

S. S. HACUE MARU. MIDSHIP SECTION

SCALE $\frac{1}{2}$ IN. TO ONE FOOT.

PRINCIPAL DIMENSIONS.

LENGTH B.P.	407' 3"
BREADTH M ⁸	50' 10"
DEPTH M ⁸	32' 7"

RULES NUMERALS.

BREADTH	50.83
DEPTH	32.58
LENGTH	83.41 TRANS. N ⁸
LENGTH	407.25
	33,968.72 LONG. N ⁸
d	19.65
50 TO BR. DK.	10.10
50 TO UP. DK.	12.50

EQUIPMENT NUMBER.

(B+D) x L	$(80.83 + 32.58) \times 407.25 = 33,968.72$
POOP	$39.75 \times 7.75 = 231.05$
BRIDGE	$137.25 \times 7.75 = 797.77$
F ⁸ LE	$45.75 \times 7.75 = 265.92$
CASING	$57.75 \times 8.5 = 245.49$
DECK HOUSE	$25.75 \times 8.00 = 103.00$
EQUIPMENT NUMBER	3561195

EQUIPMENTS.

3 BOWER ANCHORS (STOCKLESS TYPE) 65 CWT'S. EACH. COLLECTIVE WEIGHT 195 CWT'S.	
1 STREAM ANCHOR (EX. STOCK)	17½ CWT'S.
1 KEDGE	7½ CWT'S.
270 FATHOMS 2½" DIA. STUD CHAIN CABLE.	
90 " 4½" CIR. STEEL WIRE WITH REEL.	
120 " 5 " STEEL WIRE TOW LINE WITH REEL.	
2-90 " 2½" " " " " " " " " " " " "	
2-90 " 2½" " " " " " " " " " " "	
2-90 " 7" " MANILA ROPES, WARP LAID.	
2-90 " 8" " " " " " " " " " " "	

BRIDGE DECK HATCHES.

- N⁸ 3 HATCH (18'0" x 18'0") SIDE COAMING PL. 50'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
N⁸ 4 HATCH (11'3" x 18'0") SIDE COAMING PL. 45'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
POOP DECK HATCH
N⁸ 7 HATCH (12'3" x 10'0") SIDE & END COAMING
PL. 44" ANGLE 3½" x 3½" x 50'

UPPER DECK HATCHES.

- N⁸ 1 HATCH (27'0" x 20'0") SIDE COAMING PL. 50'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
N⁸ 2 HATCH (31'6" x 20'0") SIDE COAMING PL. 50'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
N⁸ 3 HATCH (18'0" x 18'0") COAMING 10' x 3½" x 50'
BULB ANG. & PLATE 50'
N⁸ 4 HATCH (11'3" x 18'0") COAMING 10' x 3½" x 50'
BULB ANG. & PLATE 45'
N⁸ 5 HATCH (27'0" x 20'0") SIDE COAMING PL. 50'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
N⁸ 6 HATCH (27'0" x 20'0") SIDE COAMING PL. 50'
END COAMING PL. 44" ANGLE 3½" x 3½" x 50'
N⁸ 7 HATCH (12'3" x 10'0") COAMING 10' x 3½" x 50'
BULB ANG. & PLATE 44'

MAIN DECK HATCHES.

- N⁸ 1 HATCH (27'0" x 20'0") COAMING 3½" x 3½" x 60'
ANGLE & PLATE 50'
N⁸ 2 HATCH (31'6" x 20'0") COAMING 3½" x 3½" x 60'
ANGLE & PLATE 55'
N⁸ 3 HATCH (18'0" x 18'0") COAMING 3½" x 3½" x 60'
ANGLE & PLATE 55'
N⁸ 5 HATCH (27'0" x 20'0") COAMING 3½" x 3½" x 60'
ANGLE & PLATE 55'
N⁸ 6 HATCH (27'0" x 20'0") COAMING 3½" x 3½" x 60'
ANGLE & PLATE 50'

STEM—10½" x 2½"—ROLLED OR FORGED STEEL.

STERN FRAME—PROPELLER POST 10½" x 7½"—CAST STEEL.

