

# S.S. "ALABAMA MARU."

## MIDSHIP SECTION.

### SCALE 1/2 INCH TO ONE FOOT.

SCANTLING NUMBERS.			
BREADTH (B)	61		
DEPTH (D)	+ 32.75		
LENGTH (L)	93.75	TRANSVERSE NUMBER	
	x 475.00		
	44,531.25	LONGITUDINAL NUMBER	

PROPORTIONS			
1/6 TO UPPER DECK	14.50		
1/6 TO SHELTER DECK	11.65		
1/6	7.79		
1/6 TO 2ND DECK	18.92		
	- 1.19	HALF HEIGHT OF EXCESS OF FRAME BRACKET.	
1/6 TO 3RD DECK	8.67		
	- 12	HALF HEIGHT OF EXCESS OF FRAME BRACKET.	
	8.55	FOR FRAME.	

EQUIPMENT NO.			
(B+D) x L			= 44,531.25
DECK ERECTIONS (475.00 + (34.75 + 86.21) x 7.5 + (30 x 7.75) x 1/2)			= 3,705.01
DECK HOUSES (56 x 7.75 + (72 x 4) x 1/2)			= 516.00
TOTAL			48,752.26

STEM 11' x 3' ROLLED STEEL.

STERN POST 11' x 3' CAST STEEL AS PER PLAN.

RUDDER SINGLE PLATE SYSTEM AS PER PLAN.

FRAMING—  
SPACING 28" APART FROM AFT PEAK BULKHEAD TO FINE 12, 36" FROM FINE 12 TO 10, 30"  
27" APART 1/2 L. FORWARD TO COLLISION BULKHEAD.  
24" APART IN BOTH PEAKS.

FRAMES IN BOTH PEAKS.  
FRAMES 8' x 3 1/2" x 48" B. ANGLE.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" ANGLE, SCARPHED.  
MAIN FRAMES IN AFT PEAK TANK 7' x 3 1/2" x 42" ANGLE TO BE DOUBLED  
WITH BACK BAR 3 1/2" x 3 1/2" x 42" ANGLE, AND REVERSED FRAMES.  
3' x 3 1/2" x 42" ANGLE TO BE FITTED TO FORM 7' GIRDER.  
FLOOR PLATE .40"

FRAMES IN TUNNEL RECESS.  
MAIN FRAMES 7' x 3 1/2" x 46" ANGLE WITH REVERSED FRAMES 4' x 3 1/2" x 46"  
ANGLE TO FORM 1/2" GIRDER.  
FRAMES IN WAY OF TUNNEL RECESS.  
FRAMES 12' x 3 1/2" x 37 1/2" x 47" CHANNEL.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" B. ANGLE, SCARPHED.  
FRAMES IN DEEP TANK.  
FRAMES 5' x 3 1/2" x 50" B. ANGLE WITH WEB FRAMES AS PER PROFILE.  
FRAMES ABOVE DEEP TANK.  
FRAMES 10' x 3 1/2" x 54" B. ANGLE.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" B. ANGLE, SCARPHED.  
FRAMES IN NO. 1 HOLD (IN WAY OF 3RD DECK).  
FRAME 10' x 3 1/2" x 46" B. ANGLE.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" B. ANGLE, SCARPHED.  
FRAMES IN WAY OF 27' F. SPACE EXCEPT WHERE 3RD DECK IS FITTED.  
FRAME 12' x 3 1/2" x 37 1/2" x 47" CHANNEL.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" B. ANGLE, SCARPHED.  
FRAMES OTHERWISE.  
FRAMES 12' x 3 1/2" x 37 1/2" x 47" CHANNEL.  
INTERMEDIATE FRAME 7' x 3 1/2" x 42" B. ANGLE.

EXTENSION OF MAIN FRAMES.  
IN WAY OF FLOOR OR EXTEND TOP OF 1/2" DECKS ALTERNATELY.  
IN NO. 1 HOLD (AFT FINE 150), EXTEND TO UPPER & 2ND DECKS.  
ALTERNATELY 1/2" TO SHELTER DECK AT EVERY 4TH FRAME.  
ABOVE DEEP TANK, EXTEND TO UPPER & 2ND DECKS ALTERNATELY 1/2"  
SHELTER DECK AT EVERY 4TH FRAME.  
OTHERWISE TO UPPER & 2ND DECKS ALTERNATELY 1/2"  
SHELTER DECK AT EVERY 4TH FRAME.  
IN WAY OF POOP DECK, EXTEND TO POOP & 2ND DECKS ALTERNATELY  
TRANSOM PLATE .52"  
WITH B. AS PER PLAN.

