

Mult. Steel Main Boilers No. 474 by Scotts S.R. & Co. Ltd.  
for their No. 407

180th Working Pressure.

$$\text{plate } \frac{8.125 - 1.1875}{8.125} \times 100 = 85.3$$

$$\text{end stop } \frac{185 \times 16^2}{248.5} = 191 \text{ lbs.}$$

$$\text{Rivet } \frac{5 \times 1.41 \times 1.45 \times 55}{8.125 \times 1.1875} = 84$$

$$\text{" " Stays } \frac{4.68 \times 10000}{15 \times 16.5} = 189 \text{ lbs.}$$

$$\text{Shell } \frac{28}{24} \times \frac{21 \times 85.3 (19-2)}{174} = 181 \text{ lbs.}$$

$$\text{Front tube } \frac{140 \times (13 \frac{3}{4})^2}{14^2} = 204 \text{ lbs.}$$

$$\text{Furnace } \frac{1259 (8.5-2)}{4.5} = 182 \text{ lbs.}$$

$$\text{Back " } \frac{140 \times 13^2}{11.375^2} = 183 \text{ lbs.}$$

$$\text{Comb. bar } \frac{135 \times 9.5^2}{65.1} = 184 \text{ lbs.}$$

$$\text{Boiler Back } \frac{135 \times 13^2}{172} = 184 \text{ lbs.}$$

$$\text{" " Stays } \frac{1.448 \times 8000}{825 \times 7.875} = 180 \text{ lbs.}$$

$$\text{" " Stays } \frac{203 \times 9000}{10.56 \times 8.25} = 211 \text{ lbs.}$$

$$\text{Girders } \frac{9900 \times 9.125^2 \times 1.8}{(33 - 7.875) 5.25 \times 33} = 181 \text{ lbs.}$$

W.L. 1905  
16 Nov

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