

Port

19206 Iron

Glasgow

"Colina"

Sept. 7th 1897
1297 tons

Details of Main Boilers of the Steam Ship

Diameter 12 ft height 14 ft

Length 9' 3"

Thickness of shell plates 12/16"

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

Pitch of rivets ditto 3" ditto 4 1/4"

Diameter of rivets ditto 1" ditto 1"

Lap of plating ditto Double butt straps 11" x 16" ditto 4 1/2"

Size of manholes in circular shell 16" x 12 1/4"

How compensated for By flat ring 2 3/4" x 1/2"

Number of furnaces in boiler 2

Diameter of furnaces 2' 11 1/2" Length of furnaces 5' 6"

Thickness of furnace plates 9/16"

Description of joint of furnaces Lapped & single riveted

Whether strengthened with rings no rings Greatest length between rings

Thickness of combustion chamber plating 9/16"

Diameter of screw stays to ditto 1 3/8" pitch of stays 8 1/2" x 9"

End plates, thickness 4/6"

Diameter of longitudinal stays to end plates 2' dia pitch of ditto 15" x 16 1/2"

How stays are secured By double nuts

Diameter of tubes 3 1/2" pitch of tubes 4 3/4"

Thickness of tube plates 10/16"

Stayed by Lugs pitch of stays 10" x 10 1/2" + 14"

Description of steam receiver Round Vertical with four Lugs

Diameter of ditto 10' 3" Lugs 3' 3" height of ditto 8 ft

Thickness of plating of ditto About 1/6" ends 10/16"

Ends, how stayed By Lugs & four stays, one between each lug 1 3/8" dia, three anticollapsing rings fitted on Lugs

Report (if any) on Hull of Vessel.

Port Glasgow

No. 14511



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PTO

19206 Iron

Formula for Shell $\frac{51520 \times 1.5 \times 45\%}{14.2 \times 6.5} = 63 \text{ lbs}$

Formula for flat plates $\frac{100 \times 64}{76} = 84 \text{ lbs}$

Formula for Lugs $\frac{89600 \times 20}{5.5^2 \times 36} = 113 \text{ lbs}$

Longitudinal Stays 2" dia, 15" x 16 1/2" pitch = 4800 lbs

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