

19226 Iron

Port

Glasgow Sept 18th 1874
"Galatea" Rec 709/171
1296/1331 tons

Details of Main Boilers of the Steam Ship

Diameter 11' 6" Length 15' 4"

Thickness of shell plates $\frac{13}{16}$ "Description of riveting of longitudinal joints *Double twisted* of circumferential joints *Double twisted*Pitch of rivets ditto $4\frac{3}{4}$ " ditto 4"Diameter of rivets ditto $1\frac{1}{8}$ " ditto 1"Lap of plating ditto $8\frac{1}{2}$ " ditto 5"Size of manholes in circular shell $12' \times 16'$ How compensated for *By angle iron ring*Number of furnaces in boiler *four (two in each end)*Diameter of furnaces $3' 6"$ Length of furnaces $5' 6"$ Thickness of furnace plates $\frac{9}{16}$ "Description of joint of furnaces *Double butt straps fitted*

Whether strengthened with rings _____ Greatest length between rings _____

Thickness of combustion chamber plating $\frac{9}{16}$ "Diameter of screw stays to ditto $1\frac{1}{2}$ " pitch of stays $8\frac{1}{2}' \times 4\frac{1}{2}"$ End plates, thickness $\frac{12}{16}$ "Diameter of longitudinal stays to end plates $2\frac{1}{8}"$ pitch of ditto $15' \times 16'$ How stays are secured *By double nuts*Diameter of tubes $3\frac{1}{4}"$ pitch of tubes $4\frac{1}{2}"$ Thickness of tube plates $\frac{1}{16}' \times \frac{12}{16}"$ Stayed by *Tubes* pitch of stays $13\frac{1}{2}' \times 13\frac{1}{2}"$ Description of steam receiver *One Round Longitudinal Common to both Boilers*Diameter of ditto $5' 6"$ length of ditto $4' 8"$ Thickness of plating of ditto $\frac{1}{16}"$ ends $\frac{12}{16}"$ Ends, how stayed *By Bar Stays $2\frac{1}{8}"$ dia $15' \times 15'$ pitch*

Report (if any) Glasgow No 4313

19226 Iron

Formula for Shell $\frac{51520 \times 1.625 \times 46\%}{136.2 \times 6.5} = 71 \text{ lbs}$

Formula for flat plate $\frac{100 \times 64}{64} = 100 \text{ lbs}$

Formula for Gues $\frac{89600 \times .25}{8.5' \times 42"} = 94 \text{ lbs}$

Longitudinal Stays 28" dia. 15" x 16" pitch = 4149 lbs

PM



© 2019

Lloyd's Register
Foundation