

18735-Turn

Port

Glasgow July 3<sup>rd</sup> 1887  
Carlin 766 tons

## Details of Main Boilers of the Steam Ship

Diameter 11' 3" Length 16' 0"

Thickness of shell plates  $\frac{14}{16}$ Description of riveting of longitudinal joints *welded* of circumferential joints *Double*

Pitch of rivets ditto ditto 4' 4"

Diameter of rivets ditto ditto 1"

Lap of plating ditto ditto 5"

Size of manholes in circular shell 12" x 16"

How compensated for *By angle iron ring*Number of furnaces in boiler *Six three in each end*

Diameter of furnaces 2' 9" Length of furnaces 6' 2"

Thickness of furnace plates  $\frac{7}{16}$ Description of joint of furnaces *Single butt shop fitted*

Whether strengthened with rings Greatest length between rings

Thickness of combustion chamber plating  $\frac{7}{16}$ 

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

End plates, thickness  $\frac{11}{16}$ 

Diameter of longitudinal stays to end plates 2' 4" pitch of ditto 16" x 16"

How stays are secured *By Double nuts*

Diameter of tubes 3' 2" pitch of tubes 4' 3/4"

Thickness of tube plates  $\frac{11}{16}$ Stayed by *Tubes* pitch of stays 9' 2" x 9' 2"Description of steam receiver *Round Longitudinal*

Diameter of ditto 3' 8" length of ditto 16"

Thickness of plating of ditto  $\frac{13}{32}$  ends  $\frac{8}{16}$ Ends, how stayed *The ends are Egg Shaped*



Formulae for Shell  $\frac{21520 \times 1.75 \times 70\%}{122.25 \times 6.5} = 79 \text{ lbs.}$

Formulae for flat plate  $\frac{64 \times 100}{72} = 88 \text{ lbs.}$

Formulae for Staves  $\frac{89600 \times .19}{6.16 \times 30} = 83 \text{ lbs.}$

Longitudinal Stays 24" dia 16" x 16" pitch = 4600 lbs

*MM*



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