

See amendments in red made at Malta 3/3/38

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for ~~Steamer~~ *Sailing Ship* Tanker
having *Poop, Bridge and Forecastle.*

Port of Survey *MALTA.*

Date of Survey *FEBRUARY 1938.*

Name of Surveyor *A. I. ...*

Particulars of Classification *Carrying Petroleum in bulk.*

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<i>"BRAMBLELEAF"</i>	<i>BRITISH, LONDON</i>	<i>140287</i>	<i>5917. R.B.</i>	<i>1917.</i>

Moulded Dimensions: Length *404.5* Breadth *54.25* Depth *35.16*
Moulded displacement at moulded draught = 85 per cent of moulded depth *12967* tons
Coefficient of Fineness for use with Tables *.692*

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, (corrected for absence of forecastle (if required).
Fore enclosed						Percentage from Table, Line B. (corrected for absence of forecastle (if required).
" overhang						Interpolation for bridge less than .2L (if required).
Trunk aft						Deduction =
" forward						
Tonnage opening aft						
" forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.									
$\frac{1}{4}L$ from A.P.									
$\frac{2}{4}L$ "									
Amidships									
$\frac{3}{4}L$ from F.P.									
$\frac{4}{4}L$ "									
F.P.									
Total									

Correction = $\frac{\text{Difference between sums of products}}{75 - \frac{S}{2L}} =$

Is limited on account of midship superstructure

If limited to maximum allowance of $1\frac{1}{2}$ ins per 100 ft

Deduction for Tropical Freeboard Addition for Winter and Winter North Atlantic Freeboard	Deduction for Fresh Water	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck =	Displacement in salt water at summer load waterline.	Correction for coefficient
Summer freeboard =	$\Delta =$	Depth Correction
Moulded draught (d) =	Tons per inch immersion at summer load waterline	Deduction for superstructures
	$T =$	Sheer correction
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{\Delta}{4}$ inches =	Deduction = $\frac{\Delta}{10 T}$ inches =	Round of Beam correction
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships
		Other corrections scantlings, etc
		Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ *Steel*, Deck: © 2020

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

Lloyd's Register
Foundation

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway	HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
	Forecastle Deck	Forward Hold	Forward Magazine	Engineers' Magazine	Magazine Aft	Steering Comp.	Gunlayer Store	Fore Peak	Capsan Engine Flat	Cofferdam's 3 No.
Dimensions of Hatchway	3'-11" x 2'-11"	7'-11" x 5'-4"	3'-0" x 2'-6"	4'-11" x 4'-4"	3'-0" x 2'-5"	2'-1" x 1'-11"	4'-11" x 4'-0"	2'-2" x 2'-2"	3'-2" x 3'-6"	2'-5" x 2'-5" 2 No. 2'-3" x 1'-8" 6 No.
COAMINGS	Height above Deck ... 1'-3 1/4"	2'-7 1/4"	3'-4"	2'-4"	2'-10"	1'-3 1/2"	1'-6 1/2"	1'-0"	1'-0"	1'-11"
	Thickness ... 3/8"	3/8"	7/16"	3/8"	3/8"	1/4"	3/8"	3/8"	7/16"	3/8"
	Stiffeners ...									
	Brackets, Stays ...									
HATCH BEAMS	Number ...									
	Spacing ...									
	Scantling and Sketch ...									
	Bearing Surface ...	Trunked	Trunked							
FORE AND AFTERS	Number ...	1								
	Spacing ...									
	Unsupported Lengths ...									
	Scantling and Sketch ...									
	Bearing Surface ...									
HATCH COVERS	Material ... Steel 3/8"	Pitch Pine	Steel 1/2"	Pitch Pine	Steel 1/2"	Steel 1/4"	Steel 3/8"	Pitch Pine 2 3/4"	Pitch Pine 2 3/4"	Manhole 2 3/4"
	Thickness ...	2 1/2"	Loose	Loose	Loose	Hinged	Boiled	Thwartship	Thwartship	Hinged
	How fitted ...	Manhole	3"	Rubber Joint	3"	Rubber Joint	1 3/8"	2"	Rubber Joint	Rubber Joint
	Bearing Surface ...	Rubber Joint								
Spacing of Cleats	8 Studs	2'-1"	8 Studs	2'-3"	8 Studs	1 Lever Clip	3/8" Bolts	Flat Bar	Flat Bar	5 Studs
Number of Tarpaulins	Spaced 16 1/2"	2	Spaced 1'-6 1/2"	2	Spaced 1'-7"	Both Sides	4"	Lock	Lock	Spaced 14"

