

Riley Boilers 3513-4-5-6-7-8

120 lb

Plate $76.2 \text{ Rivets } \frac{159 \times 12 \times 1.75 \times 85}{16} = 75.8$

Shell $\frac{21 \times 75.8 \times (1-2)}{118} = 121.4$

Top end plate $\frac{185 \times 13^2}{15^2} = 132$

Stays $\frac{3.14 \times 10000}{15 \times 15 \times \frac{3}{8}} = 136$

Back wws $\frac{135 \times 13^2}{1348 \times 108^2} \checkmark 195$

Stays top row $\frac{1.41 \times 10000}{11 \times 10} = 123$

Side $\frac{1.48 \times 10000}{11 \times 8} = 128$

CC back $\frac{135 \times 9^2}{9^2} = 135$ Stays $\frac{1.23 \times 8000}{8 \times 10} = 123$

CC sides $\frac{120 \times 8^2}{8^2} = 135$ Stays \checkmark

CC tops $\frac{120 \times 8^2}{7^2} = 136$ Stays \checkmark

Isolators $\frac{9900 \times 6^2 \times 14}{(27-7 \frac{1}{2}) \times 7 \frac{1}{2} \times 27} = 112 \text{ } 122$

Back Tube P $\frac{140 \times 9^2}{9^2} = 125$

J. J. P. $\frac{160 \times 13^2}{15^2} = 120$

Furnace $\frac{508139}{106.5 \times 39} = 122$

Shell at $3 \frac{3}{4} \text{ P} = 75\%$

$\frac{21 \times 75 \times (1-2)}{118} \times \frac{28}{67} = 120 \times \frac{28}{27} = 124$



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