

Mult Steel Boilers to be made by Mess Anderson &  
 Lyall for Mess Cunningham & Ellis & Co

110 lbs. working pressure.

$$\text{Plates } \frac{4.906 - 9375}{4.906} = 81$$

$$\text{End top } \frac{185 \times 14^2}{18 \times 25} = 111 \text{ lbs.}$$

$$\text{Rivet } \frac{3 \times 69 \times 1.75 \times 85}{4.906 \times 1.75} = 84$$

$$\text{Stay } \frac{10000 \times 4.3}{18 \times 18.25} = 131 \text{ lbs.}$$

$$\text{Shell } \frac{29}{24} \times \frac{21 \times 81 (12-2)}{15.9} = 115 \text{ lbs.}$$

$$\text{Front tube } \frac{140 \times 14^2}{14.5} = 130 \text{ lbs.}$$

$$\text{Furnace } \frac{1848200 \times .593}{83 \times 40} = 114 \text{ lbs.}$$

$$\text{Back } \frac{140 \times 11^2}{11.845} = 120 \text{ lbs.}$$

$$\text{Cone of hr } \frac{120 \times 8.5}{8.31} = 125 \text{ lbs.}$$

$$\text{Stay tubes } \frac{7500 \times 2.36}{12 \times 10.125 - 21.6} = 146 \text{ lbs.}$$

$$\text{Stays } \frac{1.19 \times 8000}{8.4375 \times 8.18} = 138 \text{ lbs.}$$

$$\text{Boiler Back } \frac{100 \times 10.5^2}{105} = 104 \text{ lbs.}$$

$$\text{Stays } \frac{120 \times 8^2}{82} = 120 \text{ lbs.}$$

$$\text{Stays } \frac{1.48 \times 8000}{10.22 \times 10.46} = 111 \text{ lbs.}$$

$$\text{Girders } \frac{9900 \times 4.45^2 \times 1.625}{(35.25 - 8.25) 4.45 \times 35.25} = 118 \text{ lbs.}$$

W.R. 10 Jan 1898

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 Foundation

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