RUDDER—SINGLE PLATE TYPE

RUDDER HEAD 11" DIA. 8½" DIA. AT HEEL. 5½" DIA. PINTLE—FORGED STEEL.

RUDDER PLATE 110" THICK.

FLOORS—4'0" FOR ½ L. X. TO 3'6" AT ENDS. 5'0" IN BOILER SPACE & ORDINARY FLOORS AT ENDS 4'0"
TRANSOM FLOOR 4'8"

DOUBLE BOTTOM CENTRE GIRDER—4'3" x 50" TO 4'0" AT ENDS. 60" IN BOILER SPACE. BUTTS OVERLAPPED
TREBLE RIVETED. VERTICAL ANGLE 5'5" x 5'6" SINGLE. 6'6" IN BOILER SPACE & 3½" x 3½" x 40"
SINGLE AT ENDS. TOP ANGLE 5'5" x 5'6" TO 5'0" SINGLE. 5'6" IN BOILER SPACE & 3½" x 3½" x 50"
DOUBLE IN ENGINE SPACE. 4'8" DOUBLED FORWARD OF ¾ L. X. BOTTOM ANGLE
5'5" x 5'6" TO 5'0" DOUBLE.

SIDE GIRDERS—INTERCOSTAL PLATE 4'0" TO 3'6" 50" IN BOILER SPACE. VERTICAL ANGLE 3'3" x 4'0"
SINGLE. 50" IN BOILER SPACE. TOP ANGLE 3½" x 3½" x 4'0" SINGLE. 50" IN BOILER SPACE.
BOTTOM ANG. 3½" x 3½" x 4'0" SINGLE.

REVERSE BARS—3½" x 3½" x 4'0" SINGLE. 50" IN BOILER SPACE.

4'3½" x 4'6" DOUBLED IN ENG. SPACE & 4'3½" x 5'0" DOUBLED UNDER BOILER BEARERS.
FRAME BARS—3½" x 3½" x 4'0" SINGLE & DOUBLED FORWARD OF ¾ L. X. COLLISION BULKHEAD.

TANK TOP CENTRE STRAKE—6'0" x 4'8" TO 3'8" AT ENDS. 56" IN BOILER SPACE. 100" IN ENGINE SPACE.
BUTTS OVERLAPPED TREBLE RIVETED FOR ½ L. X. TO DOUBLE RIVETED AT ENDS.

WOOD CEILING 2½" THICK & BATTEN 1½" THICK.

FULL DEPTH GIRDER UNDER PILLAR FOR 2 FRAME SPACE.

NO MANHOLES TO FLOOR PLATE & GIRDER UNDER PILLAR.

TANK TOP PLATING MARKED THUS "INCREASED .02" ALL FORE AND AFT.

FLAT PLATE KEEL—4'7" x 102" FOR ¾ L. X. TO 7'5" AT ENDS.

BUTTS DOUBLE BUTTSTRAPPED TREBLE RIV⁸ FOR ½ L. X. TO QUADRUPE RIV⁸ OVERLAPPED AT ENDS.

SHELL—FROM FLAT PLATE KEEL TO UPPER TURN OF BILGE.

BUTTS OVERLAPPED QUADRUPE RIVETED FOR ½ L. X. TO TREBLE RIV⁸ AT ENDS.

BRIDGE DECK STRINGER ANGLE—5'5" x 6'0" & 3½" x 3½" x 36" ON POOP & F⁸LE.
BRIDGE DECK STRINGER PLATE—5'5" x 54" & 3'5" x 36" AT POOP & F⁸LE.
BUTTS OVERLAPPED TREBLE RIVETED ON BRIDGE &
DOUBLE RIVETED ON POOP & F⁸LE DECK.

BRIDGE DECK BEAM NOT EXCEED 48 FT. LENGTH.

