

Doejns 193

Plate 85.03 to Rupt 88.5 Commin 8'4.7

Shell $\frac{260 \times 85 \times 1\frac{1}{32}}{168} = 160 \text{ lbs for shell}$

Flat plates $\left\{ \begin{array}{l} \frac{160 \times 16^2}{16^2} = 160 \text{ lbs for flat plates in steam space} \\ \frac{120 \times 9^2}{4.75^2} = 162 \text{ lbs for flat plates in cc} \end{array} \right.$

Stump $\left\{ \begin{array}{l} \frac{2\frac{1}{2} \text{ or } 2\frac{1}{2} \text{ dia at bottom of thread}}{4.908 \times 9000} = 148 \text{ lbs for steam space stump} \\ 1\frac{3}{8} = \frac{1.22 \times 8000}{7.75 \times 7.5} = 168 \text{ lbs for water space stump} \end{array} \right.$

Grids $\frac{9000 \times 9.75^2 \times 1.5}{(36 - 7.75) \times 7.5 \times 36} = 146 \text{ lbs for grids}$

Furnaces $\frac{1000 \times (9 - 2)}{41.5} = 168 \text{ lbs for furnaces}$

Heating surface

$3\frac{1}{2} = \frac{10.99 \times 80 \times 430}{144} = 2624 \text{ sq ft in tubes in one boiler}$

$4 \times 5 \times 4 - 10.99 \times 2$
 $6\frac{1}{2} \times 3 \times 2 - 1 \times 10.99$ } minus tube opening = 45 ft in tube plates
 $\frac{10.99 \times 430}{144}$

$3.0 \times 14 \times 2 = 84$
 $16 \times 3 = \frac{48}{132}$

$6 \times 2 \times 10.99 = 121.88$
 $1 \times 6 \times 10.99 = 65.94$

$319.82 \text{ m furnaces + sides}$



Total

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Heating surface will be
 revised afterwards pl.

1261
2132
3089

196
1176
3136



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