*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? ☒

Particulars of fiddle, funnel and ventilator coamings:-

Stokehold gratings covered by strong steel hinged covers, 7 No. to forward and 7 No. to after stokehold
 Fiddle and funnel ventilators in efficient condition.
 Engine Room skylight of steel strongly constructed.

Particulars of Flush Bunker Scuttles:- None Fitted.

Cargo Bunker & Summer Tanks. 2'-11" x 2'-11" 38 off. Coaming 3'-1 1/2", thickness 7/16", steel cover, leather or tallowed hemp joint, 8 studs spaced 18".
Fresh Water Tanks. 1'-11" x 1'-3" 2 off. Coaming 6", thickness 3/8", steel cover hinged, rubber joint, 6 studs spaced 12 1/2"
Shaft Tunnel. 2'-6" x 1'-8 1/2" 2 off. Coaming 2'-7 1/2", thickness 3/8", steel cover, rubber joint, 6 studs spaced 14".

Particulars of Companionways:-

Above Gunlayer Store, one companionway fitted over steel hatch with double doors (1 1/4" teak wood) facing aft. Size of door 2'-0" x 3'-1", Height above wood deck 1'-10".

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:-

Forecastle Deck:- 12 No. 5" to 16" diam. 2'-0" to 4'-6" high x 25" } All vents constructed in accordance with rules and closed
Boat Deck:- 23 " 8" to 33" " 1'-6" to 11'-10" " x 37 1/2" } by:- ① Wood plug and canvas cover
Poop Deck:- 18 " 6" to 16" " 9" to 6'-9" " x 25" } or ② Patent French Type.
 or ③ Mushroom cover.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:-

Forecastle Deck:- 4" x 6" diam 15' x 16" high, to c'dams, peak tanks & living spaces. } All air pipes closed by canvas covers.
Freeboard Deck:- 6" " 48' x 50" " " cofferdams. } Goose-neck air pipe & cock is fitted to the
Poop Deck:- 4" to 6" " 13' to 16" " " c'dams & living spaces. } hatch cover of each oil fuel bunker
Boat Deck:- 6" " 16" " " Prov. Rm, Med. Store & W.C. } on the freeboard deck.

Particulars of Gangway Cargo and Coaling Ports:-

None fitted.

Particulars of Scuppers and Sanitary Discharge Pipes:-

All sanitary discharge pipes fitted with storm valves at the ship's side.

Waterway scuppers & peak discharge & discharge from the galley not fitted with storm valves.

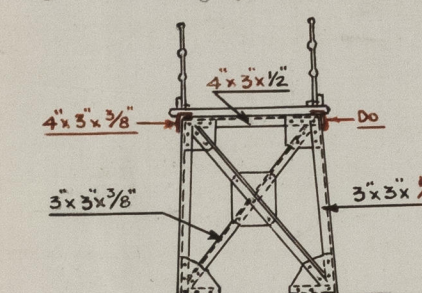
Particulars of Side Scuttles:-

Six scuttles, port & starboard, fitted between main and freeboard decks, leading into Store Room, Capsan Flat and Cable Working Spaces, also 4 scuttles, port & starboard, in Poop space, leading into Steering Gear Comp. and Workshops.
 The scuttles are of the service pattern fitted with hinged deadlights.

