

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

1135

STEAMER, ~~TANKER~~, ~~SAILER~~: "COBARGO" T.S.S. ✓ WITH ~~WITHOUT~~ TIMBER DECK CARGO
 Nationality *British* Builders' Name and No. of Ship *Ailsa S.B.B. Ltd. Ayr. N°. 410*
 Port of Registry *Sydney N.S.W.* ✓ Official Number *155346* ✓ Owners *Illawarra + South Coast S.N.B. Ltd.*
 Gross Tonnage *860* ✓ Port and Date of Survey *Sydney 3/27/36*
 Date of Build *5/1929* Name of Surveyor *William T. Howell*
 Particulars of Classification *B.S.** Names of Sister Ships

Type of Superstructures *Quarter, Bridge + Forecastle*

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

On top of 7'3" casing; hinged steel covers permanently attached.

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

None

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

*Freeboard Deck (4) 3'-4" wooden plugs, Canvas covers. Storehold (2) 4'-4"
 Raised Quarter + Superstructure Decks (6) 2'-6" - 4" Engine Room (2) 4'-4"*

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

*2 aft 1' above Deck
 2 amidships 1' above deck
 2 Forecastle Head 1' above deck* } *goose neck caps. Wooden plug*

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

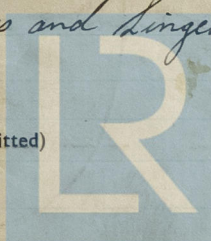
12 Scuppers, Cast Iron

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Pile space: - circular lights, brass frames and hinged deadlights.

Guard Rails on freeboard and superstructure decks (state type and where fitted)

On R. & P. aft 3'-9" high 4 rods.



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COMPUTATION OF FREEBOARD.

Length on summer load line 190.0' Moulded Breadth 34'-4" Moulded Depth 11'-6" Depth of Keel

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 1244 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .683 \checkmark$ T.C. 74

Displacement and tons per inch immersion in salt water at summer load line 1452 @ 12.5

Moulded depth 11.5' ✓ Deduction for Fresh Water $\frac{\Delta}{40T} = 2.904 \checkmark = 3$ inches

Stringer Plate .5' ✓ .042 ✓ Round of Beam Correction

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right) \checkmark$ Ships' Round of Beam 8.5 inches

Rise of floor (in sailers) ✓ Standard Round of Beam $\frac{B \times 12}{50} = 8.24$

Depth for Freeboard (D) 11.542' ✓ 12.667' Difference 26'

Table Depth 12.667' ✓

Depth Correction $\frac{L}{120} \times \frac{12.667}{1.125} \checkmark$ Restricted to

Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{F}{L}\right) = .065 \times .2438 = .0158$

* restricted by superstructures to 0

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Reep						
Raised Quarter Deck	95.04 ✓	F 25	4.0 ✓	95.04 ✓	—	95.04
Bridge	15.75 ✓	A —	11.3 ✓	16. ✓	—	15.88
Forecastle <i>sides</i>	33. 8 ✓	25	71.3 ✓	33.96 ✓	—	32.77 ✓
Trunk Aft	71 ✓					
„ Forward						
Tonnage Opening Aft						
„ „ Forward						
Totals				145. ✓		143.69

Standard Height of Superstructure 6.0 ✓
 " " R.Q.D. 3.6 ✓
 Percentage covered S/L = 76.3 ✓
 " " E/L = 75.62 ✓
 " from Table line A, B, (corrected for
 absence of forecastle if required) 69.126 ✓
 Percentage from Table by interpolation for Bridge
 less than 2L if required =
 Deduction = $25 \times 69.126 = 17.281$ ✓
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	33"	29 ✓	29	1	29
$\frac{1}{8}$ L from A.P.	13'	12.9 ✓	12.9	4	51.6
$\frac{1}{8}$ L from A.P.	3.5	3.19 ✓	3.19	2	6.38
Amidships	0.	0	0	4	0
$\frac{1}{8}$ L from F.P.	6.	6.38 ✓	6	2	12.
$\frac{1}{8}$ L	23.75	25.8 ✓	23.75	4	95.
F.P.	57"	58 ✓	57	1	57.

$$\frac{\text{Mean Actual shear aft}}{\text{,, Standard ,,}} = \text{over 1}$$
$$\frac{\text{Mean Actual shear forward}}{\text{,, Standard ,, ,,}} = \text{under 1}$$
$$\frac{\text{Length of enclosed superstructure forward of admidships}}{\text{Length of Ship}} = \quad \checkmark$$
$$\frac{\text{Length of enclosed superstructure aft of amidships}}{\text{Length of Ship}} = \checkmark$$
$$\text{Shear Correction} = \text{Difference} \times \left(75 - \frac{S}{2L}\right) = .558 \times .3685 = .193$$

„ to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Effective Mean Sheer	=	13.942 ✓
Standard " " .05L + 5	=	14.5 ✓
		<hr/>
Difference		.558

