

30-4-20.

| PARTICULARS FOR FREEBOARD    |                    |  |
|------------------------------|--------------------|--|
| REG. LENGTH APPROX           | 260' 0"            |  |
| " BREADTH "                  | 37' 67"            |  |
| " DEPTH "                    | 16' 45"            |  |
| UNDER DECK TONNAGE           | 1323 TONS          |  |
| SHEER AT STEM                | 84 INCHES          |  |
| " " $\frac{1}{8}$ FROM STEM  | 46 $\frac{1}{2}$ " |  |
| " " STERN                    | 40 "               |  |
| " " $\frac{1}{8}$ FROM STERN | 82 "               |  |
| RAISED QUARTER DECK          | 153.16 x 4' 0 FT.  |  |
| BRIDGE ON QUARTER Dk         | 51.75 x 7' 0 "     |  |
| FORECASTLE                   | 28.50 x 7' 0 "     |  |

BRIDGE SIDE PLATING '34"  
FORECASTLE " '34"

RAISED QTR. Dk. STRINGER 66"x54" FOR  $\frac{1}{2}$ L TO 25' x 36" AT END. BUTTS LAPPED & TREBLE RIVETED  
STRINGER ANGLE 4"x4"x48 TO 3"x3"x36 AT END  
3" SEAM  $\frac{7}{8}$  RIVETS

RAISED QUARTER DECK SHEER STRAKE 52"x58"  
FOR  $\frac{1}{2}$ L TO 40' AT ENDS. BUTTS LAPPED AND TREBLE RIVETED  
54" SEAM  $\frac{7}{8}$  RIVETS

H  
54" TO 44"  
40" IN AFTER PEAK

G  
54" TO 44"  
40" IN AFTER PEAK

F

E

D

BRIDGE DECK STRINGER PLATE 40"x34"  
" " " ANGLE 3"x3"x34"  
" " PLATING '24"

BEAMS STOP AT TOE OF FRAMES

BRIDGE DECK BEAMS 5 $\frac{1}{2}$ "x3"x36" B.A. EVERY FRAME. KNEES 14"x34" (4 $\frac{3}{4}$ " RIVETS)  
FORECASTLE " " 6 $\frac{1}{2}$ "x3"x50" B.A. ALTERNATE FRS. KNEES 19"x40" (5 $\frac{3}{4}$ " RIVETS)  
8 $\frac{1}{2}$ "x7"x52" B.A. reduced at end.

RAISED QUARTER DECK PLATING '32" OR '35" IRON. BUTTS LAPPED & DOUBLE RIVETED FOR  $\frac{1}{2}$  LENGTH TO SINGLE AT ENDS  
BRIDGE SIDE FRAMES 5"x3"x40" ANGLES 3" WOOD COVERS

FOR PARTICULARS OF HATCH WEBS SEE SEPARATE PLAN  
KNEES 21"x21"x40"  
7"x3"x40" B.A.

RAISED QUARTER DECK BEAMS 7"x3"x38" B.A. EVERY FR. KNEES 20"x40" (5 $\frac{3}{4}$ " RIVETS)  
" " " HALF " 6 $\frac{1}{2}$ "x3"x36" B.A. " " " 20"x40" (5 $\frac{3}{4}$ " " )  
" " " HALF " 5 $\frac{1}{2}$ "x3"x40" B.A. " " " 20"x40" (5 $\frac{3}{4}$ " " )  
IN WAY OF LARGE HATCHWAYS  
RAISED QUARTER DECK HALF BEAMS IN WAY OF LARGE BRACKETS 3"x3"x38"  
" " " HATCH END BEAMS 7"x3"x38" B.A.

LARGE BRACKETS '38" SPACED AS PER ELEVATION IN LIEU OF HOLD PILLARS  
FRAMES IN WAY OF R. QUARTER DECK 9"x3"x52" B.A. SPACED 27" APART  
FRAMES IN ENGINE & BOILER SPACE 9"x3"x52" B.A. IN LIEU OF WEB FRAME

NUMERICALS  
BEAM 37.5  
DEPTH 18.58  
TRANSVERSE No 56.08  
LENGTH 260  
LONGITUDINAL No 14580

DEPTH MLD 18.58  
R. QTR. Dk. 4.00  
22.58  
DEPTH OF TANK 3.42  
d (R. QUARTER Dk) 19.16

DEPTH MOULDED 18.58  
DEPTH OF TANK 2.92  
d (UPPER DECK) 15.66

DEPTHS TO LENGTH :- 1/51 TO RAISED QTR DECK AND 13/99 TO U.DK.

