

18046 Iron

Port

of Newcastle

Run 26/3/79
19th 787

Hulls of Main Boilers of the Steam Ship

"England" 601.04 tons

Diameter

11' 0"

Length

11' 1 1/2"

Thickness of shell plates

13/16"

Position of riveting of longitudinal joints

Double Zigzag lap

of circumferential joints

double Zigzag lap.

Number of rivets

ditto

4"

ditto

3"

Diameter of rivets

ditto

1"

ditto

1"

Thickness of plating

ditto

6"

ditto

4 1/2"

Number of manholes in circular shell

15" x 12"

Whether compensated for

wrought iron ring 5" x 1"

Number of furnaces in boiler

(2) in each

Diameter of furnaces

3' 2"

Length of furnaces

4' 6"

Thickness of furnace plates

1/2"

Description of joint of furnaces

double butt 13/16" rivets x 1 1/8" pitch,

Whether strengthened with rings

None

Greatest length between rings

Thickness of combustion chamber plating

1/2"

Diameter of screw stays to ditto

1 1/8"

pitch of stays

9" x 1 3/4"

End plates, thickness

3/4"

Diameter of longitudinal stays to end plates

2 3/8"

pitch of ditto

14 1/4" x 15 1/2"

How stays are secured

double nuts & washers

Diameter of tubes

3 3/4" outside

pitch of tubes

5 1/4" x 5 1/4"

Thickness of tube plates

3/4 1/2"

Supported by

tube stays

pitch of stays

15 3/4" x 10 1/2"

Description of steam receiver

Cylindrical horizontal fixed between boilers,

Diameter of ditto

5' 0"

length of ditto

4' 4"

Thickness of plating of ditto

1/2"

ends

3/4"

How stays are secured

12 stays

2" dia

with double nuts & washers

Working pressure cylindrical shell,

51520 x 1.6 x 43 = 40 lbs p. sq. inch.

Ditto for stay stay steam space,

14.2 x 15.5 x 65 = 408 lbs.

Ditto Furnace flue,

89600 x .25 = 78 lbs.

Ditto Flat plates between main stays,

120 x 144 = 72 lbs.

Ditto Flat plates combustion chamber,

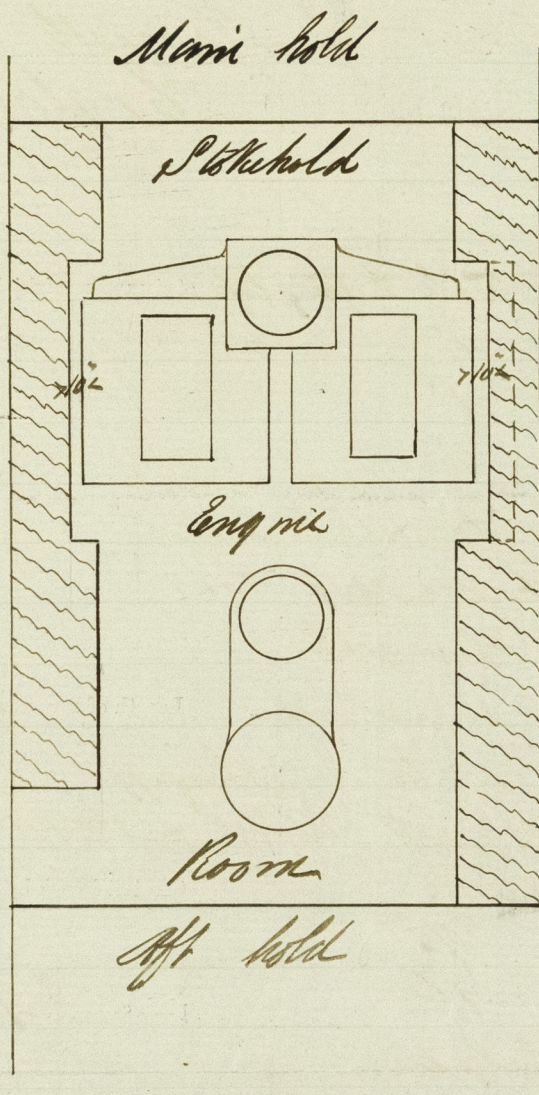
100 x 64 = 78 lbs.

George W. Manuel

Engineer Surveyor to Lloyd's Register of Shipping.

North Shields

Arrangement
of Boilers &
Bunkers
Smallest space
between Bunkers and
Boilers = 10^{ins}



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