

Invert Steel beam Boiler No. 849 by Messrs. Palmers
S.B. & J. Coy. Linn. for.

180 lbs working pressure.

Plate 9. $\frac{7.5 - 1.0625}{7.5} \times 100 = 85.8.$

Common form $\frac{10660 \times 8.5^2 \times 1625}{(31 - 8.5) 8 \times 31} = 224 \text{ lbs}$

Rivet 9. $\frac{5 \times .89 \times 1.75 \times 55}{7.5 \times 1} = 88$

Top of ends $\frac{185 \times 16^2}{16^2} = 185 \text{ lbs.}$

Shell $\frac{22 \times 85.8 (16 - 2)}{138} = 191 \text{ lbs.}$

Stay in do. $\frac{5.05 \times 10400}{16^2} = 206 \text{ lbs}$

Firewall $\frac{50 (300 \times .75 - 75)}{41.5} = 180 \text{ lbs}$

Front tiebe $\frac{140 \times 16^2}{14^2} = 183 \text{ lbs}$

Combr. Ch. Base $\frac{135 \times 11^2}{89.6} = 183 \text{ lbs}$

Base " $\frac{140 \times 12^2}{10.94^2} = 168 \text{ lbs.}$

" " Stay $\frac{2.05 \times 9000}{9.5 \times 9.375} = 207 \text{ lbs}$

Boiler Base $\frac{135 \times 16^2}{14^2} = 243 \text{ lbs}$

" " Ends $\frac{135 \times 10^2}{74.6} = 181 \text{ lbs.}$

" " Stays $\frac{2.36 \times 9000}{11.35 \times 9.375} = 192 \text{ lbs.}$

" " Stays $\frac{1.78 \times 8000}{8.78 \times 8.5} = 186 \text{ lbs}$

W.R.H.

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