SHAFT TUNNEL.			
FRAMES	PLAT.	CURVED PLATES	STIFFENERS
17-20	48	40	8' x 3 1/2" x 48" BA 36"
20-30	46	40	6' x 3 1/2" x 42" BA 36"
30-35	46	40	6' x 3 1/2" x 42" BA 36"
35-40	46	40	7' x 3 1/2" x 42" BA 36"

IN WAY OF HATCHWAY TO BE COVERED WITH 2 OREGON PINE.

SHELTER DECK HOUSE FORE END B.H. (F.N. 100).  
PLATE .40" WITH COAMING PLATE .44"  
VERTICAL STIFFENER 7' x 3 1/2" x 48" ANGLE SPACED 36" BRACKETED AT  
TOP & BOTTOM.  
POOP FRONT B.H.  
PLATE .40" WITH COAMING PLATE .44"  
VERTICAL STIFFENER 7' x 3 1/2" x 42" ANGLE SPACED 36"

TANK TOP CEILING THROUGHOUT.

TANK TOP PLATING—  
MIDDLE LINE STRAKE.  
47' x 54" FOR 1/2 L. 44" AT ENDS.

.58" IN BOILER SPACE.  
BUTTS LAPPED & TREBLE RIVETED TO  
DOUBLE AT ENDS WHERE .48" & UNDER.  
OTHER STRAKES.  
.48" FOR 1/2 L. 44" AT AFT END  
.38" AT FORE END.  
.56" IN ENGINE SPACE.  
.58" IN BOILER SPACE.  
BUTTS LAPPED & DOUBLE RIVETED TO SINGLE  
AT FORE END WHERE .42" AND UNDER.

FORECASTLE DECK.  
BEAMS 10' x 3 1/2" x 76" BULB ANGLE TO ALTERNATE FRAMES WITH BRACKET KNEE 30' x 54" (3 ROW SIZE).  
STRINGER PLATE 38' x 36" BUTTS LAPPED & DOUBLE RIVETED.  
STRINGER ANGLE 3 1/2" x 3 1/2" x 38".  
DECK PLATING .30" BUTTS & EDGES LAPPED & SINGLE RIVETED, 36" UNDER WINDLASS.  
DECK PLANKING 2 1/2" OREGON PINE, 3" UNDER WINDLASS.

POOP DECK—  
BEAMS 10' x 3 1/2" x 76" BULB ANGLE WITH BRACKET KNEE 27' x 54" TO ALTERNATE  
FRAMES AT 24" FRAME SPACE AND TO EVERY FRAME AT 36" FRAME SPACE (3 ROW SIZE).  
STRINGER PLATE 38' x 38" BUTTS LAPPED & DOUBLE RIVETED.  
STRINGER ANGLE 3 1/2" x 3 1/2" x 38".  
THE PLATES 10' x 38" BUTTS LAPPED & DOUBLE RIVETED.  
DECK PLANKING 3" OREGON PINE.

DECK TO BE PLATED OVER ACCOMMODATION.  
2 1/2" OREGON PINE.  
PLATING .125"  
STRINGER ANGLE 3 1/2" x 3 1/2" x 34"

BOAT DECK BEAMS—  
60' x 3 1/2" BULB ANGLE SPACED ABOUT 4'-0"  
UNDER BOATCHUCKS TO BE DOUBLED.

SHELTER DECK PLATING—  
.50" (.46 BETWEEN OPENINGS) FOR 1/2 L. 8"  
.36" AT ENDS.  
BUTTS LAPPED & TREBLE RIVETED TO DOUBLE  
(WHERE .48" & UNDER) FOR 1/2 L. 8" DOUBLE  
RIVETED TO SINGLE (WHERE .42" & UNDER) AT ENDS.  
DECK PLANKING 3" THICK OREGON PINE WHERE  
EXPOSED & 2 1/2" THICK O.P. IN HOUSES.

SHUTTER DECK PLATING—  
.50" (.46 BETWEEN OPENINGS) FOR 1/2 L. 8"  
.36" AT ENDS.

SHUTTER DECK BEAMS—  
BEAMS IN WAY OF 36" FRAME SPACING 5' x 3 1/2" x 32" B.A. (3 ROW SIZE) & 5' x 3 1/2" x 50" B. ANGLE A-BEAST CASING (2 ROW SIZE)  
TO BE FITTED TO EVERY FRAME WITH BRACKET KNEE 27' x 50"

BEAMS IN WAY OF 27" FRAME SPACING 8' x 3 1/2" x 38" B. ANGLE TO BE FITTED TO EVERY FRAME WITH BRACKET KNEE 30' x 54"  
FLOOR 10' x 3 1/2" x 76" B. ANGLE TO BE FITTED TO ALTERNATE FRAMES WITH BRACKET KNEE 30' x 54"

ALL HATCH END BEAMS 10' x 3 1/2" x 76" B. ANGLE WITH REVERSED ANGLE 3 1/2" x 3 1/2" x 50"  
FROM HATCH WAY TO SHIP'S SIDE, BRACKET KNEE 30' x 54"

UPPER DECK PLATING—  
.40" FOR 1/2 L. 8" TO BE INCREASED AS PER PLAN.  
.32" AT ENDS.  
BUTTS LAPPED & DOUBLE RIVETED  
TO SINGLE (WHERE .42" & UNDER).

