

30.12.04
16.1.05
27.1.05
27.2.05

EQUIPMENT.

NUMERALS.
107.15 x 390.16 = 41805.64
15 x 7.98 x 390.16 = 4670.21
7.5 x 64.6 = 484.50
NUMERALS.
= 46960.35

ANCHORS + CHAINS to.
2 BOWER ANCHORS EACH 65 CWTs STOCKLESS
1 Stream " 54 1/2 " Ex. Stock
1 KEDGE " 17 1/2 " " "
270 FATHOMS 2 1/4" STUD CHAIN CABLE
90 " 4 3/4" STEEL WIRE HAWSER
120 " 1 1/4" HEMP OR 5" STEEL WIRE TOWLINE
2 of 90 " 8" " 2 3/4" " HAWSER
2 of 90 " 7" " 2 1/2" " WAKES.

NUMERALS.

1/2 GIRTH 52.10
DEPTH 30.16
1/2 BEAM 24.89
107.15
-7.00
100.15
390.16
2ND No. 39074.52

PROPORTIONS.

DEPTHS TO LENGTH 12.93
BEAMS " " 7.83

SCANTLINGS.

FRAMES.

FRAMES 6 1/2 x 3 1/2 x 1/2 FOR 3/5 L: 1/2 AT ENDS, SPACED 25" APART TO FORM WITH REVERSE BAR A 10" GIRDER BETWEEN PEAK BULKHEADS.
ALL FRAMES TO SHELTER DECK
BULKHEAD FRAMES OF SINGLE ANGLE 6" x 6" x 1 1/2" OR DOUBLE ANGLES 4 1/2 x 4 1/2 x 1/2
FRAMES IN PEAKS 6" x 3 1/2 x 1/2

REVERSE FRAMES.

REVERSE FRAMES 7" x 3 1/2 x 1/2 FOR 3/5 L: 1/2 AT ENDS.
IN PEAKS 4 1/2 x 3 1/2 x 1/2
ALL TO UPPER DECK AND ALTERNATELY TO FEEL IN WAY OF SAME

DOUBLE BOTTOM.

FRAMES 3 1/2 x 3 1/2 x 1/2 FOR 3/5 L: 1/2 AT ENDS
DOUBLE 3 1/2 x 3 1/2 x 1/2 FROM 3/5 L FORWARD TO COLLISION BULKHEAD
REVERSE FRAMES 3 1/2 x 3 1/2 x 1/2 Fore & Aft
UNDER ENGINES 5" x 5" x 1/2 SINGLE
IN BOILER SPACE 3 1/2 x 3 1/2 x 1/2 DOUBLE UNDER BOILER BEARERS

FLOORS.

FLOORS & INTERCOSTAL PLATES BEFORE & ABOARD BOILER SPACE
1/20" ALL FORE & AFT. IN BOILER SPACE 1/16": IN PEAKS 8/20"

LOWER HALF 1/20" - UPPER HALF 1/16"
VERTICAL STIFFENERS 6" x 3 1/2 x 1/2 ANGLES: SPACED 30" APART
HORIZONTAL 8" x 3 1/2 x 1/2 B.A.
IN LIEV OF BRACKETS BEING FITTED TO VERTICAL STIFFENERS AT TANK TOP AN EXTRA VERTICAL WEB IS FITTED BETWEEN TANK TOP & HOLD BEAMS I.E. BHDS 45 AND UNDER 55 FT. IN BREADTH TO HAVE 3 VERTICAL WEBS
36 " 45 " 2
UNDER 36 FEET 1
WEB-
BHDS CONNECTED TO TANK TOP & DECK BY SINGLE ANGLE 5" x 5" x 1 1/2"

STEM.

11" x 3 1/8" STERN POST 11" x 7 1/2"

RUDDER.

STOCK 10" DIAR: 4HEEL 7 1/2" DIAR: FINLES 5" DIAR:
(TO BE INCREASED 10/20")

SHELL.

