

Mult^r Steel Boiler by Mess^{rs} A. Nicholson & Co^{rs} for
Mess^{rs} McKie & Bakers N^o 100 Engines.

120 lbs Working Pressure

plate % $\frac{3.25 - 8125 \times 100}{3.25} = 45$

End cap $\frac{185 \times \frac{12}{15}}{15} = \frac{120 \text{ lbs}}{100 \text{ lbs}}$

Rivet % $\frac{24.52 \times 1.75 \times 86}{3.25 \times 5.598} = 80$

Stay $\frac{9000 \times 3.14}{15 \times 13} = 145 \text{ lbs}$

Shell $\frac{20 \times 45 (95-2)}{90} = 125 \text{ lbs}$

Tube plate $\frac{140 \times \frac{12}{12.8}}{12.8} = \frac{122 \text{ lbs}}{102 \text{ lbs}}$

Combust^r $\frac{120 \times \frac{8.5}{8.25}}{8.25} = \frac{124 \text{ lbs}}{99 \text{ lbs}}$

Stay tubes $\frac{4500 (11.4 - 8.95)}{11.625 \times 15.375 - 3.5 \times 11.4} = 153 \text{ lbs}$

Stays $\frac{148 \times 6000}{8 \times 825} = \frac{131 \text{ lbs}}{112 \text{ lbs}}$

Corners $\frac{8000 \times \frac{14}{32}}{32 \times 32} = \frac{115 \text{ lbs}}{101 \text{ lbs}}$

Girders $\frac{9900 \times \frac{8}{28} \times 1.25}{(28-825) 8 \times 28} = 13 \frac{1}{2} \text{ lbs}$

Flanges $\frac{1259 (6-2)}{36} = 140 \text{ lbs}$



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