UPPER DECK BEAMS—  
BEAMS IN WAY OF 36" FRAME SPACING 9' x 3 1/2" x 38" B. ANGLE WITH  
BRACKET KNEE 28' x 50" TO BE FITTED TO EVERY FRAME (3 ROW SIZE)  
BEAMS IN WAY OF 27" FRAME SPACING 10' x 3 1/2" x 38" B. ANGLE WITH  
BRACKET KNEE 28' x 50" TO BE FITTED TO EVERY FRAME (2 ROW SIZE)

BEAMS IN WAY OF 27' & 24" FRAME SPACING 10' x 3 1/2" x 42" B. ANGLE  
WITH BRACKET KNEE 30' x 54" TO BE FITTED TO ALTERNATE FRAMES (3 ROW SIZE)  
BEAMS IN WAY OF COAL SPACE 5' x 3 1/2" x 50" B. ANGLE  
WITH BRACKET KNEE 30' x 50" TO BE FITTED TO EVERY FRAME

ALL HATCH END BEAMS 10' x 3 1/2" x 48" B. ANGLE WITH BRACKET KNEE 30' x 54" EXCEPT AT  
FINE 104 & 110 WHERE 12' x 3 1/2" x 77' x 47" CHANNEL WITH BRACKET KNEE 34' x 54"  
HALF BEAMS .45" PER DECK PLAN

BEAMS IN WAY OF NO. 1 HOLD FORWARD OF COLLISION B.H. 8' x 3 1/2" x 40" B. ANGLE  
WITH BRACKET KNEE 25' x 48" TO BE FITTED TO EVERY FRAME

2ND DECK PLATING—  
.32" THROUGHOUT EXCEPT WHERE OTHERWISE SPECIFIED  
BUTTS LAPPED & SINGLE RIVETED

2ND DECK BEAMS—  
BEAMS IN WAY OF 36" FRAME SPACING 10' x 3 1/2" x 50" B. ANGLE  
WITH BRACKET KNEE 31' x 50" TO BE FITTED TO EVERY FRAME (3 ROW SIZE)  
BEAMS IN WAY OF 27" FRAME SPACING 10' x 3 1/2" x 38" B. ANGLE WITH  
BRACKET KNEE 28' x 50" TO BE FITTED TO EVERY FRAME (2 ROW SIZE)

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WITH BRACKET KNEE 30' x 54" TO BE FITTED TO ALTERNATE FRAMES (3 ROW SIZE)  
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WITH BRACKET KNEE 30' x 54" TO BE FITTED TO ALTERNATE FRAMES (3 ROW SIZE)  
BEAMS IN WAY OF COAL SPACE 5' x 3 1/2" x 50" B. ANGLE  
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WITH BRACKET KNEE 30' x 54" TO BE FITTED TO ALTERNATE FRAMES (3 ROW SIZE)  
BEAMS IN WAY OF COAL SPACE 5' x 3 1/2" x 50" B. ANGLE  
WITH BRACKET KNEE 30' x 50" TO BE FITTED TO EVERY FRAME

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BEAMS IN WAY OF 27' & 24" FRAME SPACING 10' x 3 1/2" x 42" B. ANGLE  
WITH BRACKET KNEE 30' x 54" TO BE FITTED TO ALTERNATE FRAMES (3 ROW SIZE)  
BEAMS IN WAY OF COAL SPACE 5' x 3 1/2" x 50" B. ANGLE  
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BUTTS LAPPED & SINGLE RIVETED

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WITH BRACKET KNEE 31' x 50" TO BE FITTED TO EVERY FRAME (3 ROW SIZE)  
BEAMS IN WAY OF 27" FRAME SPACING 10' x 3 1/2" x 38" B. ANGLE WITH  
BRACKET KNEE 28' x 50" TO BE FITTED TO EVERY FRAME (2 ROW SIZE)

SHELTER DECK HOUSE SIDE PLATING—  
34" BUTTS & EDGES LAPPED & SINGLE RIVETED.  
FRAMES 8' x 3 1/2" x 34" ANGLE SPACED 36" APART.  
NO CONNECTION TO SHELTER DECK.  
FORECASTLE DECK SIDE PLATING—  
44"

BUTTS LAPPED & DOUBLE RIVETED.  
SEAM LAPPED & SINGLE RIVETED  
POOP DECK SIDE PLATING—  
40"

BUTTS LAPPED & DOUBLE RIVETED.  
SEAM LAPPED & SINGLE RIVETED.  
BULKWARK PLATING—  
22"

BUTTS LAPPED & SINGLE RIVETED.

