

19909 Iron

Port

Greenock
HertSept 15th 1877
116.28 tons

Details of Main Boilers of the Steam Ship

Diameter 11' 1" Length 9' 9"

Thickness of shell plates $\frac{13}{16}$ "

Description of riveting of longitudinal joints Ribble of circumferential joints Double

Pitch of rivets ditto $4\frac{1}{8}$ " ditto $3\frac{3}{4}$ "

Diameter of rivets ditto $1\frac{1}{8}$ " ditto 1"

Lap of plating ditto 4 ditto $4\frac{3}{4}$ "

No. of manholes in circular shell 11' 2" x 16"

How compensated for by inside ring

Number of furnaces in boiler Two

Diameter of furnaces 3' 3" Length of furnaces 6' 6"

Thickness of furnace plates $\frac{9}{16}$ "

Description of joint of furnaces Double butt straps

Reinforced with rings

Greatest length between rings

Thickness of combustion chamber plating $\frac{1}{16}$ "

Diameter of screw stays to ditto $1\frac{1}{4}$ " pitch of stays $7\frac{1}{2}$ " x 8"

End plates, thickness $\frac{17}{16}$ "

Diameter of longitudinal stays to end plates 2' 8" pitch of ditto $14\frac{1}{2}$ " x $1\frac{1}{4}$ "

How stays are secured by double nuts

Diameter of tubes 3' 2" pitch of tubes $4\frac{5}{8}$ "

Thickness of tube plates $\frac{1}{16}$ "

Stayed by Tubes pitch of stays $10\frac{1}{4}$ " x $1\frac{1}{4}$ "

Description of steam receiver None

Diameter of ditto length of ditto

Thickness of plating of ditto ends

Ends, how stayed

James Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

Formula for Shell $\frac{51520 \times 1.625 \times 75\%}{132 \times 6.5} = 77 \text{ lbs}$

Formula for flat plates $\frac{49 \times 100}{60} = 81 \text{ lbs}$

Formula for Lugs $\frac{89600 \times .25}{6.5 \times 39} = 88 \text{ lbs}$

Longitudinal Stays 2" dia 17" x 14 1/2" pitch 4927

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