

Kuel Steel Manu. Boilers No 390. by Lly. Duncan 167 h' for
R. Duncan 167 h' 320 h' steel. 180 h' working pressure

$$\text{Rivet } \frac{8.5 - 1.25}{2.5} \times 100 = 85.3$$

$$\text{Plate } \frac{5 \times 1.23 \times 1.75 \times 85}{8.5 \times 1.219} = 87.6$$

$$\text{Shell } \frac{22 \times 85.3 (19.5 - 2)}{180} = 182 \text{ lb}$$

$$\text{Dumace } \frac{1259 (9 - 2)}{48.25} = 783 \text{ lb}$$

$$\text{Comb. Cyl. } \frac{125 \times 10.5^2}{78.5} = 191 \text{ lb}$$

$$\text{Stays } \frac{1.79 \times 9000}{9 \times 8.75} = 204 \text{ lb}$$

$$\text{Lein } \frac{125 \times 9.5^2}{67.5} = 181 \text{ lb}$$

$$\text{Stays } \frac{1.487 \times 8000}{835 \times 7.5} = 181 \text{ lb}$$

$$\text{Girders } \frac{10660 \times 9^2 \times 1625}{(32.1 - 7.5) 9 \times 32.1} = 222 \text{ lb}$$

$$\text{Stays } 1.44 \times 900$$

$$\text{Top Ends } \frac{185 \times 19^2}{362} = 184 \text{ lb}$$

$$\text{Stays } \frac{6.33 \times 10400}{18 \times 20} = 183 \text{ lb}$$

$$\text{Front tube } \frac{140 \times 15^2}{13.25} = 180 \text{ lb}$$

$$\text{Back } \frac{140 \times 12^2}{10.32} = 189 \text{ lb}$$

$$\text{Boiler Back } \frac{135 \times 13.75^2}{126} = 202 \text{ lb}$$

$$\text{Stays } \frac{2.1 \times 9000}{11.25 \times 8.75} = 195 \text{ lb}$$

WRh.
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