

Mult. Steel Boilers by Messrs. Westgarth English & Co.
for Messrs. Furness, Withy & Co. No. 226 vessel.

160 lbs working pressure.

Plate % $\frac{8.25 - 1.25}{8.25} \times 100 = 85$ Ends top $\frac{175 \times 15^2}{17 \times 18.25^2} = 140 \text{ lbs.}$

Rivet % $\frac{1.23 \times 5 \times 1.45 \times 85}{8.25 \times 1.25} = 88$ " Stays $\frac{4.9 \times 9000}{17 \times 18.25^2} = 163 \text{ lbs.}$

Shell $\frac{20 \times 85}{186} (20 - 2) = 164 \text{ lbs.}$ Front tube $\frac{140 \times (12 + \frac{10}{2})^2}{14.5^2} = 192 \text{ lbs.}$

Furnace $\frac{1259 \times (8 - 2)}{46.5} = 162 \text{ lbs.}$ Back " $\frac{140 \times 12^2}{9.5^2} = 223 \text{ lbs.}$

Corner ch. back $\frac{135 \times 10^2}{92} = 167 \text{ lbs.}$ Stay tubes $\frac{7500 (8.95 - 6.49)}{12 \times 9.5 - 28.8} = 217 \text{ lbs.}$

" " " " $\frac{135 \times 9^2}{82} = 140 \text{ lbs.}$ Boiler Back $\frac{135 \times (12 + \frac{10}{2})^2}{112} = 160 \text{ lbs.}$

" " Stays $\frac{1.76 \times 6000}{82} = 165 \text{ lbs.}$ " Stays $\frac{7500 \times 2.06}{10 \times 9} = 171 \text{ lbs.}$

" " Bottoms $\frac{8800 \times 15}{48.375 \times 16} = 141 \text{ lbs.}$

" " Girders $\frac{9000 \times 8.5^2}{(36 - 8) 8 \times 36} = 161 \text{ lbs.}$

W. H. Furness & Co.
© 1920
Floyd's Register
Foundation

HPL878-0112