

16887 Jan

Port

Greenock Aug 18<sup>th</sup> 1876

Details of Main Boilers of the Steam ~~Ship~~ Yacht "Dobhran" 180 tons

Diameter 9' 6" Length 4' 6"

Thickness of shell plates  $\frac{17}{16}$ "

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

Pitch of rivets ditto  $3\frac{3}{4}$ " ditto  $2\frac{3}{8}$ "

Diameter of rivets ditto  $1\frac{1}{16}$ " ditto 1"

Lap of plating ditto 5' 2" ditto 3' 2"

Size of manholes in circular shell 13" x 14"

How compensated for By angle iron lining 3" x 3" x  $\frac{3}{8}$ "

Number of furnaces in boiler Two

Diameter of furnaces 3' 0" Length of furnaces 5' 2"

Thickness of furnace plates  $\frac{7}{16}$ "

Description of joint of furnaces Double butt strapped

Whether strengthened with rings None Greatest length between rings

Thickness of combustion chamber plating  $\frac{7}{16}$ "

Diameter of screw stays to ditto  $1\frac{3}{8}$ " pitch of stays 9" x 8' 6"

End plates, thickness  $\frac{10}{16}$ "

Diameter of longitudinal stays to end plates  $1\frac{3}{8}$ " pitch of ditto 14' 2" x 14' 2"

How stays are secured By double nuts

Diameter of tubes  $2\frac{3}{4}$ " pitch of tubes 4"

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

Stayed by Tubes screwed fitted with nuts pitch of stays 12" x 8"

Description of steam receiver Round vertical with single door

Diameter of ditto 6' 2" door 3' 4' 2" height of ditto 4' 9"

Thickness of plating of ditto  $\frac{10}{16}$ " ends  $\frac{10}{16}$ "

Ends, how stayed By angle iron round door & shell

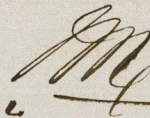
16887 Sw

Formula for Shell  $\frac{57520 \times 1.5 \times 63\% \text{ rivet}}{112.5 \times 6.5} = 65 \text{ lbs.}$

Formula for flat plate  $\frac{100 \times 49}{4.20} = 68 \text{ lbs.}$

Formula for Stues  $\frac{89600 \times .19}{5.16 \times 36} = 91 \text{ lbs}$

Longitudinal Stays  $1\frac{1}{8}" \text{ dia. } 14\frac{1}{2}" \times 14\frac{1}{2}" \text{ pitch} = 4951 \text{ lbs.}$





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