

Mult. Steel Boiler by Mess^{rs} J. Ludron & Co. Ltd. for

Mess^{rs} Kopner Hons. 12 317 Vessel. 80th working pressure.

$$\text{Plate } 4.25 - \frac{8125}{4.25} \times 100 = 81$$

$$\text{Rivet } 4 \times 5.2 \times 85 = 89$$

$$\frac{4.25 \times 4.69}{102}$$

$$\text{Shell } 18.5 \times 81 (7.5 - 2) = 80 \text{ lbs.}$$

$$\frac{102}{102}$$

$$\text{Turnace } \frac{89600 \times .4375^2}{5.75 \times 30} = 99 \text{ lbs.}$$

$$\text{" } \frac{8000 \times 7}{30 \times 16} = 116 \text{ lbs.}$$

$$\text{Comen. Cas } \frac{120 \times 8.5^2}{9.75^2} = 91 \text{ lbs.}$$

$$\text{" } \text{Stays } \frac{1.48 \times 6000}{9.75 \times 9} = 101 \text{ lbs.}$$

$$\text{" } \text{Sides } \frac{120 \times 7.5^2}{9.75^2} = 71 \text{ lbs.}$$

$$\text{" } \text{Stays } \frac{.99 \times 6000}{9.75 \times 7.25} = 84 \text{ lbs.}$$

$$\text{" } \text{back } \frac{120 \times 7^2}{8.5^2} = 81 \text{ lbs.}$$

$$\text{Front tube } \frac{140 \times (9 + \frac{6}{13})^2}{13^2} = 119 \text{ lbs.}$$

$$\text{Back " } \frac{140 \times 10^2}{13^2 + 10.625^2} = 82 \text{ lbs.}$$

$$\frac{134 \text{ lbs.}}{134 \text{ lbs.}}$$

$$\text{Stay tubes } \frac{7500 (6.49 - 4.43)}{10.75 \times 9.75 - 16} = 174 \text{ lbs.}$$

$$\text{Girders } \frac{6600 \times 6^2 \times 1.25}{(24 - 9) 9.75 \times 24} = 85 \text{ lbs.}$$

$$\frac{76 \text{ lbs.}}{76 \text{ lbs.}}$$

$$\text{Ends top } \frac{185 \times 10.5^2}{15.5^2} = 84 \text{ lbs.}$$

$$\text{" } \text{Stays } \frac{2.4 \times 7500}{15.5 \times 11} = 105 \text{ lbs.}$$

$$\text{Boiler Back } \frac{100 \times 8.5^2}{8.5^2} = 100 \text{ lbs.}$$

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