

$$\text{Rivets } \frac{1.48 \times 5 + 1.75 \times 85}{9.25 \times 1.34} = 89$$

$$\text{Plate } \frac{9.25 - 1.37}{9.25} = \frac{788}{9.25} = 85.15$$

$$\text{Shell } \frac{22(21.5 - 2)85.15}{198.3} = 183 \text{ lbs}$$

$$\text{Furnace } \frac{1259(9.5 - 2)}{49.44} = 190 \text{ lbs}$$

$$\text{C.C bottom } \frac{50(273 - 78)}{48} = 203 \text{ lbs}$$

$$\text{C.C back } \frac{135 \times 121}{89.07} = 183 \text{ lbs}$$

$$\left. \begin{array}{l} \text{20 stays} \\ 1.59 \text{ off dia} \end{array} \right\} \frac{1.99 \times 9000}{84.2} = 213 \text{ lbs}$$

$$\left. \begin{array}{l} \text{W.W Back} \\ 13\frac{1}{2} \times 9\frac{3}{8} \end{array} \right\} \frac{135 \times 272.25}{135.67} = 271 \text{ lbs}$$

$$\left. \begin{array}{l} \text{20 stays} \\ 12\frac{1}{4} \times 9\frac{3}{8} \end{array} \right\} \frac{2.31 \times 9000}{115} = 181 \text{ lbs}$$

$$\text{Steam Space plates } \frac{185 \times 441}{448.15} = 182 \text{ lbs}$$

$$\left. \begin{array}{l} \text{20 stays} \\ 3.16 \text{ off diam} \end{array} \right\} \frac{7.855 \times 10400}{(22\frac{1}{4} \times 19\frac{7}{8}) - 442} = 164 \text{ lbs}$$

$$\text{Back tube plate } \frac{140 \times 13^2}{9\frac{5}{8}^2} = 255 \text{ lbs}$$

$$\text{W.W front } \frac{140 \times 16\frac{1}{2}^2}{14\frac{1}{2}^2} = 181 \text{ lbs}$$

$$\text{Girders } \frac{10660 \times 64 \times 2}{22.75 \times 9.75 \times 32} = 192 \text{ lbs}$$

Merion Blair & Co
 Eng No. 1739

16'-9" x 11'-6"
 180 lbs

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