TABULAR FREEBOARD corrected for flush deck if required = 21.4 ✓

Correction for co-efficient = $\frac{1.363}{1.36} = 2.45$

= 21.45 ✓ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction		
Deduction for superstructures		17.28 ✓
Sheer correction	.20 ✓	
Round of Beam correction		.02 ✓
Correction for thickness of deck amidships ✓		
Other corrections, scantlings, etc. ✓		
	.20	17.30

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	11.542 ✓	
Summer Freeboard in feet	3.62 ✓	
Moulded Draught (d)	11.18 ✓	(d1)
Addition for Keel		
Extreme draught	12.2 1/2	
Deduction for Tropical and addition for Winter freeboard $d/4 =$	2.795 ✓	ins.
Addition for Winter North Atlantic (if required)		-4.795 ins.
Deduction for Tropical Timber Freeboard $d/4 =$		ins.
Addition for Winter " " $d/4 =$		ins.
" " N.A. Timber Freeboard (if required)		ins.

Summer Freeboard in inches	=		4.35
Additional allowance for superstructures on			<u>2.79</u>
Timber carrying ships	=	W	<u>7.14</u>
Summer Timber Freeboard in inches	=	T	1.50

tion for Winter freeboard $d/4 = 2.795$ ins.

Antic (if required) $= 4.795$ ins.

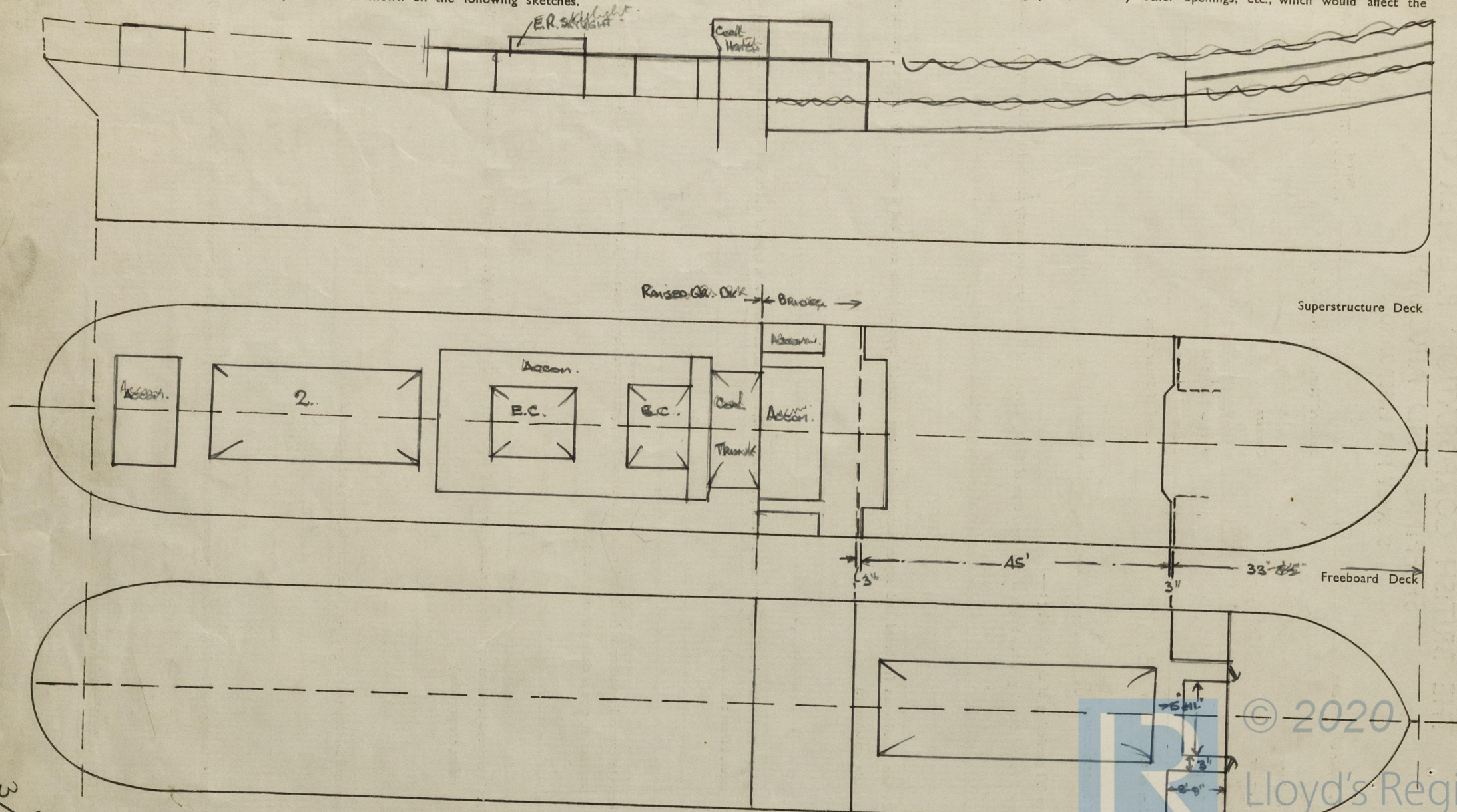
Freeboard $\frac{d}{4} =$ ins.

