

MIDSHIP SECTION.

S.S. "HALCYON" *to Build*

Yard No 370

DIMENSIONS: 270' 0" BP x 39' 0" BM x 17' 0" DM to UPPER DECK. 24' 9" DM to SHELTER DECK.

TO CLASS 100 A1 AT LLOYD'S SHELTER DECK.

SCALE 1/2 INCH = 1 FOOT.

LLOYD'S NUMERALS

TRANSVERSE NO.	56
LONGITUDINAL NO.	15120
B TO UPPER DECK	15 88
B TO SHELTER DECK	10 92
d WHERE NO LOWER DECK FITTED	14 25
d WHERE LOWER DECK FITTED	7 25

EQUIPMENT NUMERALS

L x (B + D).	15120
SHELTER DECK (270' x 7' 75" x 75")	1509
BRIDGE DECK (32' x 7' 5" x 75")	405
CAPTAIN'S HOUSE ON BRIDGE DECK (15' x 7' 5" x 5')	56
STEERING GEAR HOUSE (27' x 7' 25" x 5')	98

EQUIPMENT NO. = 17248

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- 3 BOWER ANCHORS EACH 33 3/8 CWTs STOCKLESS
- 1 STREAM ANCHOR 9 1/4 CWTs EX STOCK
- 1 KEDGE ANCHOR 4 3/4 CWTs EX STOCK
- 240 FATHOMS 1 1/16" STUD CHAIN CABLE
- 75 FATHOMS 1 1/16" STREAM CHAIN
- 90 FATHOMS 3/16" STEEL WIRE TOWLINE
- 2 EACH 90 FATHOMS 2 1/2" STEEL WIRE HAWSERS
- 2 EACH 90 FATHOMS 6" MANILLA HAWSERS
- 2 EACH 90 FATHOMS 5" MANILLA WARPS

SHELTER DECK

BEAMS WITH 1 ROW OF PILLARS 5/16" x 3" x 40" BA
BEAMS WHERE NOT EXCEEDING 2 1/2 L. BEAM 5/16" x 3" x 40" ANGLE
BEAMS WHERE NOT EXCEEDING 1 1/2 L. BEAM 5/16" x 3" x 30" ANGLE
BEAMS WITH 2 ROWS OF PILLARS (IN WAY OF HATCHWAYS + E + B OPENINGS) 5/16" x 3" x 40" ANGLE
BEAMS AT ENDS OF HATCHWAYS 8" x 5" x 40" BA KNEES 20" x 40"
BEAM KNEES 15" x 40" ALL FORE AND AFT. 4-3/4 RIVETS
STRINGER PLATE 56" x 48" FOR 1/2 L. TO 36" AT ENDS. 66" AT BREAK
STEEL DECK 30 COMPLETE
STRINGER ANGLE 4" x 4" x 48" FOR 1/2 L. TO 4" x 3" x 30" AT ENDS
GUTTER ANGLE 3" x 2 1/2" x 40" 3" TO DECK
WOOD DECK 5 x 5 PITCH PINE 8 x 3 TEAK MARGIN.

UPPER DECK

BEAMS WITH 1 ROW OF PILLARS 5/16" x 3" x 40" BA
BEAMS WHERE NOT EXCEEDING 2 1/2 L. BEAM 5/16" x 3" x 34" BA
BEAMS WHERE NOT EXCEEDING 1 1/2 L. BEAM 5/16" x 3" x 30" ANGLE
BEAMS WITH 2 ROWS OF PILLARS (IN WAY OF HATCHWAYS + E + B OPENINGS) 5/16" x 3" x 40" ANGLE
BEAMS AT ENDS OF HATCHWAYS 8" x 5" x 40" BA KNEES 21" x 44"
BEAM KNEES 10" x 40" ELSEWHERE 4-3/4 RIVETS
STRINGER PLATE 43 x 38" FOR 1/2 L. TO 36" AT ENDS.
STEEL DECK 30 COMPLETE
STRINGER ANGLE 3 1/2" x 3 1/2" x 38" FOR 1/2 L. TO 36" AT ENDS
WOOD DECK IN WAY OF HORSE STALLS 5 x 5 PINE, 1/2 TEAKID IN CREWS SPACE.

