

Nº 82. MIDSHIP SECTION.

SCALE 1/2 INCH TO A FOOT.

PRINCIPAL DIMENSIONS
LENGTH BETWEEN P.P. 345.0'
BREADTH MOULDED 50.0'
DEPTH 29.1'

NUMERALS
BREADTH 50.00
DEPTH +29.08
79.08 TRANSVERSE Nº
LENGTH x 345.00
27.282.60 LONGITUDINAL Nº

PROPORTIONS
V/D 11.86
d 17.50

STEM 10 x 3/8 FORGED STEEL
STERN FRAME CAST STEEL, AS PER PLAN
PROPELLER POST 10 x 7
RUDDER POST 9 x 7
RUDDER SINGLE PLATE TYPE, AS PER PLAN

FRAMINGS:-
FRAME SPACE 33' APART FROM AFT PEAK BHP TO 3/5 L & FORWARD
27' 3/5 L & FORWARD TO COL. B.H.
24' IN BOTH PEAKS
FRAMES IN AFT PEAK FRAME 6 x 3/2 x 3/2 A WITH REVERSE
FRAME 3 x 3/2 x 3/2 TO FORM G GIRDER, EXTEND TO UPPER DK.

FRAMES IN FORE PEAK, FRAME 7 x 3/2 x 4 x 2 B.A. EXTEND TO
F.C.L. & 2ND DECK, ALTERNATELY
INTERMEDIATE FRAME 6 x 3/2 x 2 x 2 A SCARFED TO MAIN FRAME
MAIN FRAME (FRAME SPACE 33')
10 x 3/2 x 3/2 A CHANNEL EXTEND TO UPPER & 2ND DECK,
ALTERNATELY

INTERMEDIATE FRAME 6 x 3/2 x 40 A
MAIN FRAME (FRAME SPACE 27')
9 x 3/2 x 3/2 CHANNEL EXTEND TO UPPER & 2ND DECK, ALTERNATELY
EXCEPT IN F.C.L. WHERE F.C.L. & 2ND DECK, ALTERNATELY
INTERMEDIATE FRAME 6 x 3/2 x 40 A
MAIN FRAME IN WAY OF TUNNEL RECESS (F.S. 33')
8 x 3/2 x 40 B.A. EXTEND TO UPPER & 2ND DECK, ALTERNATELY
INTERMEDIATE FRAME 6 x 3/2 x 40 A
FLOOR PLATE IN PEAKS 42 x 3/2
TRANSOM PLATE 42 x 3/2

W.T.B.H.		G IN		NUMBER		
PLATE		ANGLE (SINGLE)		STIFFENER		
F.Nº	HOLD	UTOK	SHELL & D B	DECK	SIZE	SPACE
8	3/8	5/16	5" x 5" x 5/16	4" x 4" x 3/8	8" x 3" x 44 BA 24	
31	3/8	5/16	5" x 5" x 3/8	35" x 35" x 3/8	9" x 35" x 35" x 40CH 30	
51	3/8	5/16	5" x 5" x 3/8	35" x 35" x 3/8	9" x 35" x 35" x 40CH 30	
71	3/8	5/16	5" x 5" x 3/8	35" x 35" x 3/8	9" x 35" x 35" x 40CH 30	
96	3/8	5/16	5" x 5" x 5/16	4" x 4" x 3/8	9" x 35" x 35" x 40CH 30	
124	3/8	5/16	5" x 5" x 3/8	4" x 4" x 3/8	85" x 3" x 46 BA 24	

ALL VERTICAL STIFF INHOLD BRACKETED AT TOP & BOTTOM
UPPER TWEEN DECK BHP PLATE 5 FLANGE 8 x 3 x 3/8 A. ALTS SPACED
30' EXCEPT COLLISION BHP (F.Nº 24) WHERE 24' APART & NOT BRACKETED
AT TOP & BOTTOM, AND INHOLD ADDITIONALLY STIFFENED BY HORIZONTAL
B. ANGLE 8 x 3/2 x 42 SPACED 42' APART & TWO SEMI-BOX BEAMS
REVERSE ANGLE 35 x 35 x 44 TO BE FITTED TO EVERY 3RD VERTICAL STIFF
INHOLD & HORIZONTAL STIFF 8 x 3/2 x 50 B.A. TO BE FITTED AT HEIGHT
ABOUT 2 FEET FROM TOP OF DOUBLE BOTTOM, EXCEPT COLLISION
BHP & AFT PEAK BHP

