

Port

17372. *For Recd 17/11/96*
Sunderland, Nov 1876.

Details of Main Boilers of the Steam Ship

"Lebra" 617 tonsDiameter *11' 7 1/2"*

Length

18-1"

Thickness of shell plates

13 1/32
16

Description of riveting of longitudinal joints

Treble

of circumferential joints

double

Pitch of rivets

ditto

3 7/8"

ditto

2 7/8"

Diameter of rivets

ditto

1

ditto

1

Lap of plating

ditto

6 1/2"

ditto

5 1/4"

Size of manholes in circular shell

15 1/2 x 11"

How compensated for

by a ring 6" x 7/8"

Number of furnaces in boiler

4

Diameter of furnaces

3' 0"

Length of furnaces

6' 2"

Thickness of furnace plates

1/2"

Description of joint of furnaces

lapped and double riveted

Whether strengthened with rings

none

Greatest length between rings

—

Thickness of combustion chamber plating

1/2"

Diameter of screw stays to ditto

1 1/2" over the thread

pitch of stays

8" x 8 1/2"

End plates, thickness

7/8"

Diameter of longitudinal stays to end plates

1 1/4" square

pitch of ditto

17 1/2 x 12"

How stays are secured

to double angle irons 5" x 3 1/2" x 7/8" pins 1 1/8" dia

Diameter of tubes

3 1/2" external dia

pitch of tubes

4 7/8 x 4 7/8"

Thickness of tube plates

3/4"

Stayed by

stay tubes

pitch of stays

14 7/8 x 13 7/8"

Description of steam receiver

dome with a contracted neck

Diameter of ditto

4' 0"

length of ditto

8' 0"

Thickness of plating of ditto

7/16"

ends

9/16"

Ends, how stayed

3 square stays 2 square

$$\text{Shells} = \frac{51520 \times 1 \frac{1}{16} \times 74}{138 \times 6.5} = 71 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}^2}{6 \frac{1}{2} \times 36} = 100 \text{ " " "}$$



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