

P. ROWAN & Co. Boilers #339  
Circumferential Seams Plate  $\frac{3.24 - 1.18}{3.24} = 23.6$

Rivets  $\frac{1.1 \times 23 \times 2}{28 \times 3.24 \times 1.156} = 48.3$

Longitudinal Seams Plate  $\frac{8.56 - 1.25}{8.56} = 85.5$

Rivet  $\frac{23 \times 1.22 \times 5 \times 1.875}{28 \times 8.56 \times 1.156} = 95.3$

Combined  $\frac{8.56 - 2.5}{8.56} + \frac{95.3}{5} = 70.7 + 19.2 = 89.9$

Shell  $\frac{35 \times 28 \times 85.5}{2.75 \times 168} = 180$

Furnaces  $\frac{480 \times 15}{40} = 180$

Top ends  $\frac{96 \times 1296}{324 + 361} = 181$

Front tube plate (w.w. spaces)  $\frac{72 \times 676}{192.5 + 76.5} = 181$

Back tube pl.  $\frac{484 \times 38}{10} = 184$

Girders  $\frac{371 \times 56.25 \times 56}{30.625 \times 20875 \times 10.25} = 178$   $7 \frac{9}{10}$  inches  $\times \frac{57}{56.25} = 180.5$

CC side stops  $\frac{75 \times 484}{105 + 85.56} = 190$

Backs  $\frac{75 \times 400}{85.5 + 72.25} = 190$

Lower back  $\frac{86 \times 529}{172.26 + 72.25} = 186$

Main stay  $\frac{6.89 \times 9500}{18 \times 19} = 191$

Screwed stay  $1 \frac{7}{8}$   $\frac{15214}{8.5 \times 9.25} = 194$

$1 \frac{3}{4}$   $\frac{18144}{11.18 \times 8.5} = 191$  (margin)

$1 \frac{1}{8}$   $\frac{21332}{11.68 \times 9.25} = 197$

2  $\frac{24777}{11.68 \times 11.18} = 190$



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