SHAFT TUNNEL
SIDE PLATE 3/8 TOP PLATE 3/8, 3/8 UNDER HATCHWAY, STIFF 6 x 3/2 x 40 B.A.
(F.Nº 31) 6 x 3/2 x 34 B.A. (F.Nº 31-35) SPACED 24' - 35' APART

POOP FRONT B.H.
PLATE 3/8 COAMING PLATE 3/8
STIFF ANGLE 6 x 3/2 x 26, 30 SPACED & NOT BRACKETED
AT TOP & BOTTOM

BRIDGE FRONT B.H.
PLATE 3/8 COAMING PLATE 3/8
STIFF 8 x 3/2 x 64 B.A. SPACED 30' & BRACKETED
AT TOP & BOTTOM

ENGINE & BOILER CASINGS
AS PER CASING PLAN

BRIDGE DECK PLATE 3/8
BUTTS LAPPED & IR
EDGE LAPPED & IR

WOOD DECK 3/8 O.P.
2 1/2 O.P. IN HOUSE

BEAM LENGTH NOT EXCEED 46.0

BRIDGE DECK BEAM
7 x 3/2 x 44 B.A. (2 ROWS SIZE) FITTED
TO EVERY FRAME, KNEE 21 x 3/8
6 x 3/2 x 42 B.A. (3 ROWS SIZE) FITTED
TO EVERY FRAME, KNEE 21 x 3/8

UPPER DECK PLATE
3/8 = 3/8, 3/8 BETWEEN HATCHWAY
BUTTS LAPPED & IR
EDGE LAPPED & IR

UPPER DECK SHEATHING WITH 3 O.P.
IN WAY OF COAL BUNKER, 2 1/2" LUG
IN SIDE DIRECTIONS

BEAM LENGTH NOT EXCEED 48.0

UPPER DECK BEAMS:-
(22 F.S.) 11 x 3 x 50 B.A. (2 ROW SIZE) FITTED TO EVERY FRAME, KNEE 22 x 3/8 & 44
(22 F.S.) 7 x 3 x 50 B.A. () KNEE 22 x 3/8
(IN WAY OF TWEEN DECK COAL BUNKER IN BRIDGE (L.D. SIZE BY TRIMMING REQUIREMENTS)
(22 F.S.) 6 x 3 x 40 B.A. (3 ROW SIZE) FITTED TO EVERY FRAME, KNEE 22 x 3/8
(22 F.S.) 7 x 3 x 42 B.A. (3 ROW SIZE) FITTED TO EVERY FRAME, KNEE 22 x 3/8
(22 F.S.) 7 x 3 x 42 B.A. (2 ROW SIZE) FITTED TO EVERY FRAME, KNEE 20 x 3/8
(24 F.S.) 7 x 3 x 40 B.A. (2 ROW SIZE) KNEE 20 x 3/8
(24 F.S.) 5 x 3 x 40 B.A. (3 ROW SIZE) KNEE 20 x 3/8
(27 F.S.) 6 x 3 x 40 B.A. (3 ROW SIZE) KNEE 20 x 3/8
HALF BEAMS
HATCH END BEAMS } AS PER DECK PLAN

2ND DECK PLATE
BUTTS LAPPED & IR
EDGE LAPPED & IR

CAMBER 12 1/2 FOR 50.0' BEAM LENGTH NOT EXCEED 50.0

2ND DECK BEAMS:-

(22 F.S.) 8 x 3 x 50 B.A. (2 ROW SIZE) FITTED TO EVERY FRAME, KNEE 25 x 3/8 & 44
(27 F.S.) 7 x 3 x 42 B.A. (3 ROW SIZE) KNEE 23 x 3/8
(33 F.S.) 7 x 3 x 44 B.A. (3 ROW SIZE) KNEE 23 x 3/8
(24 F.S.) 6 x 3 x 40 B.A. (3 ROW SIZE) KNEE 21 x 3/8