BRIDGE DECK BEAM—7'3½" x 2" BULB ANG. BEAM KNEE 20' x 20' x 42"
POOP DECK BEAM—6'3" x 25" BULB ANG. BEAM KNEE 17' x 17' x 40"
FITTED ON EVERY FRAME (TWO ROWS OF PILLARS)

F⁸LE DECK BEAM—9'3½" x 1½" BULB ANG. 8'3½" x 46" B. ANG. BEAM KNEE 25' x 25' x 34"
FITTED ON ALTERNATE FRAMES (TWO ROWS OF PILLARS)

WOOD SPARRING—6' x 12" SOFT WOOD. IN COAL & CARGO SPACE ONLY.

UPPER DECK STRINGER ANG.—5'5" x 6'6" FOR ½ L. X. 3½" x 3½" x 48" IN
BRIDGE. 3½" x 3½" x 44" AT ENDS & IN POOP & F⁸LE.

SHELL ANGLE—3½" x 3½" x 48" IN BRIDGE & 3½" x 3½" x 44" IN POOP & F⁸LE.

UPPER DECK STRINGER PLATE—6' x 62" 82" AT ENDS OF BRIDGE. 8' IN BRIDGE
& 3½" x 44" AT ENDS. BUTTS OVERLAPPED QUADRUPE RIVETED FOR ½ L. X.
TREBLE RIVETED IN BRIDGE & AT ENDS.

UPPER DECK BEAM—7'3½" x 2" BULB ANG. & THOSE UNDER ½ L. X.
6'3" x 2" BULB ANG. BEAM KNEE 21' x 21' x 44"
FITTED ON EVERY FRAME (TWO ROWS OF PILLARS)

MAIN DECK PLATE—36" FOR ½ L. X. TO 30" AT ENDS. BUTTS OVERLAPPED
DOUBLE RIVETED FOR ½ L. X. TO SINGLE RIVETED AT ENDS.
SEAMS SINGLE RIVETED, BUT DOUBLE RIVETED WHERE REQUIRED.

WOOD SPARRING—6' x 2" SOFT WOOD.

MAIN DECK STRINGER PLATE—58' x 48" FOR ½ L. X. TO 35' x 44" AT ENDS.
44" IN WAY OF BRIDGE. BUTTS OVERLAPPED TREBLE RIVETED.
THROUGH OUT. BUT QUADRUPE RIVETED WHERE REQUIRED.

MAIN DECK STRINGER ANGLE—3½" x 3½" x 48" TO 44" AT ENDS. NO CONNECTION
TO REVERSE BAR. SHELL ANGLE—3½" x 3½" x 48" FOR ½ L. X.
TO 44" AT ENDS.

MAIN DECK BEAM—9'3½" x 1½" BULB ANG. & THOSE UNDER ½ L. X.
8'3½" x 1½" BULB ANG. (TWO ROWS OF PILLARS)
DEEP TANK BEAM—8'3½" x 1½" BULB ANG. (3 ROWS OF PILLARS)
FITTED ON EVERY FRAME.
BEAM KNEE—25' x 25' x 46" & DEEP TANK BEAM KNEE—28' x 28' x 50"

FRAMES—SPACED 27" APART X TO 24" AT ENDS.
IN PEAKS, FRAME BAR 6'3½" x 38" ANG. REVERSE
BAR 3½" x 3" x 38" ANG. FORMING 6" GIRDER.

IN HOLDS, FRAME BAR 6'3½" x 52" ANG. REVERSE
BAR 7'3½" x 52" ANG. FORMING 9½" GIRDER.

REVERSE BARS—ALL TO EXTEND UP TO UPPER DECK. BUT IN WAY OF
F⁸LE TO EXTEND UP TO F⁸LE DECK & UPPER DECK ALTERNATELY

WOOD SPARRING 6' x 2" SOFT WOOD SPACED 15"

TANK TOP PLATING—4'0" TO 3'6" IN HOLD. 4'8" IN ENGINE SPACE & 5'6"
IN BOILER SPACE. BUTTS OVERLAPPED DOUBLE RIVETED FOR
½ L. X. TO SINGLE RIVETED AT ENDS. SEAMS OF CENTRE STRAKE
DOUBLE RIVETED & OF REMAINING STRAKES SINGLE RIVETED.
TANK KNEES—4'0" TO 3'6" FLANGED BY 3½" ON TOP. 50" IN BOILER
SPACE. FITTED BETWEEN FRAME & REVERSE FRAME.
MARGIN PLATE—35' x 48" 58" IN BOILER SPACE. BUTTS OVERLAPPED
TREBLE RIVETED FOR ½ L. X. TO DOUBLE RIVETED AT ENDS.

