

Two steel multitubular main boilers for Messrs the King Jernskedsbyggeri  
No 18 - Furness Westgarths No 123

Plate  $\frac{4.345 - 1.0625}{4.345} \times 100 = 85.5\%$

W.P. = 160 lbs  $\square$ "

Rivets  $\frac{5 \times .889 \times 1.45 \times 85}{4.345 \times 1} = 89.6\%$

Shell  $\frac{20 \times 85.5 (16 - 2)}{144} = 166. \text{ lbs}$

Furnace  $\frac{89600 \times .465^2}{6.4 \times 42} = 195 \text{ lbs}$

" W.P.  $\frac{8800 \times .465}{42} = 160.2 \text{ lbs}$

C.C. back  $\frac{135 \times 10^2}{92} = 166.6 \text{ lbs}$

" " stays  $\frac{2.04 \times 4500}{92} = 191.6 \text{ lbs}$

" " rivets  $\frac{135 \times 9^2}{82} = 141. \text{ lbs}$

" " stays  $\frac{2.04 \times 4500}{82} = 242.5 \text{ lbs}$

" " bottom  $\frac{8800 \times .8125}{43.625} = 163.9 \text{ lbs}$

Girders  $\frac{9900 \times 4^2 \times 1.45}{(24-8) \times 8 \times 24} = 206.8 \text{ lbs}$

Ends (top)  $\frac{185 \times 15^2}{162} = 162.6 \text{ lbs}$

" " stays  $\frac{4.9 \times 9000}{162} = 142.2 \text{ lbs}$

Front tube  $\frac{140 \times (12 + \frac{10}{2})^2}{14.5^2} = 192 \text{ lbs}$

Backs "  $\frac{140 \times 12^2}{9.5^2} = 223 \text{ lbs}$

Stay tubes  $\frac{4500 (8.94 - 6.49)}{(12 \times 9.5) + (9.62 \times 3)} = 214. \text{ lbs}$

Boiler back  $\frac{135 \times 15^2}{9^2} = 211. \text{ lbs}$

" " stays  $\frac{2.04 \times 4500}{9^2} = 191.6 \text{ lbs}$

" " between CC  $\frac{135 \times (12 + \frac{10}{2})^2}{12^2} = 240 \text{ lbs}$

" " " " stays  $\frac{4500 \times 2.04}{10.5 \times 9} = 164.2 \text{ lbs}$

Plate between long stays and screw stays  $\frac{185 + 135}{2} \times 15^2 = 213 \text{ lbs}$

Boiler back bottom  $\frac{185 \times 12^2}{132} = 154.6 \text{ lbs}$

St.  
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