

19080 Sm

Port

Glasgow August 16th 1874
"Summerlee" 833 tons

Details of Main Boilers of the Steam Ship

Diameter 11' 6"

Length

14 ft.

Thickness of shell plates

14/16"

Description of riveting of longitudinal joints

Double riveted

of circumferential joints

Double

Pitch of rivets

ditto

4 3/4"

ditto

4 1/2"

Diameter of rivets

ditto

1 5/8"

ditto

1 5/8"

Lap of plating

ditto

4 1/2"

ditto

4 1/2"

Size of manholes in circular shell

18" x 13 1/2"

How compensated for

By flat ring

Number of furnaces in boiler

Four (two in each end)

Diameter of furnaces

3' 4"

Length of furnaces

6' 3"

Thickness of furnace plates

8/16"

Description of joint of furnaces

Lapped & double riveted

Whether strengthened with rings

Half ring fitted on bottom at back end
Greatest length between rings

Thickness of combustion chamber plating

7/16"

Diameter of screw stays to ditto

1 1/4"

pitch of stays

8" x 9"

End plates, thickness

1 1/8"

Diameter of longitudinal stays to end plates

2"

pitch of ditto

14 1/2" x 14 1/2"

How stays are secured

By double nuts

Diameter of tubes

3 1/4"

pitch of tubes

4 3/4"

Thickness of tube plates

1/16"

Stayed by

Lubes

pitch of stays

13 1/2" x 13 1/2"

Description of steam receiver

Round Vertical with single flue

Diameter of ditto

9 ft. flue 3' 6"

height of ditto

3 ft.

Thickness of plating of ditto

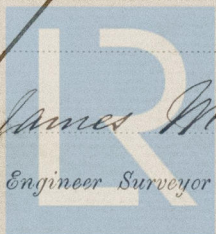
10/16"

ends

10 1/16"

Ends, how stayed

Attached to angles round shell & flue



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Formulae for Shell $\frac{51520 \times 1.75 \times 4\frac{1}{2}\%}{136.25 \times 6.5} = 42 \text{ lbs}$

Formula for flat plate $\frac{100 \times 49}{42} = 68 \text{ lbs}$

Formula for Stues $\frac{89600 \times .25}{6.25 \times 40} = 89 \text{ lbs}$

Longitudinal Stays 2" dia, 14'2" x 14'2" pitch = 4'41 lbs

RM

28.50
26 4 2500
22 4 294
56 4 328
78 4 109
545



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