HALF BEAMS
HATCH END BEAMS } AS PER DECK PLAN

DOUBLE BOTTOM
MIDDLE LINE STRAKE 41 x 1/2 x 3/8, 3/8 IN B.S.
BUTTS LAPPED & IR 3 R-2 R
INNER BOTTOM PLATING 3/8 - 3/8, 3/8 IN B.S.
BUTTS LAPPED & IR 2 R-1 R
MARGIN PLATE 33 x 46 FOR 3/5 L & FORWARD
28 x 46 AT AFT END
BUTTS LAPPED & IR 3 R-2 R

CENTRE GIRDER 41 x 1/2 x 3/8, 3/8 IN B.S.
BUTTS LAPPED & IR
SIDE GIRDER 3/8, 1/2 IN B.S. FLANGED BY 3/8
FAYING SURFACE AT TOP & 3 F.S. AT SIDES EXCEPT 3/5 L FORWARD & MACHINERY
BOTTOM ANGLE 35 x 35 x 3/8
FLOOR PLATE 3/8 (28 x 36) 40 IN B.S., TOP FLANGED BY 3/8 FAYING SURFACE
EXCEPT 3/5 L & FORWARD ETC.
TO BE FITTED TO EVERY 2ND FRAME EXCEPT IN E.S. THRUST RECESS, UNDER
BOILER BEARERS & 3/5 L FORWARD ETC. AS PER PLAN WHERE TO EVERY FRAME
REVERSE FRAME IN WAY OF 3/5 L & FORWARD 35 x 35 x 3/8 S.A. IN E.S. 35 x 35 x 3/8 D.A.
UNDER BOILER BEARER 35 x 35 x 1/2 D.A.
FRAME 4 x 35 x 3/8 (4 FL VERTICAL) S.A. 35 x 35 x 3/8 D.A. FOR 3/5 L & FORWARD
TO COL. B.H.

EXTRA SIDE GIRDER IN E.S.

NO MANHOLES TO BE CUT, SINGLE LUG
UNDER W.S. PILLAR

42 x 42 x 3/8 S.A. FOR 3/5 L & 54' AT END
35 x 35 x 3/8 D.A. IN E.S.
30 D.A. AT 35 L FORWARD TO COL. B.H.
5 x 5 x 3/8 S.A. FOR 3/5 L & 54' IN B.S.
35 x 35 x 3/8 S.A. AT ENDS
42 x 42 x 3/8 FOR 3/5 L &
54' AT ENDS

KEEL PLATE 46 x 1/2 FOR 3/5 L &
36' AT ENDS
DOUBLE STRAPPED BUTTS 3 R OR BUTTS LAPPED
BUTTS LAPPED & IR AT ENDS

35 x 35 x 3/8
48 IN B.S.

75 x 35 x 40 - 44 B.A.

48 IN B.S.

7 x 3 x 44 - 42 B.A.

48 IN B.S.

8 x 35 x 40 - 44 B.A.

	POOP	F.C.L.
SIDE PLATING	3/8 BUTTS 2-RIV. EDGE 1-R	3/8 BUTTS 2-RIV. EDGE 1-R
STRINGER PLATE	3/8 BUTTS 2-RIV. 2-R	3/8 BUTTS 2-RIV. 2-R
TIE PLATE	3/8 BUTTS 2-RIV. 2-R	3/8 BUTTS 2-RIV. 2-R
WOOD DECK	3 O.P.	3 O.P. 3/8 O.P. UNDER WINDLASS
BEAM	8 x 3/2 x 50 B.A. (2 F.S.) KNEE 21 x 3/8 21 x 3/8 FITTED TO ALTERNATE FRAMES 65 x 3/2 x 44 B.A. (3 F.S.) KNEE 21 x 3/8 17 x 3/8 FITTED TO EVERY FRAME	8 x 3/2 x 40 B.A. (2 F.S.) KNEE 21 x 3/8 24 x 3/8 FITTED TO ALTERNATE FRAMES 8 x 3/2 x 40 B.A. (2 F.S.) KNEE 21 x 3/8 24 x 3/8 FITTED TO ALTERNATE FRAMES

