

sent to B. O. T. on 13 AUG 1934

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

894.

STEAMER, ~~TANKER~~, ~~SAILER~~ "COLLIN" S.S. ^{WITH} ~~WITHOUT~~ TIMBER DECK CARGO
 Nationality British Builders' Name and No. of Ship A. Jeffrey & Co. Alcoa
 Port of Registry Belfast v BRISTOL 11.6.41 No. 14
 Official Number 136355 Owners A. St. Smith Bristol
 Gross Tonnage 287.49 THE ISABEL STEAMSHIP CO. LTD. CARDIFF
 Date of Build 12/1915 Port and Date of Survey Mplodore 22/11/33
 Name of Surveyor Joseph H. St. Albart
 Particulars of Classification B.S. Names of Sister Ships

Type of Superstructures Raised Quarter Deck, Bridge and Forecastle

Give full particulars of the following:—

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

Fiddle coamings 2", on top of 6'9" coaming, with hinged steel plate covers, no funnel coamings ✓

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment) Two in quarter deck of card iron, 14" dia, secured by chain fastenings

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) Ventilators in hull 36" high, rivets 4" pitch, on fore deck 24", have gumbel 12" all with flap & canvas cover, goose neck on fore 30" with canvas cover, 8" on bridge deck with mushroom cover

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided) on fore deck 4" high with canvas covers on Raised Quarter Deck 30" high with canvas covers

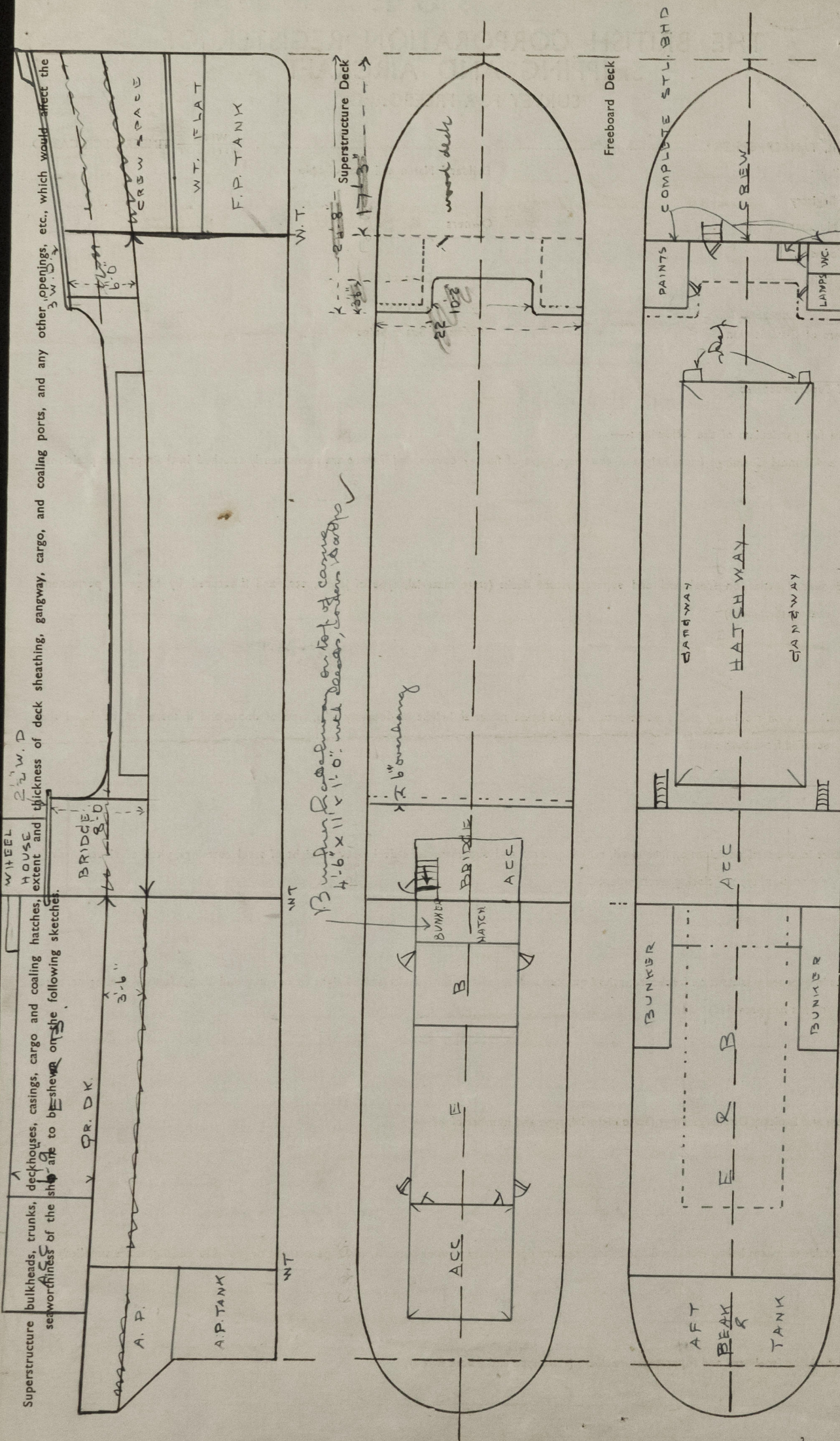
Scuppers and Sanitary Discharge Pipes (state material, type and number of valves) Scuppers formed through bulwark angle. Sanitary discharge from starboard side of fore + 12" above freeboard deck, & one from above quarter deck accessible from engine room with lead pipe & slack valve in casing discharges 18" below Dr. Drk

