

Main Boilers for Messrs Strand Ship 105
Messrs G Clark & Co. 758 Contract
Plate 70 85.0 Rivets 70 96.6

$$\text{Shell} = \frac{21 \times 12.5 \times 85 \times 28.5}{147 \times 27} = 160.2 \text{ lbs}$$

$$\text{Steam Space} = \frac{17.5 \times 17^2}{\frac{17^{15/16} + 17^{1/4}}{2} (309.65)} = 163.3 \text{ lbs}$$

$$\text{" " Stays} = \frac{5.03 \times 10000}{17.25 \times 17.93} = 162 \text{ lbs}$$

$$\text{Furnaces} = \frac{50 \times (300 \times 71.875 - 69.25)}{14.5} = 164 \text{ lbs}$$

$$\text{Girders} = \frac{9900 \times 8.75^2 \times 1.5}{22 \times 10 \times 32} = 161 \text{ lbs}$$

$$\text{Chambers} = \frac{135 \times 11^2}{10^2} = 165 \text{ lbs} \quad \frac{135 \times 10.5^2}{\frac{10^{1/4}^2 + 87/8^2}{2}} = 162 \text{ lbs}$$

$$\text{Back Bolt} = \frac{135 \times 13^2}{\frac{14^2 + 87/8^2}{2} (137.38)} = 166 \text{ lbs}$$

$$\text{Screwed Stays} = \frac{2.03 \times 9000}{10.25 \times 8.875} = 201 \text{ lbs} \quad \frac{2.35 \times 9000}{10 \times 10} = 211 \text{ lbs}$$

$$\text{" " " " } = \frac{2.35 \times 9000}{12.125 \times 8.875} = 196 \text{ lbs.}$$

W1054-0214



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