

SUNDERLAND SHIPBUILDING CO. LTD.
DRAWING OFFICE.
No. 8968 24 FEB. 1905
SUNDERLAND.

—MIDSHIP SECTION—

—Nº 233^s/_s—

LENGTH B.P. ----- 370'-0"
BREADTH ----- 50'-0"
DEPTH M^{LD} ----- 27'-9"
SCALE 1/2" = 1 FOOT.

—F'CLE—

STRINGER ANGLE ----- $3 \times 3 \times \frac{7}{30}$
WATERWAY BAR ----- $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{7}{30}$
STRINGER PLATE ----- $2\frac{1}{2} \times \frac{7}{30}$ BUTTS DOUBLE
DECK ----- $5 \times 3 \times \frac{7}{30}$ PITCH PINE ✓
BEAMS ----- $9 \times 3\frac{1}{2} \times \frac{10}{30}$ BAY $3 \times 3\frac{1}{2} \times \frac{8}{30}$ ANGLE X
PILLARS ----- $2 \times 2 \times \frac{10}{30}$ DIA ✓
SIDE PLATING ----- $\frac{1}{30}$

— POOP —

SECTION _____

STRINGER ANGLE _____ $3' \times 3' \times 20$ ✓

" PLATE _____ $33/4" \times 30$ BUTTS DOUBLE ✓

DECK _____ $7/20$ STEEL BUTTS SINGLE ✓

BEAMS _____ $8' \times 31' \times 70$ BA 50APART ✓

PILLARS _____ 12×3 DIA: ✓

SIDE PLATING _____ $1/2 \times 10$ ✓

— EQUIPMENT

| | | | | |
|-----|---------|----------|------------------|--|
| 1 | POWER | ----- | 56 $\frac{1}{2}$ | CWTS. STOCKLESS |
| 1 | " | ----- | 54 | " " |
| 1 | " | ----- | 49 $\frac{3}{4}$ | " " |
| 1 | STREAM | ----- | 15 | " EX STOCK |
| 1 | KEDGE | ----- | 65 | " " " |
| 270 | FATHOMS | ----- | 216 | STUD CHAIN CABLE |
| 90 | " | --- | 116 | STREAM CHAIN OR 4 $\frac{1}{2}$ STEEL WIRE |
| 120 | " | --- | 13 | HEMP OR 4 $\frac{1}{2}$ STEEL WIRE |
| 90 | " | (2 OF T) | WARPS | OR 22 STEEL WIRE |
| 90 | " | (2 OF T) | " | " " " |

— PROPORTIONS

DEPTHS TO LENGTH ----- 12.8
BREADTHS " " ----- 7.5

- NUMERALS

| | | |
|---|---------|-------|
| 1 | BREADTH | 24.87 |
| 2 | DEPTH | 28.75 |
| 3 | GIRTH | 50.01 |

$$103.63 \times 368.17 = 38,153$$

$$96.63 \times 368.17 = 35,576$$

- ERECTIONS

| | |
|--------|-------|
| POOR | 25.0 |
| BRIDGE | 100.0 |
| F'CLE | 37.0 |

$$\begin{array}{r} \checkmark 162 \times 7 \times \frac{1}{2} = 1701 \checkmark \\ \text{HOUSES } 48 \times 7.25 = 348 \checkmark \\ 38153 \end{array}$$

EQUIP^T NUM^T 40,202 ✓ LETTER X

19.4.05
8.5.05
1.6.05

STRINGER 43E x 20
BUTTS LAPPED & TREBLE RIVETED

STEEL DECK 20 BUTTS
LAPPED & DOUBLE RIVETED
1/20 WHERE EXPOSED

7/20 COAMING

BRIDGE SIDE 20
INCREASED 3/20 INSTEAD OF
DOUBLING SHEER
BUTTS TREBLE & LAPPED

DOUBLING AT CORNERS
OF HATCHWAYS

DOUBLE LANDINGS FOR FULL
LENGTH OF BRIDGE

STRINGER 58 x 20 TO 45 x 20
INCREASED 7/20 FOR 1/20 FOR PROP
BUTTS LAPPED & TREBLE RIVETED
FORE & AFT

4 x 4 x 20
5 x 5 x 20 IN WALLS

BEAMS 82 x 25 x 1/20 BA 25' APART (UNDER 48 FT.)
REDUCED TO 30 x 25 x 1/20 WHERE LESS THAN 2/3 LENGTH OF A BEAM.
KNEES 3 TIMES DEPTH
OF BEAM

BEAMS IN WAY OF BRIDGE WHERE COAL OR CARGO IS CARRIED 82 x 25 x 1/20 BA
HATCH END BEAMS 12 x 20 BULB & 6 x 4 x 1/20 ANGLE

Half beams clear of bridge 75 x 3 x 1/20 B.A.
STRONG BEAMS IN E & B SPACE 12 x 20 BULB
& 4 ANGLES 5 1/2 x 4 x 1/20

NOTE:- BEFORE THE 3/51 THE RIVETS IN THE
LANDING EDGES OF THE STRAKES OF PLATING
FORMING THE PLAT OF THE BOTTOM TO BE SPACED
NOT MORE THAN 4 DIAS. APART. THE RIVETS IN THE
PLATING & FRAMES IN WAY OF SAME TO BE SPACED
NOT MORE THAN 6 DIAS. APART.

THIS STRINGER 42 x 20 IN.
BOILER SPACE ONLY, WITH DOUBLE
ANGLES 4 x 5 1/2 x 20 ON INNER EDGE & 20 FACE PLATE

STRINGER 60 x 20 TO 45 x 20
BUTTS LAPPED & TREBLE RIVETED
OR PLACED WITH
A PLATING SURFACE

11 x 3 1/2 x 20 B.A.

