

Mult. Steel Main Boilers No 264 by Ranskin &

Blackmore for Russell 167 N° 569 4, 180th <sup>18.25</sup> Up pressure

plate %  $\frac{9.6845 - 1.341}{9.6845} \times 100 = 85.8$  End top  $\frac{185 \times 18.25}{350} = 97.5$  <sup>187 lb</sup>

Rivet %  $\frac{1.48 \times 5 \times 1.45 \times 85}{9.6845 \times 1.3125} = 86.8$  " Stays  $\frac{6.3 \times 10000}{16.5 \times 20.625} = 184$  lbs.

Shell  $\frac{28.5}{27} \times \frac{21 \times 85.8 (21-2)}{198} = 182$  lbs. Front tube  $\frac{140 \times (12 + \frac{1}{2})^2}{12.25} = 248$  lbs.

Furnace  $\frac{1259 (8.5-2)}{44.25} = 184$  lbs. Back "  $\frac{140 \times 12^2}{9.3^2} = 273$  lbs.

Comb.  $\frac{135 \times 10^2}{74.4} = 181$  lbs. Boiler Back  $\frac{135 \times 13^2}{120} = 190$  lbs.

" Stays Back  $\frac{1.46 \times 8000}{43.5} = 192$  lbs. " Stays  $\frac{2.08 \times 9000}{10.125 \times 9.125} = 203$  lbs.

Girders  $\frac{9900 \times 10^2 \times 1.625}{(33.6-8) 9.25 \times 33.6} = 203$  lbs.

" Stays  $\frac{2.04 \times 9000}{9.25 \times 8} = 245$  lbs.

W.R. in Jan 1906  
4"

© 2019

Lloyd's Register  
Foundation

W798 - 012