

Build Steel main Boiler k's 94 by Rankin & Blackmore  
for Russell 1600 k° 626 vessel. 180 lb<sup>sq</sup> working pressure.

Plate 7.  $\frac{9.6875 - 1345}{9.6875} \times 100 = 85.8$

Rivet 7.  $\frac{5 \times 1.48 \times 1.45 \times 85}{9.6875 \times 1.3125} = 86.8$

Shell  $\frac{22 \times 85.8 (21-2)}{198} = 181 \text{ lb}$

Furnace  $\frac{12.59 (8.5-2)}{44.25} = 185 \text{ lb}$

Comdr. Cwr.  $\frac{135 \times 10^2}{74} = 183 \text{ lb}$

" " Stays  $\frac{1.44 \times 9000}{74} = 215 \text{ lb}$

" " Ribs  $\frac{10660 \times 9.5^2 \times 1.625}{(33.6 - 7.5) 9.5 \times 33.6} = 188 \text{ lb}$

End top  $\frac{185 \times 19^2}{350} = 191 \text{ lb}$

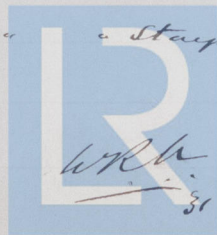
" " Stays  $\frac{6.3 \times 10400}{20.625 \times 16.5} = 192 \text{ lb}$

Front tube  $\frac{140 \times (12 + \frac{9}{2})^2}{13.25^2} = 214 \text{ lb}$

Back -  $\frac{140 \times 12^2}{9.29^2} = 233 \text{ lb}$

Boiler Back  $\frac{135 \times 13^2}{120} = 190 \text{ lb}$

" " Stays  $\frac{2.08 \times 9000}{10.08 \times 9.125} = 204 \text{ lb}$



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