TANK SIDE OUTER LUGS—6'6" x 4'8" SINGLE. 58" IN BOILER SPACE FROM
COLLISION BULKHEAD TO AFT OF ENGINE BULKHEAD. 3½" x 3½" x 40"
SINGLE ANGLE. AT AFT END. 2½" THICK SOFT WOOD.

TANK SIDE INNER LUGS—3½" x 3½" x 40" SINGLE. 50" IN BOILER SPACE.
GUSSET ANG—3½" x 3½" x 50" TO EVERY 20" FRAME. 60" IN B. S.

BRIDGE SIDE PLATING—4'8" x 6'8"
BUTTS OVERLAPPED QUADRUPE RIVETED.
POOP SIDE PLATING—3'8"
F⁸LE SIDE PLATING—4'2"
BUTTS OVERLAPPED DOUBLE RIVETED.
6" LAP DOUBLE RIV⁸ 2½" LAP SINGLE RIV⁸ AT POOP & F⁸LE.

64" IN WAY OF BRIDGE. BUTTS OVERLAPPED
QUADRUPE RIV⁸ 42" IN WAY OF F⁸LE & 3'8" AT
POOP SIDE. BUTTS OVERLAPPED DOUBLE RIV⁸

5½" LAP IN WAY OF BRIDGE & AT BRIDGE ENDS. ① STRAKE
TO BE CARRIED DOWN TO UPPER DK.

② UPPER DECK SHEERSTRAKE—58' x 88" FOR ½ L. X. TO 4'6"
AT ENDS. IN WAY OF BRIDGE. 64" AT ENDS OF BRIDGE DOUBLED.
BUTTS OVERLAPPED QUINTUPLE RIVETED (OR DOUBLE STRAPPED TREBLE RIV⁸)
FOR ½ L. X. TO TREBLE RIV⁸ IN WAY OF BRIDGE & AT ENDS. WHERE NOT
EXCEEDING 6'8"

6" LAP DOUBLE RIVETED AT BRIDGE ENDS. 5½" LAP IN WAY OF
BRIDGE & 4½" AT ENDS.

③ 72" FOR ½ L. X. TO 4'6" AT ENDS. IN WAY OF BRIDGE. 64"
BUTTS OVERLAPPED QUADRUPE RIVETED FOR ½ L. X.
TO TREBLE RIVETED IN WAY OF BRIDGE & AT ENDS.

6" TO 4½" LAP DOUBLE RIVETED.

④ 68" TO 46" BUTTS OVERLAPPED.
TREBLE RIVETED.

6" TO 4½" LAP DOUBLE RIVETED.

⑤ 68" TO 46" BUTTS OVERLAPPED QUADRUPE
RIVETED TO TREBLE RIVETED.

6" TO 4½" LAP DOUBLE RIVETED.

⑥ 68" TO 46" BUTTS OVERLAPPED
TREBLE RIVETED.

6" TO 4½" LAP DOUBLE RIVETED.

⑦ 68" TO 46" BUTTS OVERLAPPED QUADRUPE
RIVETED TO TREBLE RIVETED.

6" TO 5½" LAP DOUBLE RIVETED.

BILGE KEEL FITTED FOR
ABOUT 150° AMIDSHIP. 6'4" x 4'8" ANGLE.

SINGLE 6'6" x 4'8" ANG.
16-7/8" RIV. TO KNEE & TANK TOP.

TANK TOP RUN TO SHELL IN 1st HOLD ONLY.

⑧ 66" TO 4'8"

MARGIN ANG. 4'4" x 4'8"

PROPELLER BOSS PLATE 74"

BULKWARK STAY.

TANK SIDE IN N⁸ 1 HOLD.

S S HAGUE MARU

MIDSHIP SECTION

Kobe 2766.



008973-008981-0043



© 2021

Lloyd's Register
Foundation