

# Rowan rev Boilers # 863

Circumferential seams Plate  $\frac{3.19 - 1.18}{3.19} = 63$  (front)

Rivets  $\frac{23 \times 1.22 \times 2}{28 \times 3.48 \times 1.219} = 47.5$  (back)

Longitudinal seams  
Plate  $\frac{7.6725}{8.9375 - 1.25} = 86$

Rivets  $\frac{23 \times 1.22 \times 5 \times 1.875}{28 \times 8.9375 \times 1.219} = 86.5$

Combined  $\frac{6.4375}{8.9375 - 2.5} + \frac{86.5}{5} = 72 + 17.3 = 89.3$

Shell  $\frac{37 \times 28 \times 86}{2.75 \times 177.57} = 183$

Furnaces  $\frac{480 \times 16.5}{43.84} = 180$

Top ends  $\frac{96 \times 15.21}{390.06 + 420.25} = 180$

Front tube plate  $\frac{72 \times 676}{182.25 + 52.56} = 207$  Back tube plate  $\frac{38 \times 506.25}{10.25} = 187$

Ends  $\frac{371 \times 95 \times 56}{34.61 \times 26.36 \times 11.875} = 182$

Cc sides stop  $\frac{75 \times 506.25}{68.06 + 141.01} = 182$

Cc backs  $\frac{75 \times 400}{100 + 66} = 180$

Lower back  $\frac{86 \times 529}{66 + 182.25} = 183$

Main stay 3"  $\frac{78522}{20.315 \times 17.75} = 217$

Screw stay 1 5/8"  $\frac{15214}{81.2} = 187$

1 3/4"  $\frac{18144}{95.4} = 190$

1 7/8"  $\frac{21332}{110.6} = 192$

2"  $\frac{24777}{136} = 181$

marginal

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