

18525 Iron

Port

Glasgow May 25th 1878
"Terim" 1015 tons

Details of Main Boilers of the Steam Ship

Diameter 9 ft. Height 14 ft. Length 9' 6"

Thickness of shell plates 3/32"

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

Pitch of rivets ditto 4' 4"

Diameter of rivets ditto 7/8" full

Lap of plating ditto 5"

Size of manholes in circular shell 12" x 16"

How compensated for By angle iron ring

Number of furnaces in boiler Two

Diameter of furnaces 3' 6" Length of furnaces 6' 3"

Thickness of furnace plates 7/16"

Description of joint of furnaces Double butt straps

Whether strengthened with rings Greatest length between rings

Thickness of combustion chamber plating 8/16"

Diameter of screw stays to ditto 1 1/4" pitch of stays 9" x 9"

End plates, thickness 1/16" + 1/16"

Diameter of longitudinal stays to end plates 2" pitch of ditto 16" x 15" + 14"

" " Cross stays 2" Four rows 16" x 16" pitch

How stays are secured By double nut pitch of tubes 4 1/2"

Diameter of tubes 3 1/4" Thickness of tube plates 1/16"

Stayed by Laces pitch of stays 9" x 13 1/2"

Description of steam receiver None

Diameter of ditto length of ditto

Thickness of plating of ditto ends

Ends, how stayed

Formulae for Shell $\frac{18525 \text{ Iron } 57520 \times 0.31 \times 70\%}{107.3 \times 6.5} = .67 \text{ lbs}$

Formula for flat plate $\frac{100 \times 64}{85.5} = 74 \text{ lbs}$

Formula for Lugs $\frac{89600 \times .19}{6' \times 40"} = 40 \text{ lbs}$

Longitudinal Stay 2" dia 16' x 15' pitch = 5000 lbs

JM



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