

STEEL SCREW STEAMER

Dimensions

Length overall	= 255.5
Length waterline	= 174.4
Width	= 23.2
Depth	= 8.4
Freeboard	= 5.4
Breadth of hull	= 18.41
Length of keel	= 20.33

MIDSHIP SECTION

Class 100. A. 1. at Lloyds Spec & Rule Steel

Guns 6 $\frac{1}{2}$ " + 23.49 + 13.41 = 60.31 Liverwhisk
 80 " + 80 " + 20 " = 250 " 174.40 m. long distance
 18 " + 18 " + 24.33 x 2.88

Proportions 288.5 : 36.82 = 7.85 9' mid. breadth
 80 " : 21.25 = 3.7 Depth to Spar 9'
 80 " : 13.41 = 5.91 Depth to Gun deck

Roof, Bridge and Forecastle Lee Plates 12" x 7/8", Butts overlapped 5" and D.R.
 Do 80 " Decks of Yellow Pine 5" x 3"

Beams Roof and Bridge Single Angle 7" x 3" x 7/8, Thick 18" } on alternate frames
 Forecastle Bulk 7" x 7/8, Angle 3" x 3" x 7/8, Thick 18" }

Kul 8" x 2 3/4" Scarfs 24" wide long
 Stem 8" x 2 3/4" flat lead line tapering to 6" x 2 3/4" flat head
 Stem Post 8 1/2" x 5", below bows and 4 ft along Kul 12" x 5", Head 6 1/2" x 5"
 Rudder, Stock 6 1/2", Heel and Pinions 3 1/2", Plating 5/8" Steel

Flat of deck of Yellow Pine 5" x 3 1/2" over outside stroke
 Do 80 " 5" x 3 1/2" over inside stroke and stern on iron
 Steel Deck for 2 length 6 ft, Butt stripes 8" x 7/8" Double Riveted
 The plates at bow and stern 15" x 7/8" to 7/8" Butts overlapped 5" and D.R.
 Landings 2 1/2"

Beams 7 1/2" x 7/8" Bulk Single 3" x 3" x 7/8, Thick 19" on alternate frames
 Hatch Beams Bulk 9" x 7/8, Single angle 5" x 4" x 7/8

Frames 5" x 5" x 7/8" for 2/3 length to the extending to Spar, Roof, Bridge and Forecastle, Do respectively. Spaced 22 inches C.C. to C.C.

Frames Reversed Frames 4" x 3" x 7/8" extending to stem and 8 1/2" on alternate for
 Do scarf length amidships, Before and above half length all to
 Do 15" thick

Hull Plate 20 " x 7/8" for 2/3 length to the stern to 2" under Engine Room and below
 Bulkheads Plates 6 1/2" and 7 1/2" Stiffener 4" x 3" x 7/8 spaced 30" apart

Pillars 2 1/2" dia Steel Deck 7/8" for 2/3 length to 7/8" at ends, Butts overlapped 5" and Double Riveted
 Do 7/8" for 2/3 length from middle overlapped 5" and Single Riveted
 Landings 2 1/2"

Beams 9" x 7/8" to 1/2" Bulk Angle 3 1/2" x 3" x 7/8

Equipment 2 1/2" dia Chain 30 cwt or Stock
 1 Stream 80 " 9" " "
 1 Ledge 80 " 4 1/2 " "
 1 80 " 2 1/2 " "
 Pillars 3 1/2" dia 270 fathoms of 1 1/8" Steel Chain Cable
 75 " f 1/4 " Stream Chain
 90 " f 11 " Hemp or 3" Steel Wire
 90 " f 9 " Do or equivalent wire
 90 " f 7 " Do 80 " 80 "

All Tested According to Rule

Center Keelson Vertical Plate 21" x 7/8" for 2/3 length to 17" x 2" stern, Butt
 Do 80 " 80 " Straps Double 16 1/2" x 7/8" Double Riveted
 Do 80 " Angles 5" x 4" x 7/8" for 2/3 length to 80 "
 Do Hull Plate extending 7/8" length 10 1/2" x 7/8" for 2/3 length to 80 "
 Do Butt over stern 9" and Single Riveted
 Side Keelson Port center Plate 21" x 7/8" for 2/3 length to 80 "
 Do 8 " Angles 5" x 4" x 7/8" for 2/3 length to 80 "
 Do 11 " 2 1/2 " 7/8" Single Riveted
 Do 11 " 2 1/2 " 7/8" Single Riveted
 Do 11 " 2 1/2 " 7/8" Single Riveted
 Side Stringer 10 1/2 " x 7/8" for 2/3 length to 7/8" at ends
 Do Int. angled Angle 5" x 4" x 7/8" for 2/3 length to 7/8 "

Double Riveted Landing 5 1/2" wide

48" x 17/8" for 2/3 length to 7/8" at ends

Side Stringers Plate 10 1/2 " x 7/8" for 2/3 length to 7/8" at ends
 Do Int. angled Angle 5" x 4" x 7/8" for 2/3 length to 7/8 "

Double Riveted Landing 5 1/2" wide

46 " 17/8" for 2/3 length to 7/8" at ends

Double Riveted Landing 5 1/2" wide

Edge Stringer Plate 10 1/2 " x 7/8" for 2/3 length to 7/8" at ends
 Do Int. angled Angle 5" x 4" x 7/8" for 2/3 length to 7/8 "

Double Riveted Landing 5 1/2" wide

about 46 " x 17/8" for 2/3 length to 7/8" at ends

Butts of Shell Platting of all outside strokes to be Double Riveted with stripes 5/8" thicker than plates for 2/3 length
 Remaining Double Riveted except 1 stroke which is to be Single Riveted same as Middle strakes.
 Before and Aft Half Length all Double Riveted

Butts All outside strokes exceeding 40" in breadth
 and within 2/3 length to hand stripes 5/8" thicker than plates and Single Riveted. Before and aft half length all Double Riveted

Next: Stephen & Sons

BUILDERS & ENGINEERS

T. A. S. G. D. W.

DRAWING NO. 5360

15/3/91

10030

SCALE: 1 INCH TO A FOOT

Plating The plates forming bow are to be 3" thicker than their
 strokes amidships. Remaining 2 after heads of plating
 to be same thickness as their strokes amidships. All the
 butts below the outer to be Single Riveted in the neighbourhood
 of the stem post with stripes 5/8" thicker than plates

Material The Kul, Stem, Stem Post, Rudder, 14 Cd Pillars, Shaft Tunnel, Coal Bunker,
 Engine & Boiler Casting, Hatch Plates, Piping, & The Bulkheads, Bulkhead
 Lumes, Upper 8", Engine Works, Casing and the Rims to be of Iron
 other material on this Section of Steel unless otherwise specified.



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Alexander Stephens.

No 335



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