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

In fore sides 8" dia with hinged deadlights, 8" in ends of fore side houses, 11" dia in fore & aft ends of bridge no deadlights, 11" dia in fore

Guard Rails on freeboard and superstructure decks (state type and where fitted) on fore deck, 2 bar type

36" high, bulwarks standard



COMPUTATION OF FREEBOARD.

Length' on summer load line $120'5$ Moulded Breadth $22'0$ Moulded Depth $10'0\frac{3}{8}$ Depth of Keel $7'$ bar

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

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = 10.77$

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

Moulded depth $10'0\frac{3}{8}$ $10'0\frac{38}{30}$ Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches

Stringer Plate Round of Beam Correction

Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ $10'$ Ships Round of Beam $6'$ inches

Rise of floor (in sailers) Standard Round of Beam $\frac{8 \times 12}{50}$

Depth for Freeboard (D) Difference

Table Depth Restricted to

Depth Correction Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) -$

If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	Standard Height of Superstructure
Peep							" " R.Q.D.
Raised Quarter Deck	42' ✓	F	3' 5' ✓				Percentage covered S/L =
Bridge	8' 75" A		8' 21"				" " E/L =
Forecastle	24' 04" 17' 04" cloud		6' 25"				" " from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than 2L if required =
" Forward							Deduction =
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
" Forward							Deduction =
Totals							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	20 ✓			1	
1/8 L from A.P.	6.5			4	
1/2 L from A.P.	1.5			2	
Amidships	0.			4	
1/2 L from F.P.	4			2	
1/8 L	16			4	
F.P.	40 ✓			1	
				18	

Effective Mean Sheer	=	
Standard " "	=	0.5 L + 5
Difference	=	

Mean Actual sheer aft	=	
" " " "	=	
Mean Actual sheer forward	=	
" " " "	=	
Length of enclosed superstructure forward of amidships	=	Length of Ship
Length of enclosed superstructure aft of amidships	=	Length of Ship
Sheer Correction = Difference X (75 - $\frac{S}{2 L}$)	=	
If limited on account of midship superstructure	=	
" to maximum allowance of 1 1/2 ins. per 100 ft.	=	

TABULAR FREEBOARD corrected for flush deck if required =
Correction for co-efficient =

- Depth correction
- Deduction for superstructures
- Sheer correction
- Round of Beam correction
- Correction for thickness of deck amidships
- Other corrections, scantlings, etc.

