

D. Rowan & Co. BOILERS N^o 840
Circumferential Seams Plate (front) $\frac{3.14 \times 1.18}{3.14} = 62.8$

Rivets (back) $\frac{23 \times 1.35 \times 2}{28 \times 3.52 \times 1.25} = 50.3$

Longitudinal Seams Plate $\frac{7.565}{8.875} \times \frac{8.875 - 1.31}{8.875} = 85.2$

Rivets $\frac{23 \times 1.35 \times 5 \times 1.875}{28 \times 8.875 \times 1.25} = 93.8$

Combined $\frac{6.255}{8.875} \times \frac{8.875 - 2.62}{8.875} + \frac{93.8}{3} = 70.5 + 18.7 = 89.2$

Shell $\frac{38 \times 28 \times 85.2}{2.75 \times 184.5} = 178.2$ 149.8
183.5

Furnaces $\frac{480 \times 17.5}{46.156} = 182$

Top end plates $\frac{96 \times 1600}{441 + 400} = 182$
841

Front tube plate (w.w. space) $\frac{72 \times 729}{203.06 + 76.56} = 187$
279.62

Back tube plate $\frac{38 \times 529}{10.25^2} = 181$

Girders $\frac{371 \times 81 \times 56}{34.56 \times 26.31 \times 10.25} = 181$

C.C. sides & top $\frac{75 \times 441}{105.06 + 68} = 191$
173

C.C. backs $\frac{75 \times 441}{92.64 + 76.56} = 195$
169.20

Lower back $\frac{86 \times 576}{178.89 + 76.56} = 194$
255.45

Main stays $\frac{8.265 \times 9500}{21 \times 20} = 186$

Screwed stays $\frac{15214}{10.25 \times 8.25} = 180$

$\frac{18144}{11.5 \times 8.25} = 180$

$\frac{21332}{9.62 \times 11.3} = 190$

$\frac{24777}{11.3 \times 11.5} = 190$

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 W487-0093