

Port

Newcastle July 28th 1874
 "Liffie" and "Annie" 62.40 tons

Details of Main Boilers of the Steam Ship

Diameter	6' 10"	Length	7' 0"
Thickness of shell plates	1/16"		
Description of riveting of longitudinal joints	lap double riveted	of circumferential joints	lap single riveted
Pitch of rivets	ditto 2 1/2"	ditto	2"
Diameter of rivets	ditto 3/4"	ditto	3/4"
lap of plating	ditto 4 1/2"	ditto	2 1/4"
Size of manholes in circular shell	16" x 11"		
How compensated for	wrought iron ring 4 1/2" x 1/2"		
Number of furnaces in boiler	One		
Diameter of furnace	3' 2"	Length of furnaces	5' 0"
Thickness of furnace plates	3/8"		
Description of joint of furnaces	single riveted lap		
Whether strengthened with rings	None		
Thickness of combustion chamber plating	1/16"		
Diameter of screw stays to ditto	1 1/8"	pitch of stays	10" x 10" fitted with nuts
End plates, thickness	1 1/16"		
Diameter of longitudinal stays to end plates	Gussets 4.9"	pitch of ditto	13" x 21" + 16" wide = 13" x 24"
How stays are secured	by double angle irons 3 1/2" x 3 1/2"		
Diameter of tubes	4"	pitch of tubes	6" x 6"
Thickness of tube plates	9/16"		
Stayed by	Tube Stays	pitch of stays	12" x 12"
Description of steam receiver	Dome		
Diameter of ditto	2' 3"	length of ditto	3' 2"
Thickness of plating of ditto	1/16"		
Ends, how stayed	Spherical man shell stayed by 3 1/2" x 7/2" A. Iron		
Working pressure man cylindrical shell =	51320 x .84 x 10 = 58.8 lb		
" Furnace flue =	82 x 6.5 = 66.0 lb		
" Gussets =	89600 x .14 = 3502 lb		
" Combustion chamber stays =	24 x 13 x 35 = 5555 lb		
" Flat plates man shell stays =	10 x 10 x 55 = 60 lb		
" do combustion chambers =	120 x 49 = 58 lb		

George W. Marshall

Engineer Surveyor to Lloyd's Register of Shipping.

North Shields

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Smallest Space between Bunkers & Boilers
at Sides 9" Forward and 11"
J.W.M.



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Amount of
Travelling E