

Incl 1st Steel main Boiler by man Card 164 deni² for
 their 209-10-11-12 Vessels. 215 lbs² Working pressure.

plate % $\frac{10.0025 - 1.5625}{10.0025} \times 100 = 84.4$

Rivet % $\frac{5 \times 1.92 \times 1.45 \times 85}{10.0025 \times 1.5} = 94.4$

shell $\frac{29}{27} \times \frac{21 \times 84.4 (24-21)}{156} = 268 \text{ lbs.}$

Furnace $\frac{12.59 (10.5-2)}{45.75} = 233 \text{ lbs.}$

Comb. Ch²
 top $\frac{135 \times 10.5^2}{66} = 226 \text{ lbs.}$

" - Stays $\frac{1.49 \times 9000}{66} = 243 \text{ lbs.}$

" - Back $\frac{135 \times 10^2}{62} = 214 \text{ lbs.}$

" - Stays $\frac{1.49 \times 9000}{62} = 254 \text{ lbs.}$

S. 2. Girders $\frac{9900 \times 10.5^2 \times 1.5}{(32-8) 8.25 \times 32} = 258 \text{ lbs.}$

D. 6. " $\frac{11000 \times 8.5^2 \times 1.5}{(25-371-925) 8.25 \times 25.375} = 397 \text{ lbs.}$

" - cc top $\frac{135 \times 11.5^2}{76.7} = 232 \text{ lbs.}$

" - Stays $\frac{2.08 \times 9000}{76.7} = 242 \text{ lbs.}$

Ends top $\frac{185 \times 24.25^2}{268} = 152 \text{ lbs.}$

" - Stays $\frac{6.65 \times 9000}{17 \times 18.75} = 265 \text{ lbs.}$

Front tube $\frac{140 \times 24.25^2}{14} = 292 \text{ lbs.}$

Back " $\frac{140 \times 12^2}{8.5} = 282 \text{ lbs.}$

Boiler Back $\frac{135 \times 10^2}{110} = 207 \text{ lbs.}$

" - Stays $\frac{2.4 \times 9000}{10.125 \times 8} = 267 \text{ lbs.}$

C. cut bottom $\frac{50 (300 \times 871 - 27)}{46} = 256 \text{ lbs.}$



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