

Steel Main Boilers for Furnace, Withy & Co's S/S N^o 243 & 4
 Furnace Westgarth & Co's N^o 141 & 2.

Working press = 190 lbs.

$$\text{Plate } \frac{9 - 1.3125}{9} \times 100 = 85.4\%$$

$$\text{Rivets } \frac{5 \times 1.35 \times 85 \times 1.75}{9 \times 1.3125} = 85\%$$

$$\text{Shell } \frac{21 \times (21 - 2)}{144} = 191.6 \text{ lbs}$$

$$\text{Furnace } \frac{1259 \times (9 - 2)}{46} = 171.2 \text{ lbs}$$

$$\text{Ends (top) } \frac{185 \times 16.5^2}{17^2 + 14.5^2} = 201.8 \text{ lbs}$$

$$\text{“ “ Stays } \frac{10000 \times 4.9}{17 \times 14.5} = 198.4 \text{ lbs}$$

$$\text{Flute plate } \frac{140 \times (14 + \frac{12}{2})^2}{13.5^2} = 244.3 \text{ lbs}$$

$$\text{B “ “ } \frac{140 \times 12^2}{7.5^2} = 358.4 \text{ lbs}$$

$$\text{b.l. back } \frac{135 \times 10^2}{8.25^2} = 198.5 \text{ lbs}$$

$$\text{“ “ “ Stays } \frac{7500 \times 2.04}{8.25^2} = 228.3 \text{ lbs}$$

$$\text{“ “ Sides } \frac{135 \times 10^2}{\frac{8.875^2 + 7.75^2}{2}} = 194.5 \text{ lbs}$$

$$\text{“ “ “ Stays } \frac{7500 \times 2.04}{8.875 \times 7.75} = 225.4 \text{ lbs}$$

$$\text{“ “ “ “ } \frac{(30 - 8) \times 8.75 \times 30}{2} = 171.0 \text{ lbs}$$

$$\text{Boiler back between b.l. } \frac{135 \times 14^2}{13^2 + 8.25^2} = 223.2 \text{ lbs}$$

$$\text{“ “ Stays } \frac{9000 \times 2.04}{10.625 \times 8.25} = 212.6 \text{ lbs}$$

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