

254/12

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# THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

555

STEAMER, TANKER, SAILER: "AMELIA" S.S. WITH WITHOUT TIMBER DECK CARGO

Nationality British Builders' Name and No. of Ship S. McKnight & Co. N° 44

Port of Registry Kirkwall Owners P. S. Cooper, W. COOPER & SON, (KIRKWALL) LTD.

Official Number 104069 ✓ Gross Tonnage 341 ✓

Date of Build 8/1894 Port and Date of Survey Leith, Oct '32

Particulars of Classification B.S. Name of Surveyor A. MacArthur

Names of Sister Ships —

Type of Superstructures Raised Quarter Deck, Bridge and 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 casings; hinged steel plates

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

1 PES fore end of R.Q.D. 17" dia., C.I., permanent chain attachment

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)

Bridge: 4' 0" high. Wood roundback, 3", (18" opening) wood door, both sides flap on top.

R.Q.D. aft: Steel house; 19 1/2"; hinged wood door; both sides.

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)

wood plugs & canvas covers File: 12"; bolts spaced 5 1/2" to 7". Stove funnel 4"; bolts 6" spp.

Mushroom 14"; 4 1/2"; (screw down)

Forewell: 26"; 5";

Bridge: 26"; 4 1/2" x 5"; Mushroom 10"; 4 1/2" x 5"; (screw down)

Swan-neck 7 1/2"; 4 1/2" x 5"; (to access)

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

Wells: 36"; gauge.

File: 7" x 10" (swan-neck)

wood plug closing app.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves) All in order and satisfactory

Discharges from enclosed spaces above fwd deck have lead pipes & N.R. valves

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

File: brass frames no deadlights

Bridge: " " " " } imaginary wood plugs provided.

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

File: 3' high 2 rails

Bridge: 3' " 3 " & one stake rail

R.Q.D.: 3' " 3 "

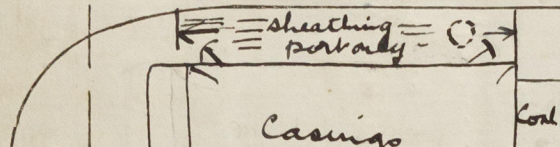
Lloyd's Register  
Foundation

002013-002023-0105(112)



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

002013-002023-0105(212)

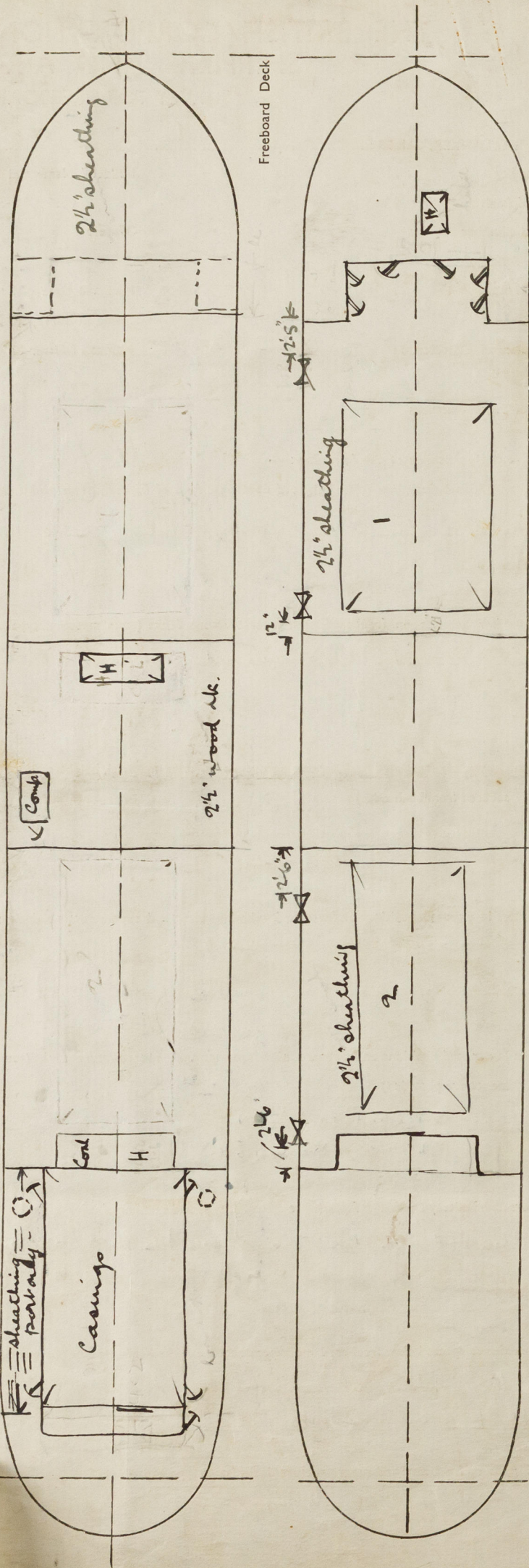


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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown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