EQUIPMENT NO.	(B+D) x L	
POOP	33.29 x 7.75 x 3/4	= 193.50
BRIDGE	77.00 x 7.75 x 3/4	= 447.56
FORECASTLE	40.46 x 7.75 x 3/4	= 235.17
DECK HOUSE	(22.475) x 7.75 x 1/2	= 277.06
		28.435.89

RIVETING NOTE (MAX. SPACING FROM C. TO C.)
RIVETS IN FRAME & SHELL PLATING 3/5 L FORWARD IN DOUBLE
BOTTOM 5/8 DIA
RIVETS CONNECTING FRAMES TO SHELL PLATING (WHERE FRAME SPACING
33') 5/8
27' (IN AFT PEAK TANK) 5/8
54' (IN FORE PEAK) 5/8

FRAME SPACING
IN TREBLE RIVETED BUTTLAPS OF OUTSIDE PLATING & DECK
STRINGER PLATES 33'
QUADRUPLE RIVETED BUTTLAPS OF OUTSIDE PLATING & DECK
STRINGER PLATES 4'
LANDINGS OF OUTSIDE PLATING AT ENDS 4'
BUTTS OF DECK PLATING, MARGIN PLATE & BUTTS & EDGES OF
INNER BOTTOM PLATING 4'
GUNWALE ANGLES, MARGIN PLATE ANGLES, EDGES & BUTTS OF
W.T.B.P. PLATING & EDGES OF DECK PLATING 48'
FLAT PLATE KEEL TO CENTRE GIRDER 5'
FLOOR, VERTICAL ANGLES IN FLOOR & SIDE GIRDER, BHP STIFFENERS &
SIDE STRINGER 7'
CENTRE GIRDER TOP ANGLES (WHERE NOT CAULKED) 7'
CONNECTING REVERSE FRAMES TO TANK TOP IN WAY OF 33' FRAME SPACE 6'

IN DECK PLATING TO BEAMS (WHERE FRAME SPACING 33') 6'
27' 7'
24' 7'
FORECASTLE DECK PLATING TO BEAM (WHERE BEAM FITTED TO ALTERNATE
POOP DECK PLATING TO BEAM (IN WAY OF BEAM FITTED TO
ALTERNATE FRAMES ONLY) 6'
FLOORS & CROSS TIE PLATES TO FRAMES IN AFT PEAK TANK 5'
FRAMES & REVERSE FRAMES TO FLOORS 7'
SHELL CONNECTING ANGLES IN 30' - 33' FRAME SPACING 6' IN Nº

WHERE FRAME SPACING 33' APART 7-18 DIA RIVETS IN
EACH ROW IN LANDING EDGES AMIDSHIP EXCLUDING RIVETS
IN FRAMES
D.O. 8-11 DIA D.O.
D.O. 9-18 DIA D.O.
D.O. 10-3/4 DIA D.O.

RIVETS 12 - 7/8 DIA. AT 33' F.S.
8 - 1" DIA. AT 27' F.S.
MACHINERY SPACE AFTWARD

BILGE KEEL 10 x 40 B.P.
WITH 5 x 5 x 40 x 3/8 S.A.
TO FORM 12 GIRDER

KORE WORKS
MITSUBISHI ZENRO KAISHA, LTD.
SHIP DRAWING OFFICE.

TO
TRAFFIC BY
CHECKED
SHIP D. OFFICE NO. 8282
DATE. APR 8 1920

5.5. "SAMARANG MARU"
Mitsubishi Hull No 82.

Midship Section
of vessel as built

Habe Rept No. 2834



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Lloyd's Register
Foundation

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