

Port

1770 from  
Glasgow Note 16<sup>th</sup> 47876  
"Rotorua" Rev 19/10/96 tons

# Details of Main Boilers of the Steam Ship

Diameter 13' 7 1/2" Length 14' 8"

Thickness of shell plates 18"

Description of riveting of longitudinal joints *Double riveted* of circumferential joints *Double riveted*

Pitch of rivets ditto 3 3/4" x 2 1/4" ditto 4 1/2" x 1 1/8"

Diameter of rivets ditto 1 1/8" ditto 1 1/8"

Lap of plating ditto 1 1/2" ditto 5"

Size of manholes in circular shell 14" x 13"

How compensated for *By doubling plate*

Number of furnaces in boiler *Six (three in each end)*

Diameter of furnaces 3' 4" Length of furnaces 6' 0"

Thickness of furnace plates 7/16"

Description of joint of furnaces *Double butt straps fitted*

Whether strengthened with rings *none* Greatest length between rings

Thickness of combustion chamber plating 7/16"

Diameter of screw stays to ditto 1 3/8" pitch of stays 8 3/4" x 4 3/4"

End plates, thickness 12"

Diameter of longitudinal stays to end plates 3 1/8" pitch of ditto 18" x 2 3/4"

How stays are secured *By double nuts on angle iron (see sketch) other side*

Diameter of tubes 3" pitch of tubes 4 1/4"

Thickness of tube plates 12"/16"

Stayed by *Tubes 3/8" thick* pitch of stays 12 3/4" x 12 3/4"

Description of steam receiver *Some connected to boiler by neck piece*

Diameter of ditto 4' 9" length of ditto 8' ft

Thickness of plating of ditto 10"/16" ends 14"/16"

Ends, how stayed *Radial Top & Bottom*

Report (if any) on Hull of Vessel  
No. 4391  
Port Glasgow



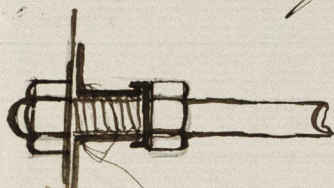
17171 Iron

Formulae for Shell  $\frac{51520 \times 2.25 \times 40\%}{161 \times 6.5} = 44 \text{ lbs}$

Formula for flat plates  $\frac{100 \times 64}{64} = 95 \text{ lbs}$

Formula for Stues  $\frac{89600 \times .25}{6' \times 40"} = 95 \text{ lbs}$

Longitudinal Stays  $3\frac{1}{8}" \text{ dia } 2'3" \times 1'6" \text{ pitch} = 44\frac{1}{2} \text{ lbs}$



End of Main

Angle  $6' \times 4' \times \frac{3}{4}"$

*M*



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