Particulars of Guard Rails:-

Forecastle, Bridge and Poop Decks:- 3'-6" high having 3 rods and stanchions 4'-8" apart except in way of boat crutches on Boat Deck, in lieu of which stanchions 2'-8" high and 8'-5" apart are fitted with slip & screw attached to 2" F.S.W.R.
Freeboard Deck:- Rails fitted between bulwarks 3'-9 1/2" high and 4'-3" apart fitted with 3 rods except where stanchions are of the removable type where chains are fitted instead of rods.

Particulars of Gangways, Lifelines, etc.:-



No lifelines fitted.

Gangway extending from Poop to Bridge and from Bridge to Forecastle.

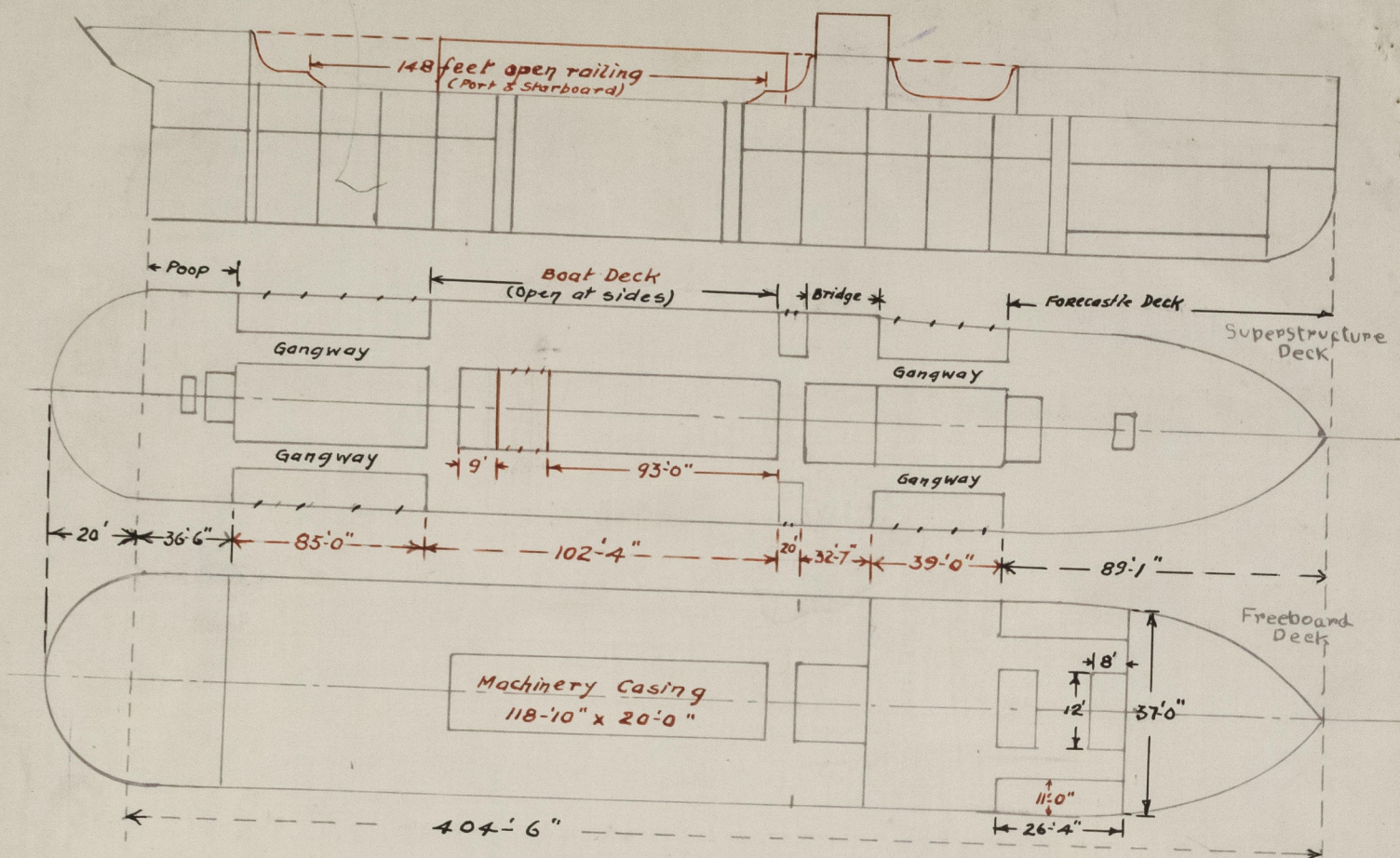
The gangway is 6'-0" wide, 3" pitch pine and supported as per sketch, spaced 7'-6" average.

