

Port

Glasgow

October 2<sup>nd</sup> 1892

787 1/2 tons

Details of Main Boilers of the Steam Ship

"Warwick Castle"

1892

Diameter 13' 6"

Length 15' 11 1/4"

Thickness of shell plates 1 1/16"

Description of riveting of longitudinal joints Reble

of circumferential joints Double

Pitch of rivets ditto 3' 15/16"

ditto 4"

Diameter of rivets ditto 1 1/16"

ditto 1 1/16"

Lap of plating ditto 4"

ditto 5"

Size of manholes in circular shell 16" x 12"

nsated for

furnaces in boiler (Three in each end (Lies))

furnaces 3' 4"

Length of furnaces 6' 6"

f furnace plates 8/16"

of joint of furnaces Fitted with double straps

ngthened with rings

Greatest length between rings

of combustion chamber plating 8/16"

f screw stays to ditto 1 1/8"

pitch of stays 4 1/2" x 4"

thickness 1 1/16"

of longitudinal stays to end plates 2"

pitch of ditto 13 1/2" x 13 1/2"

are secured to angles 4" x 3" x 1 1/16"

of tubes 3"

pitch of tubes 4 1/4"

of tube plates 1 1/16"

Tube

pitch of stays 12 3/4" x 12 3/4"

of steam receiver Annular Superheater (Four Tubes)

ditto 9' 9" Lie 3' 2"

length of ditto 13 1/16"

f plating of ditto 13/16"

ends 1 1/16"

stayed to angles round shell & tubes. Tubes have six

collapsing angle rings fitted



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$$\text{Formula for Shell} \quad \frac{51620 \times 1.875 \times 72\%}{160 \times 6.5} = 66 \text{ lbs}$$

$$\text{Formula for flat plates} \quad \frac{100 \times 64}{52} = 127 \text{ lbs}$$

$$\text{Formula for Stues} \quad \frac{89600 \times .25}{6.5 \times 40} = 86 \text{ lbs}$$

$$\text{Longitudinal Stays } 2" \text{ dia } 13\frac{1}{2}" \times 13\frac{1}{2}" \text{ pitch} = 3881 \text{ lbs}$$

PM



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