SHELTER DECK SHEER STRAKE—  
50' x 86" FOR 1/2 L. 8" .48" AT ENDS (24" FRAME SPACE)  
.52" AT END OF AFT BODY IN WAY OF 36" FRAME SPACE  
.20" INCREASED IN THICKNESS IN WAY OF  
BRIDGE.

BUTTS LAPPED & QUINTUPLE RIVETED.  
FOR 1/2 L. 8" & LAPPED QUADRUPLE RIVETED  
TO TREBLE (WHERE .68" AND UNDER) AT ENDS.  
STRAKE BELOW SHEER STRAKE.

50' x 78" FOR 1/2 L. 8" .48" AT ENDS (24" FRAME SPACE)  
.52" AT END OF AFT BODY IN WAY OF 36" FRAME SPACE.  
BUTTS LAPPED & QUADRUPLE RIVETED TO TREBLE  
(WHERE .68" AND UNDER) AT ENDS.

OUTSIDE PLATINGS.  
G.H. J.L. M. & N. STRAKES.  
.78" FOR 1/2 L. 8" .48" AT ENDS (24" FRAME SPACE)  
.56" AT END OF AFT BODY IN WAY OF  
36" FRAME SPACE.

BUTTS LAPPED & QUADRUPLE RIVETED TO  
TREBLE RIVETED (WHERE .68" AND UNDER)  
AT ENDS.

3RD DECK STRINGER PLATE (F.N. 136 FORWARD ONLY)  
38' x 44"  
BUTTS LAPPED & TREBLE RIVETED.  
STRINGER ANGLE 4' x 4' x 44"

DEEP TANK TOP STRINGER PLATE.  
50' x 44" BUTTS LAPPED & TREBLE RIVETED.  
STRINGER ANGLE 4' x 4' x 50"

TREBLE RIVETED FOR 115'-0" ABOUT  
AT FORE & AFT BODIES.

PROPELLER ROSS PLATES, 8" FURNACE PLATE ONLY.  
BUTTS LAPPED & QUADRUPLE RIVETED OR TREBLE  
RIVETED WITH DOUBLE BUTT STRAPS.

FRAME TO TANK SIDE BRACKET.  
22 RIVETS WHERE 36" FRAME SPACING.  
16 RIVETS " 27" " " "

3 1/2" x 3 1/2" x 46" SINGLE ANGLE FOR 1/2 L. 8"  
.44" " " " AT ENDS.  
.56" " " " IN B. SPACE  
TO BE FITTED TO EVERY FRAME EXCEPT  
NO. 1 HOLD WHERE TO EVERY SECOND FRAME.

6' x 6' x 52" SINGLE FOR 1/2 L. 8"  
.50" AT ENDS.  
.56" IN BOILER SPACE  
18' x 3/8" DIA. RIVETS IN WAY OF 36" FRAME SPACING  
12' x 3/8" DIA. " " " 27" " " " 36" DE.

3 1/2" x 3 1/2" x 46" FOR 1/2 L. 8"  
.44" AT ENDS.

BILGE KEEL  
3' x 5' x 50" ANGLE WITH 11' x 60" FLAT BAR & 3 1/2" HOLE OVAL BARS  
TO FORM 12" GIRDER.

TANK SIDE BRACKET CONNECTION.  
IN WAY OF NO. 1 HOLD.  
SCALE 1/2 TO ONE FOOT.

TANK GUSSET ANGLE  
3 1/2" x 3 1/2" x 46" SINGLE ANGLE  
TO BE FITTED TO EVERY  
2ND FRAME.

INTERMEDIATE FRAMING.

NO MANHOLE UNDER V.S. BOLLER.

OUTSIDE PLATING  
A, B, C, D, E, F STRAKES, 80" FOR 1/2 L. 8" .60" AT 36" FRAME SPACING.  
.52" AT 24" FRAME SPACING.  
BUTTS LAPPED & QUADRUPLE RIVETED TO TREBLE AT ENDS.  
(WHERE .68" AND UNDER).

3' x 6"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

4' x 4"

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4' x 4"



Midship Section.

S.S. No. 281.

Mitsubishi Gosen Kaisha.

Nagasaki Report, No. 1303.

REMAIN



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Lloyd's Register  
Foundation

W676-0287