

Messrs. Bartram Haswell & Co 3/8 No 156

% of plate 84.55. % of Rivets 94.43.

WP of Shell. $= \frac{20 \times (20-2) \times 84.55}{174} = 195 \text{ tons.}$

" Main stays. $\frac{5.05 \times 9000}{17.25 \times 15} = 176 \text{ tons.}$

" Screen stays. $\frac{1.73 \times 8000}{9^2} = 190.8 \text{ tons.}$

" Flat plates in steam space $\frac{185 \times 18^2}{17.25^2} = 201 \text{ tons,}$

" Flat plates in C. Chamber below $\frac{135 \times 10^2}{17.25^2} = 166.8 \text{ tons.}$

" Gen. plates between nests of tubes. $\frac{140 \times (12 + \frac{10}{2})^2}{13.5^2} = 222 \text{ tons.}$

" Flat plates wide spaces at back end. $\frac{135 \times (11 + \frac{10}{2})^2}{13.5^2} = 214 \text{ tons.}$

" Furnaces. $\frac{9900 \times 8.5^2 \times 1.5}{(32.5-9) \times 8 \times 32.5} = 191.4 \text{ tons.}$

" Furnaces.

$\frac{1160 \times (8-2)}{41} = 169.8 \text{ tons}$

C. V. Friddle