

W923-0205

Mult. Steel main Boilers (K^o 356-7) by Mess^r The
Clyde Ship^y & Eng^y 86^y for Mess^r Armstrong & Co^r & are
Clyde Ship^y & Eng^y Co^r K^o 256 Vessels respectively.

180 lbs "Working pressure."

plate % $\frac{9.625 - 1.4375}{9.625} \times 100 = 85$ Ends to $\frac{145 \times 21.5^2}{353} = 229 \text{ lbs.}$

Riv^t % $\frac{5 \times 1.62 \times 1.45 \times 85}{9.625 \times 1.45} = 91.5$ Stays $\frac{10000 \times 4.5}{18.5 \times 18} = 226 \text{ lbs.}$

Shell $\frac{28}{24} \times \frac{21 \times 85 (22-2)}{162.25} = 22 \frac{3}{4} \text{ lbs}$ Front tube $\frac{140 \times 15^2}{14.25^2} = 188 \text{ lbs.}$

Furnace $\frac{1160 (9-2)}{42} = 193 \text{ lbs.}$ Back $\frac{1140 \times 15^2}{10.34^2} = 293 \text{ lbs.}$

Comb^o 6th $\frac{135 \times 11^2}{9^2} = 202 \text{ lbs.}$ Stay tubes $\frac{4500 \times 2.64}{11 \times 9 - 18.6} = 349 \text{ lbs.}$

" Stays $\frac{204 \times 9000}{9^2} = 229 \text{ lbs}$ Boiler Back $\frac{135 \times 15^2}{14.2} = 214 \text{ lbs.}$

Guiders $\frac{9900 \times 10.5^2 \times 1.5}{(34.25 - 8.25) 9 \times 34.25} = 205 \text{ lbs.}$ Stay $\frac{204 \times 9000}{12.5 \times 9} = 165 \text{ lbs.}$

W.R.H.
26th Feb^y 1903.
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Foundation