FRAMES 9 x 3 1/2 x 1/20 BULB ANGLES 25' APART
FRAMES AT ENDS OF SHIP 5 1/2 x 3 1/2 x 1/20 OR 6 1/2 x 3 1/2 x 1/20 B.A.
REV " " " " 4 x 3 1/2 x 3/8 (ALT. REVERSES TO FOLE DK.)

PILLARS IN HOLDS 5 DIA PILLARS IN TWEEN DKS 2 1/2 DIA OR H SECTION

FLOORS AT ENDS OF SHIP 20 TRANSVERSE FLOOR 43 1/2 x 20

FLOORS IN TANK 8 x 20 IN BOILER SPACE (ON EVERY FRAME)

STEM BAR 11 x 3 STERNFRAME 11 x 7 RUDDER HEAD 9 1/2 PINTLES 4 1/2 HEEL 7 DIA SINGLE PLATE

BULKHEAD & WEB FRAME ANGLES 5 1/2 x 3 1/2 x 20

RIVETS 6 DIAS. APART TRO FRAMES & OUTSIDE PLATING
IN WAY OF DEEP TANK & FORE & AFTER PEAK TANKS

BULKHEADS 20 (PLAN STIFFENING SEE PROFILE)

DEEP TANK LONGITUDINAL BH'S 4 x 20 IN 20 FLANGES

2 1/2 CEILING IN HOLDS

3 GIRDERS UNDER
ENGINES EACH SIDE OF
CENTRE LINE

STRONGER PLATE 21 x 20
FACE ANGLE 6 1/2 x 4 1/2 x 20
6 x 3 1/2 x 3/8 OR PLACED
WITH A PLATING SURFACE

LUGS 4 1/2 x 3 1/2 x 20
2 RIVETS IN EACH FLANGE

WEB FRAMES 21 x 10-9
WITH 6 1/2 x 4 1/2 x 20 FACE ANGLE
FOR SPACING SEE PROFILE

1/2 DIAMONDS 45 x 12 x 20

TANK MARGIN 5 1/2 x 20 IN B SPACE
REDUCED TO 3 1/2 x 20 BEFORE 1/20 FOR 1/20

24' APART 3/51 AFT

BUTTS LAPPED & DOUBLE RIVETED
LUGS IN WAY OF GUSSETS 4 1/2 x 3 1/2 x 20

GUSSET PLATE EVERY
4' FRAME 4 1/2 x 10 or gusset
plates

TANK TOP PLATING IN HOLDS 5 1/2 x 20
20 IN E SPACE & 20 IN B SPACE
BUTTS LAPPED & DOUBLE RIVETED THROUGHOUT

DOUBLE UNDER FLOORS & GIRDERS
in tongue space
2 web beams

22 x 15
22 x 15
22 x 15
22 x 15

10 RIVETS THRO BOTH
FLANGES OF OUTSIDE LUG

13-10
20 BUTTS LAPPED & TREBLE
RIVETED FORE & AFT

60 x 20 BUTTS LAPPED
& QUADRUPLE RIVETED FOR 1/20
TREBLE AT ENDS

13-9
20 BUTTS LAPPED
& TREBLE RIVETED FORE
& AFT

60 x 20 BUTTS LAPPED
& QUADRUPLE RIVETED FOR 1/20
TREBLE AT ENDS

KEEL PLATE 36
BUTTS QUADRUPLE

NOTE:- TANK FRAMES DOUBLED FROM MARGIN PLATE
TO MARGIN PLATE BETWEEN $\frac{3}{5}L$ FORWARD
& COLLISION B.H.

TWO STRAKES OF PLATING NEXT TO GARBOARD
TO HAVE MIDSHIP THICKNESS MAINTAINED FORWARD
TO COLLISION BH

PROPOSED INCREASE INSTEAD OF DOUBLING KEEL

| | |
|---|--------------------------|
| KEEL PLATE INCREASED $\frac{1}{2}$ " IN THICKNESS | } FOR $\frac{1}{2}$ ONLY |
| GARBOARD " $\frac{1}{2}$ " " " | |
| CENTRE KEELSON " $\frac{1}{2}$ " " " | |

KEEL PLATE TO HAVE QUADRUPLE OVERLAPPS FOR $\frac{1}{2}$ "

W478-0179

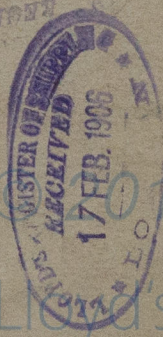
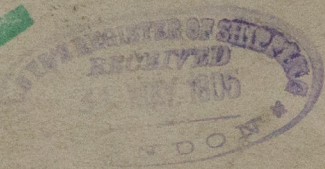
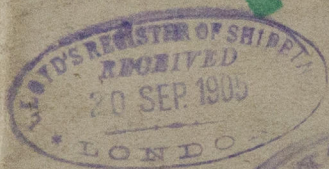
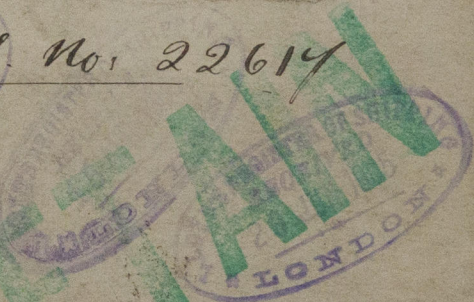
Midship Section
for
The Sunderland S.B. Co's

No. 233.

S.S. Royal Crown

S.S. Athenic

Sld. J.L. No. 22614



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Lloyd's Register
Foundation