

Iron Screw Steamer No 199

To be classed 100 A.1. at Lloyds as an Auxiliary Tacked Vessel

General Dimensions 172' x 25' x 13'6"

Scale $\frac{1}{2}$ Inch to one Foot

Numerals & Proportions

13/5/73

16/12/8

Half Breadth 12.5
Depth as per Rule 14.92
Half Girth 23.68

Depths in Length 11.5
Breadths 6.9

No for Frames 31.1
Length as per Rule 172.6
No for Plating 8819.86
Equipment 10289.83

Stringer plate 21 x $\frac{3}{8}$ x 16 x $\frac{3}{16}$
Angle Iron 3 x 2 x $\frac{3}{8}$

Awning Deck 2 1/4 thick

A.P. Beams 3 x 3 x $\frac{1}{2}$ A.S.
4 1/2 deep

Awning Deck Stanchions 2 1/4

Spaced according to Rule

Keel 7" x 2" Scarphs 20" long
Stem 7" x 2" at Keel 6 1/2 x 1 1/8 at 11 ft; 5 x 1 1/8 at head
Stern Posts 7 x 3 1/2
Rudder Stock at head 4 1/4 at heel 2 1/8; Plating 1/4 thick
Rudder made to ship & unship while afloat
Frames spaced 21" from centre to centre to be of 3 x 3 x $\frac{3}{8}$
A.S. for 3/5 length amidships & 3 x 3 x $\frac{3}{16}$ for remainder
All the Frames to extend up to Awning Deck
Keel pieces as per Rule
Reverse Angle Iron 2 1/2 x 2 1/2 x $\frac{1}{16}$ to extend across every
Floor & up every Frame to upper part of Upper
Bilge Stringer & to 4 1/2" above H.P. Beams alternately
Double in way of Engines & Boilers & under
Keelsons 8 x $\frac{1}{16}$ Deck plating 3/8
Stringer plate 3 1/2 x $\frac{1}{16}$ to 20 x $\frac{3}{8}$
Angle Iron 3 1/2 x 3 x $\frac{3}{8}$

No. 9. Yellow pine 3/4 thick

No. 9. Beams of 6 x $\frac{1}{8}$ T Bulled Iron reduced at ends of wood according to Rule
Keelways etc according to Rule

Lower Deck Stanchions 2 1/8

Spaced according to Rule

Bulkhead plates 1/4 thick, Stiffened by 2 1/2 x 2 1/2 x $\frac{5}{16}$
A.S. spaced 30" from centre to centre & also
by 3 x 3 x $\frac{3}{8}$ A.S. placed horizontally according
to Rule
Shaft Tunnel plating 1/4 thick under Hatch 3/8 thick, stiffened
by A.S. according to Rule.

Shell plating

Starboard Strake reduced 1/16 at fore end only.
2nd 3rd 4th 6th & 7th Strakes reduced 1/16 for 1/4
vessels length at each end
4th Strake reduced 1/8 for 1/4 vessels length
at each end; 5th Strake 1/16 for 1/8 vessels length on each side
6th of midship 1/16 and 1/8 at ends of vessel.
Boss plates 1/16

Butt Straps of Shell Stringer & Ice plates Stringer plates 21 x $\frac{3}{8}$ x 16 x $\frac{3}{16}$
Angle Iron 3 x 3 x $\frac{3}{8}$

L.D. 2 1/2 Yellow Pine laid in hatchway & riveted. H.P. 3 1/2 x 3 x $\frac{1}{2}$

Hold Beams 9 x 4 1/2 not less than required by Rules
except in C.B. Space where the Stringer plate
will be strengthened as required by Rule

Equipment

	cut qrs lbs	
2 Power Anchors each	12" 0" 0	Coc 9
1 Op	10" 1" 0	Stock 9
1 Steam Op	5" 0" 0	Inc 9
1 Rods Op	2" 2" 0	Stock 9
1 Op	1" 1" 0	
195 Fath 1 1/16 Stud Chain Cable		A.S. 3 1/2 x 3 x 1/2
90 1 1/16 Steam Chain or 9" Rope		7/16 to 3/8
90 5/4 Hawser		

Centre Keelson Bulk plate
6 x $\frac{1}{16}$ 3/8
A.S. 3 1/2 x 3 x $\frac{1}{2}$

Int. vertical plate
18 x $\frac{3}{8}$ to $\frac{1}{16}$

Floor plates 1 1/2" thick at centre line
1 1/2" thick out of 9/2 length
amidships to be 3/8 thick at ends

Garboard Strake
30" broad
3/16 to 1/2 thick
at fore ends

Wood Plating
A.S. 5 x 2 1/2 x $\frac{1}{16}$ for
3/5 length
3/2 x 3 x $\frac{3}{8}$ at ends

Butt Straps 1/16 thicker than
plates for 1/2 length

5/16

2 1/2 x 3/4

5/16

2 1/2 x 3/4

Sheer Strake
33" broad
1/2" thick

Butt Straps 1/16 thicker
than plates for 1/2
length amidships

7/16 to 3/8

7/16 to 3/8

2 1/2 x 3/4

2 1/2 x 3/4

L.D. Stringer
in Engine & Boiler
space
7/16 to 3/8

A.S. 3 1/2 x 3 x 1/2
supported by
Bracket Plates
spaced 42" apart

7/16 to 3/8

CAIRD & CO

© 2021

ENGINEERS & IRON SHIPBUILDERS

GREENOCK

Lloyd's Register
Foundation