593} = 80$

" Stays  $\frac{208 \times 9000}{14.5 \times 14} = 92 \text{ lbs}$

Shell  $\frac{19.5 \times 44.5 (9.5 - 2)}{114} = 95 \text{ lbs}$  Front tube  $\frac{150 \times (10 \frac{1}{2})^2}{14.125^2} = 168 \text{ lbs}$

Furnace  $\frac{1071200 \times .469}{78 \times 34.25} = 89 \text{ lbs}$  Back tube  $\frac{140 \times 10^2}{11.125^2} = 115 \text{ lbs}$

"  $\frac{50 \{ (300 \times .469) - 48 \}}{34.25} = 91 \text{ lbs}$  Stay Piles  $\frac{4500 \times 1.54}{13.81 \times 8.75 - 24.6} = 120 \text{ lbs}$

Comdr. br.  $\frac{120 \times 4.5^2}{8.5^2} = 93 \text{ lbs}$

Roller Back  $\frac{120 \times (8 + \frac{8}{2})^2}{10.5^2} = 154 \text{ lbs}$

" Stays  $\frac{98 \times 8000}{8.5^2} = 109 \text{ lbs}$

" Stays  $\frac{98 \times 8000}{10.625 \times 4.75} = 96 \text{ lbs}$

Girders  $\frac{9900 \times 5.5^2 \times 1}{(24.85) \times 5 \times 24} = 108 \text{ lbs}$



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