

(472)

18651 Iran

Port

Glasgow June 4th 1874
Yacht "Elpeth" 77 tons

Details of Main Boilers of the Steam Ship

Diameter

9' 6"

Length

8' 6"

Thickness of shell plates

 $\frac{24}{32}$ "

Description of riveting of longitudinal joints

Double

of circumferential joints

Double

Pitch of rivets

ditto

4 $\frac{5}{8}$ "

ditto

4 $\frac{1}{2}$ "

Diameter of rivets

ditto

1 $\frac{3}{16}$ "

ditto

1 full

Lap of plating

ditto

6 $\frac{1}{2}$ "

ditto

4 $\frac{1}{4}$ "

Size of manholes in circular shell

18" x 13"

How compensated for

By flat ring 4 $\frac{1}{2}$ " x 1 $\frac{1}{16}$ "

Number of furnaces in boiler

Two

Diameter of furnaces

3 ft

Length of furnaces

6 ft

Thickness of furnace plates

7 $\frac{1}{16}$ "

Description of joint of furnaces

Double butt straps

Whether strengthened with rings

Greatest length between rings

Thickness of combustion chamber plating

7 $\frac{1}{16}$ "

Diameter of screw stays to ditto

1 $\frac{1}{4}$ "

pitch of stays

1 $\frac{3}{4}$ " x 8"

End plates, thickness

1 $\frac{1}{16}$ "

Diameter of longitudinal stays to end plates

2"

pitch of ditto

13" x 14 $\frac{1}{2}$ "

How stays are secured

By double nuts

Diameter of tubes

3 $\frac{1}{4}$ "

pitch of tubes

4 $\frac{1}{4}$ "

Thickness of tube plates

1 $\frac{1}{16}$ "

Stayed by

Lubes

pitch of stays

Description of steam receiver

Dome

Diameter of ditto

2' 8"

length of ditto

3' 2 $\frac{1}{2}$ "

Thickness of plating of ditto

7 $\frac{1}{16}$ "

ends

7 $\frac{1}{16}$ "

Ends, how stayed

It is placed at end of Boiler, all welded stayed & double riveted.

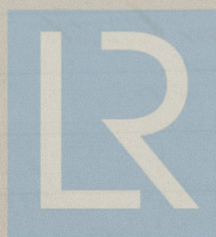
$$\text{Formulae for shell } \frac{51520 \times 1.69 \times 93\%}{112.3 \times 6.5} = 88 \text{ lbs}$$

$$\text{Formula for flat plate } \frac{100 \times 64}{62} = 103 \text{ lbs}$$

$$\text{Formula for Stays } \frac{89600 \times .20}{6 \times 36} = 103 \text{ lbs}$$

$$\text{Longitudinal Stay } 2" \text{ dia } 13' \times 14\frac{1}{2}' = 5000 \text{ lbs}$$

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