

18501 Iron.

Port

of Newcastle May 12th 1877
"Napton Hall" 362 tons

Details of Main Boilers of the Steam Ship

Diameter 14' 9" Length 10' 0"
Thickness of shell plates 1 1/8"
Description of riveting of longitudinal joints do-riveted butt chain of circumferential joints double riveted lap chain
Pitch of rivets ditto 3 1/16" ditto 3 1/4"
Diameter of rivets ditto 1 1/8" ditto 1 1/8"
Lap of plating ditto butt straps 13 1/2" ditto 6"
Size of manholes in circular shell 11" x 15"
How compensated for wrought iron riv 3/4" x 4" three main straps through riv
Number of furnaces in boiler (14)
Diameter of furnaces 3' 0" Length of furnaces 4' 0"
Thickness of furnace plates 1/2" top, 9/16" bottom,
Description of joint of furnaces single lap
Whether strengthened with rings 0 Greatest length between rings 0
Thickness of combustion chamber plating 7/8"
Diameter of screw stays to ditto 1 1/4" pitch of stays 10" x 1"
End plates, thickness 3/4"
Diameter of longitudinal stays to end plates 2 1/2" x 2 1/4" pitch of ditto 16 1/2" x 14 1/2"
How stays are secured double nuts & washers
Diameter of tubes 3 1/2" pitch of tubes 5 x 4 3/4"
Thickness of tube plates 3/4"
Stayed by stay tubes pitch of stays 15" x 9 1/2"
Description of steam receiver Vertical dome contracted neck
Diameter of ditto 3' 6" length of ditto 5' 1 1/2"
Thickness of plating of ditto 7/16" ends 7/16"
Ends, how stayed none Apical mds.

Working pressure cylindrical shells
Ditto " Furnace Flues
Ditto " Main Stays
Ditto " Combustion chamber stays
Ditto " Flat plates main stays
Ditto " ditto - combustion chamber

$27520 + 225 \times 40 = 7066$
 $144 \times 6.5 = 936$
 $89600 \times .25 = 22400$
 $7.0 \times 36 = 252$
 $16.5 \times 14.5 \times 65 = 15525$
 $100 \times 4 \times 65 = 26000$
 $120 \times 144 = 17280$
 $272 \times 100 = 27200$
 $100 \times 100 = 10000$

George W. Munnell

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North Shields