

Merrill Lamp's "606"

Merrill Clark C 830

Boiler Calculations

Plate  $\frac{8.8125 - 1.3125}{8.8125} = 85.16\%$

Rivets  $\frac{1.3529 \times 8.175 \times 85}{8.8125 \times 1.25} = 91.6\%$

Shell  $\frac{21 \times 18 \times 28.5 \times 85.16}{186 \times 27} = 182.6 \text{ th.}$

Sternum Ends  $\frac{175 \times 19\frac{1}{2}}{\frac{1}{2}(21^2 + 17^2)} = 182.8 \text{ th.}$

5<sup>th</sup> Stays  $\frac{6.659 \times 10000}{21 \times 17} = 186.5 \text{ th.}$

Furnaces  $\frac{1160 \times 7.25}{45.75} = 183.8 \text{ th.}$

RK Tube plate  $\frac{140 \times 12^2}{(10)^2} = 202 \text{ th.}$

Front 5<sup>th</sup>  $\frac{140 \times 16\frac{1}{4}^2}{14\frac{1}{4}^2} = 182 \text{ th.}$

RK Bottom plate  $\frac{135 \times 15^2}{\frac{1}{2}(14\frac{1}{2}^2 + 9\frac{1}{2}^2)} = 201.0$   $\left| \frac{(140 \times 15^2)}{\frac{1}{2}(18^2 + 9\frac{1}{2}^2)} = 188 \text{ th.} \right| \frac{(140 \times 15^2)}{\frac{1}{2}(17\frac{1}{2}^2 + 9\frac{1}{2}^2)} = 183 \text{ th.}$

Com - Ch's  $\frac{135 \times 11^2}{9.0^2} = 181 \text{ th.}$   $\left| \frac{135 \times 11.0^2}{\frac{1}{2}(10\frac{3}{8}^2 + 9\frac{1}{2}^2)} = 180.5 \text{ th.} \right|$

5<sup>th</sup> Stays  $\frac{2.03 \times 9000}{9.0 \times 10\frac{3}{8}} = 186 \text{ th.}$   $\left| \frac{2.71 \times 9000}{13.75 \times 9.5} = 184 \text{ th.} \right|$

W.B.  
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Reference .....

*Lloyd's Register of British  
and Foreign Shipping.  
Bute Docks Cardiff.*

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