

Steel Main Boilers, 170 lbs, to be made
by J Richardson & Sons for the
Vessels, "Wolverton", "Pallion" & "Stanton"

$$\text{Shell} = \frac{260 \times 84.8 \times 1.1875}{153} = 171.1 \text{ lbs}$$

$$\text{Main Stays} = \frac{5.411 \times 9000}{17.375 \times 16.375} = 171.1 \text{ lbs}$$

$$\text{Screw Stays} = \frac{1.484 \times 8000}{8.4375 \times 8.125} = 173.2 \text{ lbs}$$

$$\text{End Plates (Steam Space)} = \frac{185 \times 14^2}{17.375^2} = 177.0 \text{ lbs}$$

$$\text{Combustion Chamber (back)} = \frac{135 \times 9.5^2}{8^2} = 190.3 \text{ lbs}$$

$$\text{" (Sides)} = \frac{135 \times 9.5^2}{8.4375^2} = 171.1 \text{ lbs}$$

$$\text{Furnaces (Morrison's Patent)} = \frac{1000 \times (10-2)}{2 \times 44.75} = 178.7 \text{ lbs}$$

$$\text{Front Tube plate} = \frac{150 \times 15.5^2}{14.5^2} = 171.4 \text{ lbs}$$

$$\text{Bottom Back Plate} = \frac{135 \times 13.5^2}{11.875^2} = 174.4 \text{ lbs}$$

$$\text{Enders} = \frac{9900 \times 7.5^2 \times 1.75}{(28-8\frac{1}{4}) \times 28 \times 7.75} = 227.3 \text{ lbs}$$



JR Blackie

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