" $\frac{d}{3} =$ ins.

ber Freeboard (if required)

$$2/4$$

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches.



3/4

Statement of special features in the construction of the ship

8.75 x 3.0	25.25	33.71
5.5 x 1.75	9.63	1.06
mean 15.2	32.13	32.85
	2.11	.12
	1.056	32.97

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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	UPPER DK 1	Quarter DK. 2	Coal Hatch Casing Top.						
Dimensions of Hatchway	40'-3" x 14'-0"	29'-9" x 14'-0"	9' x 11'						
COAMINGS {	Height above wood steel { deck	48"	48"	7' 0"					
	Thickness { sides ends	.5 .44	.5 .44	3/8" - 3/8"					
	Stiffeners	9 x 3 x .5 BA	sides & ends	3" x 2 1/2" - 5/16					
	Brackets or Stays	5 x 3 x .4 BA	about 10'						
HATCH BEAMS {	Number	7	4						
	Spacing	5'-0 3/8"	5'-11"	nil.					
	Scantling and Sketch	12 x 32 3 x 3 x 42 as No. 1							
	Bearing Surface and thickness of carriers or sockets	3"	3" 3/8						
FORE AND AFTERS {	Number								
	Spacing								
	Unsupported lengths								
	Scantling and Sketch								
HATCH COVERS {	Bearing Surface and thickness of carriers or sockets								
	Material	Pine	Pine	Wood.					
	Thickness	3"	3"	2 1/2"					
	How Fitted	F. + A.	F. + A.	F. + A.					
	Bearing Surface	3"	3"	3"					
	Spacing of Cleats	24"	24"	24"					
	Number of Tarpaulins	3	3	3					

Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?

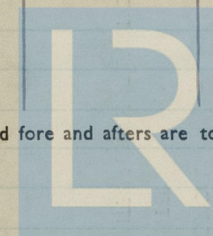
Are tarpaulins in good condition and in accordance with rule requirements

Are lashings provided in accordance with rule requirements?

— nil.

Yes.
Yes.
Yes.

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]



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Gangway and Lifelines

port side on
 Rails & stanchions fitted on port side on top of hatch in forewell.
 to form gangway & ladders fitted from hatch ends
 to bridge & fore-castle decks.

Gangway, Cargo and Coaling Ports in sides of ship

none.

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

Is provision made for protection of steering gear, and is emergency steering gear provided?

Are efficient uprights, sockets and lashings provided according to rules?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 22nd April 1956



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J. R. K. Chief Surveyor.

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B. H. Caslow Secretary.

Accepted 7/4/36

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)		0'-4 1/2"
TROPICAL FRESH WATER LINE above centre of disc	5 1/2"	0'-1"
FRESH WATER LINE	3"	0'-1 1/2"
TROPICAL LINE	2 1/2"	0'-2"
WINTER LINE below	2 1/2"	0'-7"
WINTER NORTH ATLANTIC LINE	4 1/2"	0'-9"

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line

TROPICAL FRESH WATER Timber line above centre of disc		Corresponding Freeboard
FRESH WATER		
TROPICAL		
WINTER		
WINTER NORTH ATLANTIC		

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead	✓	.408	4x3x.34	27"	—	none	—	—
" Forward "		.34	[7x3x35	30"	Lugged	2 @	—	—
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on	✓	.24	3 1/2 x 3 x 3/8	27" & 30"	Bars on top	None	—	7 1/2"
Freeboard on R.Q. Deck								
Exposed Machinery Casings on								
superstructure decks								
Machinery Casings within Super-								
structures not fitted with Cl. 1.								
closing appliances								
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	No openings
" Forward "	No openings
Forecastle Bulkhead	Hinged W.T. doors, steel
Exposed Machinery Casings on	wood doors
Freeboard on R.Q. deck	No openings
Exposed Machinery Casings on	No openings
superstructure decks	
Machinery Casings within super-	
structures not fitted with Cl. 1.	
Closing Appliances	
Deck houses on Flush Deck ships	

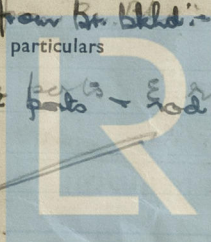
PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	45'-0"	4'-8"	2 @ 2.5 x 2.0, 1 @ 2.5 x 1.0	11.5 sq	11.0 sq
Forward Well	45'-0"	4'-8"	2 @ 2.5 x 2.0, 1 @ 2.5 x 1.0	11.5 sq	11.0 sq
State fore and aft position and height above					
deck to bottom of port, for each port					

State whether freeing ports are fitted with shutters, bars or rails, and give particulars

Hinged shutters & 2 horizontal rods over large ports - 1 rod across opening of small port.

Give particulars of freeing port area, etc., on superstructure decks



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