

2 Steel boilers to be made by Messrs J. Richardson & Sons
for Messrs Swan & Hunters' h^o: 189 vessel

Shell $\frac{20 \times (19.5 - 2) \times 85.29}{183} = 163 \text{ lbs.}$

Stays (steam space) $\frac{5.4 \times 9000}{18.75 \times 16} = 162 \text{ lbs.}$

Screw stays $\frac{1.484 \times 8000}{8.5^2} = 164 \text{ lbs.}$

End plates (steam space) $\frac{185 \times 17.5^2}{18.75^2} = 161 \text{ lbs.}$

Front tube plates $\frac{150 \times 15^2}{14.25^2} = 166 \text{ lbs.}$

Back " " $\frac{1600 \times (4.75 - 3.126) \times 12}{30.5 \times 4.75} = 216 \text{ lbs.}$

Combustion chamber (tubes) $\frac{135 \times 9.5^2}{8.75^2} = 159 \text{ lbs.}$

Back end plates $\frac{135 \times 13.5^2}{12^2} = 170 \text{ lbs.}$

Girders $\frac{9900 \times 7.5^2 \times 1.75}{(29 - 8\frac{1}{4}) \times 8\frac{3}{4} \times 29} = 185 \text{ lbs.}$

Furnaces "horisone" $\frac{1000 \times (9.5 - 2)}{46.25} = 162 \text{ lbs.}$

Steel under 26 tons

J. Stoddart
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