

Mult. Steel Boilers by Messrs. Hudson & Co. Ltd. for
 Messrs J. G. Kneicaid & Co. Ltd. No 251 & 252 vessels. Engines
 Russell's SS, 396 & 397.

80 lbs working pressure.

plate 7. $\frac{3.375 \times .8125 \times 100}{3.375} = 76$

Rivet 7. $\frac{3 \times 82 \times 85}{3.375 \times 469} = 83$

Shell $\frac{18.5 \times 76 (45-2)}{96} = 80 \text{ lbs.}$

Turnace $\frac{89600 \times 4.375^2}{4.625 \times 27.875} = 81 \text{ lbs.}$

" $\frac{8000 \times 4}{27.875 \times 16} = 125 \text{ lbs.}$

Corner br. $\frac{100 \times 8^2}{8.25^2} = 93 \text{ lbs.}$

" Stay $\frac{99 \times 6000}{8.25^2} = 87 \text{ lbs.}$

Girders $\frac{9900 \times 5^2 \times 1}{(24-8) 8.25 \times 24} = 78 \text{ lbs.}$

End stop $\frac{220 \times 10.5^2}{14^2} = 83 \text{ lbs.}$

- Stay $\frac{2.4 \times 4500}{14 \times 14.5} = 80 \text{ lbs.}$

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

Back " $\frac{140 \times 10^2}{12^2 \times 4.5^2} = 86 \text{ lbs.}$

Stay tubes $\frac{4500 (6.49-4.45)}{11.25 \times 11-16} = 144 \text{ lbs.}$

Boiler Back $\frac{185 \times 100 \times 8.5^2}{82 \times 11^2} = 74 \text{ lbs.}$

" Stays $\frac{99 \times 6000}{8.25 \times 9.125} = 80 \text{ lbs.}$

Plate between end Stay $\frac{220 \times 100 \times 10.5^2}{15^2} = 78 \text{ lbs.}$
 1 Screw Stay

" Stay tubes " $\frac{220 \times 120 \times 10^2}{14.5^2} = 80 \text{ lbs.}$

Top row of screw Stay $\frac{1.25 \times 6000}{11.625 \times 8.25} = 77 \text{ lbs.}$
 across Boiler Back.

W.K.H. 23rd July 1916.



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 Foundation

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