Superstructure Deck



Statement of special features in the construction of the ship

### COMPUTATION OF FREEBOARD.

Length on summer load line 145' Moulded Breadth 22'9" Moulded Depth 12'0" Depth of Keel 7" Tons  
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth  
Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} =$   
Displacement and tons per inch immersion in salt water at summer load line  
Moulded depth 12'0"  
Stringer Plate  
Sheathing on exposed deck T  $\left(\frac{L-S}{L}\right)$   
Rise of floor (in sailers)  
Depth for Freeboard (D)  
Table Depth  
Depth Correction  
If restricted by superstructures

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck	49.25 F	.33	4'0"			
Bridge	26.25 A	.33	7'3 1/2"			
Forecastle	29.25	.33	7'0"			
Trunk Aft						
Forward						
Tonnage-Opening Aft						
Forward						
Totals						

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	13'			1	
1/2 L from A.P.				4	
1/2 L from A.P.				2	
Amidships				4	
1/2 L from F.P.				2	
1/2 L				4	
F.P.	38.5			1	
				18	
Effective Mean Sheer					
Standard		.05L + 5			
Difference					

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 =

Standard Height of Superstructure  
" " R.Q.D.  
Percentage covered S/L =  
" " E/L =  
" from Table line A, B, (corrected for absence of forecastle if required)  
Percentage from Table by interpolation for Bridge  
less than .2L if required =  
Deduction =  
Percentage from Table for Tankers (or Timber ships) =  
Deduction =

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

### DRAUGHTS AND SEASONAL CORRECTIONS

Sailer, Tanker, Steamer Timber  
Depth to Freeboard Deck in feet  
Summer Freeboard in feet  
Moulded Draught (d)  
Addition for Keel  
Extreme draught  
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.

Length 22/10/32

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (3 1/2" wood)  
TROPICAL FRESH WATER LINE above centre of disc 4 1/4"  
FRESH WATER LINE " " " 2 1/2"  
TROPICAL LINE " " " 1 3/4"  
WINTER LINE below " " " 1 3/4"  
WINTER NORTH ATLANTIC LINE " " " 3 3/4"

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. "								
Bridge Aft Bulkhead								
Forward "								
Forecastle Bulkhead								
Trunk, Aft								
Forward								
Exposed Machinery Casings on								
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  
Forward "  
Forecastle Bulkhead  
Exposed Machinery Casings on  
R.Q. deck  
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 20.67 4' 2' 2 @ 2'5" x 1'8" 8.04 0' 8.57 0'  
Forward Well 18.58 " 2 @ 2'5" x 1'8" 8.04 " 8.36 "  
State fore and aft position and height above After Well } 8 1/2" sill average  
deck to bottom of port, for each port Forward Well }  
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	Height above deck	Thickness of sides	Stiffeners	Brackets or Stays
1 upper 8"	12'-2" x 9'	30'	30"	6 x 3 Bx (2x16)	—
2 upper 8"	16'-5" x 11'-0 1/2"	32"	32"	6 x 3 x 4 BA	—
COAMINGS					
Number	1	6'-1"	6'-4"	30'	30"
Spacing	6'-1"	6'-4"	6'-4"	30'	30"
Scantling and Sketch	11" x 31"	11" x 31"	11" x 31"	11" x 31"	11" x 31"
Bearing Surface and thickness of carriers or sockets	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"
HATCH BEAMS					
Number	1	4'-6"	4'-6"	4'-6"	4'-6"
Spacing	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
Unsupported lengths	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
Scantling and Sketch	6 x 6 wood	6 x 6 wood	6 x 6 wood	6 x 6 wood	6 x 6 wood
Bearing Surface and thickness of carriers or sockets	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"
FORE AND AFTERS					
Number	1	4'-6"	4'-6"	4'-6"	4'-6"
Spacing	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
Unsupported lengths	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
Scantling and Sketch	6 x 6 wood	6 x 6 wood	6 x 6 wood	6 x 6 wood	6 x 6 wood
Bearing Surface and thickness of carriers or sockets	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"	3" x 1 1/2"
FORE AND AFTERS					
Material	Pine	Pine	Pine	Pine	Pine
Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
How Fitted	Shuntstake	Shuntstake	Shuntstake	Shuntstake	Shuntstake
Bearing Surface	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Spacing of Cleats	Aver. 2'-4"	Aver. 2'-4"	Aver. 2'-4"	Aver. 2'-4"	Aver. 2'-4"
Number of Tarpaulins	3	3	3	3	3

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Gangway, Cargo and Coaling Ports in sides of ship *none*

### 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 7<sup>th</sup> December 1932,

Chief Surveyor.

Aircraft  
Lloyd's Register  
Foundation  
Secretary.