PLATING CONNECTION TO STERN FRAME TO BE OF 1/2" THICKNESS.
BOSS PLATES & PLATES ABOVE & BELOW SAME INCREASED 1/20" IN THICKNESS
BEFORE 3/5 L RIVETS IN LANDING EDGES OF STRAKES OF PLATING FORMING
PLAT OF BOTTOM SPACED NOT MORE THAN 4 DIARS APART.
RIVETS IN PLATING AND FRAMES IN WAY OF SAME SPACED NOT MORE THAN 5 1/2 DIARS APART.
N.B. BUTTS OF INSIDE STRAKES OF PLATING WHERE 54" WIDE & UNDER, TO BE LAPPED + 3R. WHERE EXCEEDING THESE WIDTHS TO BE LAPPED + 4R FOR 1/2 L, 3R AT ENDS.

SKETCH OF
FRAME GIRDER
BETWEEN PEAK BHDS.

FRAMES
+ 3 1/2"
10"
REVERSE FRAMES

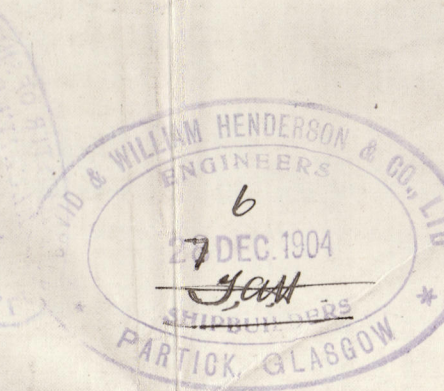
SKETCH OF SIDE STRINGERS
SHOWING LIGHTENING HOLES 3" DIAR.

Top Angles 4" x 4" x 1/2
Centre Girder 4 1/2" x 1/2
BUTTS LAPPED + 3R
C.G. VERTICAL ANGLES 5" x 5" x 1/2 SINGLE FOR 1/2 L
3 1/2 x 3 1/2 x 1/2 AT ENDS
Bottom Angles 4 1/2 x 4 1/2 x 1 1/2

MIDSHIP SECTION.

S.S. No 445.

Dims: 392' BP x 50' EX x 29' 2" MLD
TO CLASS 100 A1 LLOYD'S 3 DECK RULE
SCALE: 1/2 Inch = 1 Foot



SHELTER DECK.

COMPLETE STEEL DECK 1/20" TO 1/20"
BUTTS 2R FOR 1/2 L: 1R AT ENDS
SCAMS 1R.
SHelter DECK BEAMS 6" x 3" x 1/2 B.A. ON EVERY FR: BEAM KNEES 16 1/2 x 16 1/2 x 1/2
HALF BEAMS AT E+B AND CARGO HATCHES 6" x 3" x 1/2 B.A. ON EVERY FR: 16 1/2 x 16 1/2 x 1/2
HATCH END BEAMS 10 1/2 x 3 1/2 x 1/2 B.A. 25" x 25" x 1/2

UPPER DECK
COMPLETE STEEL DECK 1/20" TO 1/20"
BUTTS LAPPED + 2R FOR 1/2 L: 1R AT ENDS
SCAMS 1R FORE & AFT.
UPPER DECK BEAMS 11" x 3 1/2 x 1/2 B.A. ON ALT. FR: BEAM KNEES 30" x 30" x 1/2
HALF BEAMS AT E+B & CARGO HATCHES 8" x 3 1/2 x 1/2 B.A. ON EVERY FR: 30" x 30" x 1/2
HATCH END BEAMS 11" x 3 1/2 x 1/2 B.A. 30" x 30" x 1/2
BEAMS UNDER CREWS QUARTERS 10 1/2 x 3 1/2 x 1/2 B.A. ON ALT. FR: 29" x 29" x 1/2

MAIN DECK
COMPLETE STEEL DECK 1/20" TO 1/20"
BUTTS LAPPED + 2R FOR 1/2 L: 1R AT ENDS
SCAMS 1R FORE & AFT.
MAIN DECK BEAMS 11" x 3 1/2 x 1/2 B.A. ON ALT. FR: BEAM KNEES 33" x 33" x 1/2
HALF BEAMS AT E+B & CARGO HATCHES 8" x 3 1/2 x 1/2 B.A. ON EVERY FR: 33" x 33" x 1/2
HATCH END BEAMS 11" x 3 1/2 x 1/2 B.A. 33" x 33" x 1/2

