

17046 *Ln*Rev 2/10/16  
1876

Port

*Glasgow**Sept. 29<sup>th</sup>*

1876

Details of Main Boilers of the Steam Ship *"South Australian"* 353 tonsDiameter *12' 6"* height *14 ft* Length *9' 6"*Thickness of shell plates *15/16"*Description of riveting of longitudinal joints *Double riveted* of circumferential joints *Double riveted*Pitch of rivets ditto *5 1/4"* ditto *5 3/4"*Diameter of rivets ditto *1 1/4"* ditto *1 1/4"*Lap of plating ditto *4 1/2"* ditto *5 1/2"*Size of manholes in circular shell *16" x 13"*How compensated for *By Lat plate 5' x 16"*Number of furnaces in boiler *Four. (fired from one end)*Diameter of furnaces *3' 1"* Length of furnaces *5' 9"*Thickness of furnace plates *9/16"*Description of joint of furnaces *Fitted with double Butt Straps*Whether strengthened with rings *None* Greatest length between ringsThickness of combustion chamber plating *9/16"*Diameter of screw stays to ditto *1 1/4"* pitch of stays *8" x 8"*End plates, thickness *10/16"*Diameter of longitudinal stays to end plates *2 1/4"* pitch of ditto *18" x 18"**" " Cross So " sides 2 1/4"* *one row 14" pitch*How stays are secured *By double Butts*Diameter of tubes *4"* pitch of tubes *5 1/4"*Thickness of tube plates *9/16"*Stayed by *Lubes* pitch of stays *14" x 14"*Description of steam receiver *None*

Diameter of ditto length of ditto

Thickness of plating of ditto ends

Ends, how stayed

*Longitudinal Boiler 4 ft. dia x 7' 6" high plating 7/16  
Single riveted.**James Hollison*

Engineer Surveyor to Lloyd's Register of Shipping.

Foundation

120N468-0227



Formula for Shell  $\frac{57520 \times 1.875 \times 40\%}{148 \times 6.5} = 40 \text{ lbs}$

Formula for flat plates  $\frac{100 \times 49}{64} = 76 \text{ lbs}$

Formula for Gues  $\frac{89600 \times .25}{5.75 \times 37} = 105 \text{ lbs}$

Longitudinal Stays  $2\frac{1}{4}" \text{ dia. } 18" \times 17" \text{ pitch} = 3390 \text{ lbs}$

Cross Stays  $2\frac{1}{4}" \text{ dia. } 17" \text{ pitch one row} = 3390 \text{ lbs}$

*JM*



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