LOWER DECK

BEAMS WITH 1 ROW OF PILLARS 9" x 3 1/2" x 3 1/2" x 48" CHANNEL
BEAMS WITH 2 ROWS OF PILLARS IN WAY OF HATCHWAYS 8" x 3" x 40" CHANNEL
BEAM KNEES 24" x 50" 5-7/8 RIVETS
STRINGER PLATE 30" x 38" FOR 1/2 L. TO 24" x 36" AT ENDS
TIE PLATES 11" x 38" 18" x 38" AT SIDES OF HATCH.
STRINGER ANGLE 3 1/2" x 3 1/2" x 38" FOR 1/2 L. TO 36" AT ENDS
WOOD DECK 8 7/8" x 3" W.PINE, 9" x 3 1/2" P.PINE WATERWAY PLANK.

ITEM	1/2 LEN. M.	AT ENDS	ENGINE SPACE	BOILER SPACE	REMARKS
FLOORS	38	38	57	57	
CENTRE GIRDER	35 x 44	36	4	54	
C.G. TOP ANGLES	5 x 3 x 40	40	40	50	DOUBLE
C.G. BOTTOM ANGLES	4 x 4 x 50	48	56	50	DOUBLE
C.G. VERTICAL ANGLES	3 x 3 x 32	3 x 3 x 32	4 1/2 x 4 1/2 x 42	4 1/2 x 4 1/2 x 42	SINGLE
SIDE GIRDER	38	38	57	57	
S.G. TOP ANGLE	5 x 3 x 38	38	56	48	SINGLE
S.G. BOTTOM ANGLES	5 x 3 x 38	38	36	36	SINGLE
S.G. VERTICAL ANGLES	2 1/2 x 2 1/2 x 38	2 1/2 x 2 1/2 x 38	3 x 3 x 36	3 x 3 x 48	SINGLE
WING BRACKETS	32	32	36	42	FLANGED 3/16 ON TOP
TANK FRAMES	3 1/2 x 3 x 38	38	30	36	SINGLE
TANK REV FRAMES	3 x 3 x 38	3 x 3 x 38	3 1/2 x 3 x 30	3 x 3 x 48	RIGHT WTS TO 1/2 OUTSIDE OF UPPER WTS 26 1/2 x 3 1/2 x 18 DOUBLE UNDER BULKHEADS TO MARGIN DEPTH MAINTAINED FROM FORE END TO 1/2 AFT. TANK REQUIRED TO 2 1/2" AT AFT. END
MARGIN PLATE	30 x 30	30	36	46	
MARGIN SHELL ANGLE	3 1/2 x 3 1/2 x 36	36	36	36	SINGLE
MARGIN VERTICAL ANGLES	3 x 3 x 32	32	32	42	SINGLE
TANK TOP MIDDLE LINE STRAKE	72 x 38	34	38	50	
TANK TOP PLATING	32	30	38	50	
TANK TOP PLATING UNDER ENGINE SOLE			40		

NOTE: STRAKES C & F INCREASED 66 BETWEEN PEAK BULKHEADS IN LIEU OF SIDE STRINGER. STRAKE G INCREASED 64 WHERE NO LOWER DECK IN LIEU OF SIDE STRINGER.

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OWNER'S ADDITIONS

THE SCANTLINGS INDICATED INCLUDE THE FOLLOWING ADDITIONS REQUIRED BY OWNERS -
THICKNESS OF FLOORS, INTERCOSTALS + CONNECTIONS, FRAMES + REVERSE FRAMES IN DOUBLE BOTTOM + FRAMES IN CROSS BUNKER TO BE 20% IN EXCESS OF LLOYD'S REQUIREMENTS EXCEPT IN E + B SPACES.
FLOORS + INTERCOSTALS IN DOUBLE BOTTOM IN E + B SPACES TO BE 1/4" THICKER THAN LLOYD'S REQUIREMENTS FOR HOLD.
THICKNESS OF FRAMES, REVERSE FRAMES + CONNECTION ANGLES IN DOUBLE BOTTOM IN E + B SPACES TO BE 15% IN EXCESS OF LLOYD'S REQUIREMENTS.
TANK TOP TO BE 1/16" THICK UNDER BOILERS.
FRAMES ALL TO BE OF BULB ANGLE SECTION.