UNDER 50 FEET
SHEERSTRAKE 4 1/2 x 1 1/2
BUTTS LAPPED + 4R.
9" SIDELIGHTS 12" G APART - 6" 3" APART IN CREW SPACE

UNDER 50 FEET
PLATE 1/20" TO 1/20"
FACE ANGLE 6 1/2 x 4 1/2 x 1 1/2
SHELL LUG 3 1/2 x 3 1/2 x 1 1/2
STRINGERS CUT AT BHDS AND BRACKETED - BULKHEAD CONNECTION TO BE SINGLE ANGLE

MIDDLE LINE STRAKE
4 1/2 x 1/2 FOR 1/2 L: 1/2 AT ENDS
1/20" TO 1/20" IN BOILER SPACE
1/20" + 1/20" (1/20") IN ENGINE SPACE
1/20" + 1/20" (1/20") BOILER
1/20" + 1/20" (1/20") BOILER
BUTTS LAPPED + 2R FORE & AFT.
TANK TOP PLATING UNDER ENGINES 20" x 20"
TANK TOP PLATING BEFORE & ABOARD E+B SPACES 1/20" TO 1/20"
1/20" + 1/20" (1/20") IN ENGINE SPACE
1/20" + 1/20" (1/20") BOILER
BUTTS LAPPED + 2R FORE & AFT.

MARGIN PLATE 36" x 1/20"
1/20" IN BOILER SPACE
BUTTS LAPPED + 2R FORE & AFT
TOP & BOTTOM EDGES FLANGED
42" x 18" FOR 3/5 L: 1/2 AT ENDS
60" x 14" FOR 1/2 L: 1/2 AT ENDS
INCREASED 1/20" (1/20")
FOR 1/2 L
INCREASED 1/20" (1/20")
FOR 1/2 L
2 STRAKES OF 1/2" THICKNESS CARRIED TO COLLISION BHD
SHELL REDUCED 1/20" IN WAY OF D.B. AS SHOWN

DOUBLE BUTT STRAPS 3R OR OVERLAPS 4R
SEE DETAILS
12" x 10" B.
11" x 9" C.
12" x 9" D.
INCREASED 1/20" FORE & AFT
(13" x 10")
(5" x 5" x 1/20" FOR 1/2 L: SINGLE ANGLE 14" x 1/20" IN EACH PLATE WITH RIVETS AND FULL RIVETED POINTS.
(3 1/2 x 3 1/2 x 1/20" AT ENDS
(5" x 3 1/2 x 1/20" FOR 1/2 L: 1/20" IN BOILER ROOM
(3 1/2 x 3 1/2 x 1/20" AT ENDS

SKETCH of Keel Butts to Deck
ANGLES 4 1/2 x 4 1/2 x 1 1/2
FLANGE TO KEEL TO TAKE 1" RIVETS 4" APART
INNER STRAP
CARBOARD STRAKE
KEEL PLATE
OUTER STRAP 1/20"
DOUBLE BUTT STRAPS 3R: 1" RIVETS.
OUTER STRAP COUNTERSUNK THRO TO KEEL PLATE.

ENTRE GIRDER SHOWING AIR & DRAINAGE HOLES 4" DIAR.

INTERCOSTALS IN TANK SHOWING AIR AND DRAINAGE HOLES 4" DIAR.

SKETCH OF KEEL PLATE OVERLAPS
4R OVERLAP 1" RIVETS.
AFT
FORWARD

SKETCH OF TANK MARGIN
REVERSE FRAME
WING BRACKET
MARGIN PLATE (FLANGED)
TANK TOP PLATING
FLOOR PLATE
14" x 7/8" RIVETS WITH FULL KNOBBLED POINTS AND PAN HEADS.

Mid Election (12)

Henderson 445

S.S. Ashburton

fls. npt. no. 22989

Sp. Assins.

fls. npt. no. 24374

Ashburton

Henderson 445

Section

(12)

W970-0139



© 2020

Lloyd's Register
Foundation.