

Midship Section

Pennoldson's 166

Steel Screw Tug

Class 100 A1

Dimensions 135 x 24 x 14.5 md



Scale $\frac{3}{4}$ - one foot

20.5.95
5.12.95

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 J. P. PENNOLDSON & SONS
 ENGINEERS AND SHIP BUILDERS
 SOUTH SHIELDS

20/5/95

Material All Steel excepting Keel Stem Sternframe Rudder Pillars Bunkers Engine & Boiler seats
Hatchways liners & rivets

Keel plate $4 \times \frac{5}{16}$ ends $\frac{5}{16}$

Proportions

Breadths 5.5
Depths 8.9

$\frac{1}{2}$ Breadth 12.0
 $\frac{1}{2}$ Girth 22.58
Depth as per rule 15.0
49.58 x 134 = 6643.42

Note

Steel Ships Par 6 Sec 2

This vessel is intended for towing & passenger service
No cargo capacity 60 efficient of fitness block 48
Free board : minimum 4.0 usual working time 5.0

Frames $3 \times 3 \times \frac{5}{16}$ for $\frac{3}{8}$ length $3 \times 3 \times \frac{5}{16}$ ends spaced 21" throughout
Reverse frames $2 \frac{1}{2} \times 2 \frac{1}{2} \times \frac{5}{16}$ on every frame & floorplate extending across middle line to & carried up to bilge stringer & gunwale alternately to be double in engine & boiler spaces
Bulkheads $\frac{5}{16}$ top & bottom Single frames on tank bulkheads of extra size
Solid pillars $2 \frac{1}{2}$ fitted where practicable
Floors $14 \times \frac{5}{16}$ for $\frac{3}{8}$ length $\frac{3}{16}$ ends $\frac{1}{2}$ thicker under Engines $\frac{5}{16}$ thicker under boiler
Rudderhead $4 \frac{1}{2}$ Heel & Pintles $2 \frac{1}{2}$
Deck deck $2 \frac{1}{2}$
Deck beams $6 \times 3 \times \frac{7}{16}$
Buttstraps of Stringerplate Sheerstrake & one strake at bilge for $\frac{1}{2}$ length amidship to be $\frac{5}{16}$ thicker than the plates they connect & double rivetted

Stringer plate $28 \times \frac{5}{16}$ ends $19 \times \frac{5}{16}$

Stringer bar $3 \times 3 \times \frac{5}{16}$

$\frac{3}{16}$ $\frac{1}{2}$ length $\frac{5}{16}$ ends

$\frac{3}{16}$ Double rivetting

$\frac{3}{16}$ $\frac{1}{2}$ length $\frac{5}{16}$ ends

$\frac{3}{16}$ Single rivetting

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$\frac{3}{16}$ Double rivetting

$\frac{3}{16}$ throughout

Keel $4 \times \frac{5}{16}$

Stem $6 \frac{1}{2} \times \frac{5}{16}$

Sternframe $6 \frac{1}{2} \times 3 \frac{1}{4}$

J.P.
20/5/95



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Foundation

Renoldson & Sons
55 Champion
Ave Apt No 32702

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29 APR 1974
FONDO 100

2201302

all's noblest

1976
Ward
NW

022100 H

22 x 28 1/2

$\frac{960}{8} = 120$

[illegible]

2 15x1/50
1000 p/s 2x11x1/50

$\frac{8\sqrt{2}}{9} \times \frac{\pi}{6} = 1.097$

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40-28-121#	pp 22-25
40-28	40-28
10-14 ae box inc	12-0
11-11#	53-28
12-19 ex 44#	15-0

[illegible]