CENTRE GIRDER 41"x44" TO 36" IN WAY OF AFTER HOLD.  
" " 35"x44" TO 36" 54" IN BOILER SPACE.  
BUTTS LAPPED AND TREBLE RIVETED ALL FORE & AFT.  
TOP BAR 4"x4"x50" FOR  $\frac{1}{2}$ L TO 46" AT ENDS SINGLE ANGLE  
DOUBLE FORWARD OF  $\frac{3}{8}$ L & UNDER ENGINES 3"x3"x40"  
BOTTOM BARS 4"x4"x50 FOR  $\frac{1}{2}$ L TO 46" AT ENDS. DOUBLE.

GUSSETS '40" EVERY 4TH. FRAME IN WAY OF RAISED QUARTER Dk.

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

# MIDSHIP SECTION

OF STEEL SCREW STEAMER TO CLASS

100 A. 1. AT LLOYDS

PRINCIPAL DIMENSIONS  
LENGTH B.P. 260' 0"  
BREADTH MLD 37' 6"  
DEPTH MLD 18' 7"

SCALE  $\frac{1}{2}$ " = 1 FOOT

UPPER DECK PLATING '34" FOR  $\frac{1}{2}$ L TO 30" AT END BUTTS LAPPED & DOUBLE RIVETED FOR  $\frac{1}{2}$  LENGTH SINGLE RIVETED AT END

3" WOOD COVERS

7"x3"x40" B.A.  
2" DIA WROT STEEL  
BULB PLATE 8"x40"

FOR PARTICULARS OF HATCH WEBS SEE SEPARATE PLAN.  
DOUBLE LOGS

CAMBER 9 $\frac{1}{2}$ "

UPPER DECK BEAMS 7 $\frac{1}{2}$ "x3"x40" B.A. EVERY FRAME KNEES 21"x40" (5 $\frac{3}{4}$ " RIVETS)  
" " " HALF " 6 $\frac{1}{2}$ "x3"x40" " " " ( " " " )  
" " " 5 $\frac{1}{2}$ "x3"x34" " " " KNEES 21"x40" (5 $\frac{3}{4}$ " RIVETS) IN WAY OF HATCHWAYS  
" " " HATCH END BEAMS 7 $\frac{1}{2}$ "x3"x40" B.A.  
" " " HALF BEAMS IN WAY OF LARGE BRACKETS 3"x3"x38"

LARGE BRACKETS '38" SPACED AS PER ELEVATION FITTED IN LIEU OF HOLD PILLARS

FRAMES 8"x3"x44" B.A. SPACED 27" APART 23" FOR  $\frac{1}{2}$  OF No 103 FRAME  
FRAMES IN FORE & AFTER PEAKS 5 $\frac{1}{2}$ "x3"x40" SPACED 23" APART

STEM 7 $\frac{1}{2}$ "x2 $\frac{1}{2}$ " PROPELLER POST 7 $\frac{1}{2}$ "x5 $\frac{1}{2}$ " RUDDER POST 6 $\frac{1}{2}$ "x5 $\frac{1}{2}$ "

TANK TOP CENTRE STRAKE  $\frac{5}{8}$ " THICK  $\frac{7}{8}$ " IN ENGINE ROOM  
" " IN HOLDS  $\frac{5}{8}$ " THICK  
" " IN BOILER SPACE 48

EDGES OF CENTRE STRAKE SINGLE RIVETED, BUTTS LAPPED & DOUBLE RIVETED  
" " TANK TOP PLATING SINGLE RIVETED, BUTTS LAPPED & DOUBLE RIV. FOR  $\frac{1}{2}$ L SINGLE ENDS  
FLOOR PLATES '34" IN BOILER SPACE 42 EVERY FRAME

SIDE GIRDERS '32" " " 42 (NO FLANGED IN WAY OF E & B SPACE NOR FOR  $\frac{1}{2}$ L)  
FRAME BOTTOMS & REVERSE FRAMES 3"x3"x34"  
SIDE GIRDER ANGLES & VERTICAL ANGLES ON CENTRE GIRDER 3"x3"x32"  
DOUBLE REVERSE FRAMES ON FLOORS IN ENGINE ROOM 3"x3"x32"