RIVETING

END CONNECTIONS	FOR 1/2 LEN. M.	AT ENDS
KEEL	QUADRUPLE RIVETED STRAPS	TREBLE RIVETED STRAPS
SHELTER DECK SHEERSTRAKE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
STRAKE BELOW SHELTER DECK SHEERSTRAKE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
UPPER DECK SHEERSTRAKE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
OUTSIDE PLATING FROM KEEL TO UPPER TURN OF BULGE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
OUTSIDE PLATING FROM UPPER TURN OF BULGE TO UPPER DECK SHEERSTRAKE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
SHELTER DECK STRINGER	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
SHELTER DECK PLATING	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
UPPER DECK STRINGER	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
UPPER DECK PLATING	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
LOWER DECK STRINGER	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
LOWER DECK TIE PLATES	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
CENTRE GIRDER	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
MARGIN PLATE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
TANK TOP MIDDLE LINE STRAKE	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
TANK TOP PLATING	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS
BOSS PLATES	TREBLE RIVETED STRAPS	DOUBLE RIVETED STRAPS

EDGE CONNECTIONS

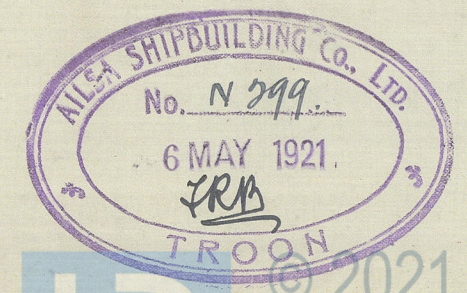
KEEL LANDINGS DOUBLE RIVETED ALL FORE AND AFT.
SHELTER DECK SHEERSTRAKE, STRAKE BELOW SHELTER DECK SHEERSTRAKE AND UPPER DECK SHEERSTRAKE LANDINGS, DOUBLE RIVETED ALL FORE AND AFT.
EDGES OF OUTSIDE PLATING FROM KEEL TO UPPER TURN OF BULGE DOUBLE RIVETED ALL FORE AND AFT.
EDGES OF OUTSIDE PLATING FROM UPPER TURN OF BULGE TO UPPER DECK SHEERSTRAKE DOUBLE RIVETED ALL FORE AND AFT.
EDGES OF ALL DECK STRINGERS AND PLATING SINGLE RIVETED ALL FORE AND AFT.
EDGES OF MIDDLE LINE STRAKE OF TANK TOP PLATING SINGLE RIVETED, DOUBLE RIVETED IN WAY OF ENGINE SOLE AND BOILER ROOM.
EDGES OF TANK TOP PLATING SINGLE RIVETED, DOUBLE IN WAY OF ENGINE SOLE.

SIDE FRAMING

FRAMES SPACED 23" APART ALL FORE AND AFT.
FRAMES IN PEAKS 5/16" x 3" x 40" BULB ANGLE
FRAMES IN WAY OF TUNNEL COMPARTMENT WHERE LOWER DECK FITTED (d = 7 25) 5/16" x 3" x 40" BULB ANGLE
FRAMES WHERE NO LOWER DECK FITTED (d = 14 25) 7" x 3" x 42" BA
FRAMES IN COAL BUNKER 7" x 3" x 50" BULB ANGLE
FRAMES EXTEND TO SHELTER DECK STRINGER PLATE
FLOORS IN PEAKS 34" FLANGED 3 ON TOP

FORGINGS

STEM 7 1/2" x 2 3/8" TAPERING TO 5 3/4" x 2 3/8" AT HEAD
PROPELLER POST 7 1/2" x 5 1/2"
RUDDER POST 6 3/4" x 5 1/2"
RUDDER STOCK 8 1/2" DIA
PROPELLER BOSS PLATES 56"



003742-003749-0156

S/S. "Halcyon"

Aelia Co. No. 370.

Midship Section. (as built.)

MN.

"ZAMELAK"

GLASGOW REPORT No. 41409.

RETAIN

003742-003749-0156

Lloyd's Register
Foundation