

N.E. MARINE, INC. C. BOILERS N° 2577
Circumferential beams

Plate $\frac{100 \times 2.875 - 1.09}{2.875} = \frac{179}{2.875} = 53.2$ (Bottom of beam)

Rivets $\frac{100 \times 23 \times .939 \times 2.41}{28 \times 3.25 \times 1.015} = 46.6$ (Top of beam)

Longitudinal beams, Plate $\frac{100 \times 6.72}{7.8125} = 86$

Rivets $\frac{23 \times .939 \times 5 \times 1.875}{28 \times 7.8125 \times 1.015} = 91$

Combined $\frac{100 \times 5.63}{7.8125} + \frac{91}{5} = 72.2 + 18.1 = 90.3$

Shell $\frac{30.5 \times 28 \times 86}{2.75 \times 147.93} = 181$

Furnace $\frac{480 \times 15.5}{40.28} = 184$

Top ends $\frac{1600 + .15 \times 900}{625 + 342.25} = \frac{1735}{967.25} = 179.5$

W.W. space $\frac{52 \left[729 + .55 \times 576 \right]}{210.25 + 81} = \frac{52 \times 1045}{291.25} = 186$

Back tube plate $\frac{38 \times 529}{110.25} = 182$

Girders $\frac{371 \times 68.06 \times 60}{31.47 - 9.75 \times 12\frac{1}{8} \times 31.47} = \frac{371 \times 68.06 \times 60}{21.72 + 12.125 \times 31.47} = 184$

cc side & top $\frac{75 \times 576}{147.04 + 95.06 \times 242.07} = 178$ arranged increase of thickness of wrapper to $\frac{13}{16}$ new plan submitted.

cc side & top $\frac{75 \times 625}{242.07} = 193$

cc backs $\frac{75 \times 576}{123.76 + 110.233} = \frac{75 \times 576}{233} = 185$

cc bottom $\frac{50}{21.56} \times 120 - 25 = \frac{50 \times 95}{21.56} =$

Lower lock $\frac{86 \times 729}{210.15 + 126.66} = \frac{86 \times 729}{336.81} = 187$

Main stay C $\frac{85500}{25 \times 18.5} = 184$

screw day (2")

$$\frac{24777}{11.125 \times 12.25} = 181$$

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$$\frac{21382}{11.125 \times 10.5} = 182$$



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