TO BEYOND SIDE GIRDER, ALSO UNDER BOILER BEARERS 3"x3"x42  
ALL ANGLE BARS IN BOILER SPACE, EXCEPT THOSE ATTACHED TO OUTSIDE PLATING  
TO BE INCREASED '10" WHERE NOT SHOWN INCREASED

NO CEILING ON TANK TOP

DOUBLE IN E & B. SPACE  
21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

21"x15"

EQUIPMENT  
LONGITUDINAL No = 14580  
RAISED QTR. Dk 153.16 x 4' = 612.64  
BRIDGE 51.75 x 7' 75 = 272.00  
FORECASTLE 28.50 x 7' 75 = 150.00  
EQUIPMENT No = 15614.64

2 BOWER ANCHORS STOCKLESS 33 cwt (94 cwt)  
1 " " " 28 " TOTAL  
1 STREAM ANCHOR (EX STOCK) 8 $\frac{1}{2}$ "  
1 KEEDGE " ( " ) 4 $\frac{1}{2}$ "  
240 FATHOMS  $\frac{1}{16}$ " STUD CHAIN CABLE  
75 "  $\frac{1}{16}$ " STREAM CHAIN OR 4 $\frac{1}{2}$ " STEEL WIRE  
90 " 11" HEMP OR 3 $\frac{1}{2}$ " STEEL WIRE  
2 OF 6" & 2 OF 5" WARPS EACH 80 FATHOMS

UPPER Dk. STRINGER 66"x60" FOR  $\frac{1}{2}$ L TO 25' x 36" AT END  
BUTTS LAPPED AND TREBLE RIVETED  
STRINGER ANGLE 5"x5"x60" FOR  $\frac{1}{2}$ L. 3"x3"x36" AT END.

3" SEAM  $\frac{7}{8}$  RIVETS

BEAMS STOP AT TOE OF FRAMES

SHEER STRAKE 42"x74" FOR  $\frac{1}{2}$ L TO 40" AT ENDS  
DOUBLED AS PER ELEVATION

BUTTS LAPPED & QUAD RIVETED FOR  $\frac{1}{2}$ L TREBLE WHERE 68"  
6" SEAM 1" RIVETS

G

BUTTS LAPPED & TREBLE RIVETED.

54" SEAM  $\frac{7}{8}$  RIVETS

F = 66"x54" TO 44" 40" WHERE RULE SPACING

54" SEAM  $\frac{7}{8}$  RIVETS

E = 64"x54" TO 44" 40" WHERE RULE SPACING

54" SEAM  $\frac{7}{8}$  RIVETS

MARGIN PLATE '36" IN BOILER SPACE 46"

BUTTS LAPPED AND DOUBLE RIVETED  
MARGIN ANGLE 3 $\frac{1}{2}$ "x3 $\frac{1}{2}$ "x36"

D = 51"x54" TO 44" 40" IN WAY OF RULE SPACING

54" SEAM  $\frac{7}{8}$  RIVETS

3" RISE OF FLOOR

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

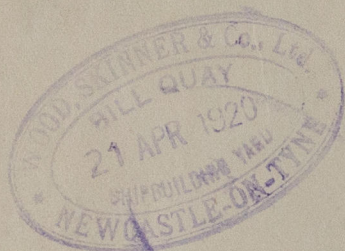
54" SEAM  $\frac{7}{8}$  RIVETS

54" SEAM  $\frac{7}{8}$  RIVETS

WOOD, SKINNER & CO. LTD.  
SHIPBUILDERS  
NEWCASTLE-ON-TYNE

No 225%





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$$\begin{array}{r} 2 \times 5 \\ 25 \\ 32 \\ \hline 2 \end{array} \quad \begin{array}{l} : 6 = 4 \frac{2}{3} \end{array}$$



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1.  
WOOD. SKINNERS. No 225.

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MIDSHIP. SECTION

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BIFROST

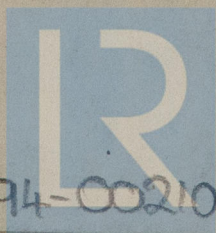
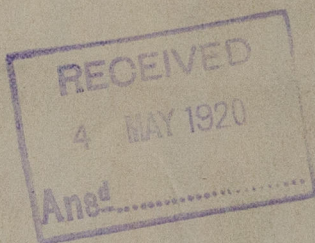
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J. P. ROTH

NEWCASTLE ON TYNE.

Report No. 76306

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