Particulars of Freeing Arrangements						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Wall End.	36'-0"	3'-9"	143 feet of open railing between poop & bridge.			34.0 sq. ft.
Forward Wall End.	39'-0"	3'-9"	5'-0" x 1'-10" 3'-10" x 2'-0" 4'-0" x 2'-4" 3'-0" x 1'-6"	2 1 1 1	40 sq. feet.	36.5 sq. ft.
State position of each freeing port (F. and A. position and height above deck edge) State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of each:- Freeing ports with 2 or 3 rods without shutters. Additional area where sheer is less than standard { Edge of sheer strake 12" above deck. Scupper holes through gunwhale angle bar between bridge & poop bulkheads, 6 No. size 6"x4" each side.						

Particulars of Superstructures, Trunks, Casings, Deckhouses								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		3/8"	6" x 3 3/4" x 7/16" Bulb Angle	41"	3 1/2" x 3 1/2" x 3/8"	None	None	9'-6 1/16"
Raised Quarter Deck Bulkhead		5/16"	3 1/2" x 5" x 3/8"	36"	3" x 3" x 3/8" B.Rts. top & bottom	5'-0 1/2" x 1'-11 1/4"	16 1/2"	7'-11"
Bridge After Bulkhead		3/8"	Bulb Angle 6" x 3" x 3/8"	30"	- Do. -	4'-7 3/4" x 2'-4 3/4"	19"	8'-0"
Bridge Forward Bulkhead		3/8"	3 1/2" x 5" x 3/8"	33"	3 1/2" x 3 1/2" x 3/8"	4'-9" x 2'-5"	18"	8'-0"
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	3/8"		3" x 4" x 3/8"	33"	Brackets top and bottom			7'-10 1/4"
Exposed Machinery Casings on Superstructure Decks	5/16"		3" x 4" x 3/8"	- Do. -	9" x 3 1/2" x 1/2" in fitting casing & 1 web to E.R. casing			2'-0" above wood deck
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Poop Deck Strip	12'-11" x 7'-0"	1/4"	4" x 3" x 3/8"	31"		4'-11" x 2'-2"	16" above wood deck	7'-3"

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	No openings.
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	One hinged teak wood door to living quarters 5'-1 1/2" x 2'-0 1/4"
Bridge Forward Bulkhead	Hinged steel weather tight doors, 2 No. 4'-9" x 2'-6" with dogs manipulated from both sides.
Forecastle Bulkhead	Solid hinged wood doors 4'-10" x 2'-6" placed 21'-0" fore side of after end.
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	8 No. on each side, steel hinged w.t. doors fitted with rubber joint & dogs manipulated from both sides.
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Strip	✓

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the foreboard deck, 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:—



State any special features in the construction of the ship:—

Longitudinal framing with web frames at intervals.

Builder's name and yard number RUSSEL & Co. PORT GLASGOW.

Names of sister ships _____

Owners THE ADMIRALTY.

Fee £ _____ Received by me _____

*Amended in red at Malta.
See Form C 11(c) dated 19.2.38.*

*W. J. Jethrow
Surveyor*

MALTA DOCKYARD



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