

17475. Iron. Rev 21/12/76

Port

Glasgow Dec 19th 1876

Details of Main Boilers of the Steam Ship

"Radnorshire" 1201

tons

Diameter 10' 6"

Length 14' 0"

Thickness of shell plates $\frac{10}{16}$ "

Description of riveting of longitudinal joints *Welded* of circumferential joints *Double riveted*

Pitch of rivets ditto *3 3/4"*

Diameter of rivets ditto *1"*

Lap of plating ditto *5 1/2"*

No. Size of manholes in circular shell *16" x 12 1/2"*

How compensated for *By angle iron ring 3 1/2" x 3" x 7/16"*

Number of furnaces in boiler *Two in each end*

Diameter of furnaces *3' 0"* Length of furnaces *5' 6"*

Thickness of furnace plates *7/16"*

Description of joint of furnaces *Single butt straps fitted*

Whether strengthened with rings *none* Greatest length between rings *—*

Thickness of combustion chamber plating *7/16"*

Diameter of screw stays to ditto *1 1/4" & 1 3/8"* pitch of stays *9" x 10"*

End plates, thickness *11/16"*

Diameter of longitudinal stays to end plates *2 1/4"* pitch of ditto *15" (One row)*

How stays are secured *By double nuts*

Diameter of tubes *3"* pitch of tubes *4"*

Thickness of tube plates *1 1/16"*

Stayed by *Tubes* pitch of stays *8" x 12"*

Description of steam receiver *Round Longitudinal*

Diameter of ditto *3' 6"* length of ditto *14' 0"*

Thickness of plating of ditto *7/16"* ends *7/16"*

Ends, how stayed *Off Shaped*

Downey Boiler 5' 6" dia x 11 ft high.

17475 Iron

Formulae for Shell $\frac{57520 \times 1.5 \times 40\%}{124.5 \times 6.5} = 66 \text{ lbs.}$

Formula for flat plates $\frac{100 \times 64}{90} = 71 \text{ lbs.}$

Formula for Stues $\frac{89600 \times .25}{5.5' \times 36"} = 113 \text{ lbs.}$

Longitudinal Stays $2\frac{1}{2}"$ dia. 15" pitch (one row)

Jm



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