Summer Freeboard in inches

Additional allowance for superstructures on

Timber carrying ships

Summer Timber Freeboard in inches

DRAUGHTS AND SEASONAL CORRECTIONS

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	10-0.68	
Summer Freeboard in feet	7.50	
Moulded Draught (d)	9-5.18	(d1)
Addition for Keel	7.	
Extreme draught	10'-0	

Deduction for Tropical and addition for Winter freeboard $d/4 =$	ins.
Addition for Winter North Atlantic (if required)	ins.
Deduction for Tropical Timber Freeboard $\frac{d}{4}$	ins.
Addition for Winter " " $\frac{d}{3}$	ins.
" " N.A. Timber Freeboard (if required)	ins.

27/11/33. "and only so long as the ship is employed
in the Home Trade"

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)				
TROPICAL FRESH WATER LINE above centre of disc				
FRESH WATER LINE	..	..	..	2 1/2"
TROPICAL LINE	..	..	..
WINTER LINE	below	..	..	1 1/2"
WINTER NORTH ATLANTIC LINE	..	..	..
SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line				
TROPICAL FRESH WATER Timber line above centre of disc				
FRESH WATER	..	..	..	..
TROPICAL	..	..	..	..
WINTER	..	below	..	..
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. "						none	—	—
Bridge Aft Bulkhead						none	—	—
" Forward "	3'	25"	4x2½x35BA	24"	Plates top & bottom	none	—	—
Forecastle Bulkhead	—	25"	4½x3x4	36	none	1c 4'6"x1'8"	12"	—
Trunk, Aft								
" Forward								
Exposed Machinery Casings on } Freeboard or R.Q. Decks	3'	25"	2½x2½x25	39"	Plates at top & bottom	2c 4'6"x1'7"	19"	6'9"
Exposed Machinery Casings on } superstructure decks						2c 4'6"x1'9"	18"	—
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	_____
" Forward "	_____
Forecastle Bulkhead	_____
Exposed Machinery Casings on Freeboard or R.Q. decks	_____
Exposed Machinery Casings on 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 <i>R. & B.</i>	<i>42</i>	<i>2 c 2' 5" x 1' 25"</i>	<i>11.25</i>	
Forward Well	<i>44.58</i>	<i>4 c 2' 3" x 1' 4"</i>	<i>12.33</i>	<i>10.7</i>
State fore and aft position and height above deck to bottom of port, for each port	After Well	<i>aft of bulwark 8' 16" x 23' each 8" do rail</i>		<i>10.96</i>
	Forward Well	<i>fore of bulwark 7' 18" x 28' 1/2 x 35' 3/4 do rail</i>		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars				

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

Number and description of Hatchway from forward	Dimensions of Hatchway				Number	Spacing	Unsupported lengths	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Material	Thickness	How Fitted	Bearing Surface	Spacing of Cleats	Number of Tarpaulins
	Height above deck	Width	Thickness	Stiffeners											
COAMINGS	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
HATCH BEAMS	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
FORE AND AFTERS	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
HATCH COVERS	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2
	2' 6"	38' 6" x 14' 1"	.45"	none	3	8' 10"	7' 15" x 3' 4"	19' x 4"	2' 6" x 10' 6"	W. Wood	2 1/2"	Shrinkage	2"	2 1/2"	2

Are wood fore and afters steel shod at all bearing surfaces? *yes*Are battens and wedges efficient and in good condition? *yes*Are tarpaulins in good condition and in accordance with rule requirements? *yes*Are lashings provided in accordance with rule requirements? *yes*

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

Gangways and Lifelines

Gangway formed by ladderway in fore well
~~and a through ladderway in fore well~~
~~with lifeline P+S~~

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

31st January 1934

[Signature]
 Chief Surveyor.

[Signature]
 Secretary.

0023 $\frac{3}{4}$

AS THIS vessel is less than 250'-0" in length
the Freeboard Report has not been compared with the
approved plans.

Lloyd's Register
Foundation
14 SEP 1930