

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

20 MAY 1933

Index. No. 18803
(For London Office only.)

DISCLOSED
MAY No. 209

Section 1

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Roof Bridge and Tonnage
GUILVINEC (Type of Superstructures.)
Ship's Name ex MAMBIKA Nationality and Port of Registry Belgian - ANTWERP. Official Number 165556 Gross Tonnage 3222 Date of Build 1920-9.
Moulded Dimensions: Length 330.66 Breadth 46.5 Depth 25'6"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 7128 tons
Coefficient of fineness for use with Tables 754
Port of Survey Antwerp
Date of Survey 12th/17th May 1933
Name of Surveyor A. J. Retac
Particulars of Classification 1100H. 4. 21
2nd. N 2 - 28

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 25'50"	(a) Where D is greater than Table depth (D-Table depth) R = (25'54" - 22'04") 2'543 = +8'90"	Moulded Breadth (B) <u>46.5</u> Standard Round of Beam = $\frac{B \times 12}{50} = 11.16$ Ship's Round of Beam = <u>11.50</u> Difference = <u>+0.34</u>
Stringer plate 04"	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Difference
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Restricted to
Depth for Freeboard (D) = <u>25'54"</u>		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} \times .4969 = -.04$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	31.20	31.70	2'6"	-	31.70	Standard Height of Superstructure <u>6.81</u>
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure <u>37.37</u>
" overhang						Percentage covered $\frac{S}{L} = 50.31\%$
Bridge enclosed... ..	102.00	102.00	2'6"	-	102.00	" " $\frac{S_1}{L} = 50.31\%$
" overhang aft						" " $\frac{E}{L} = 50.31\%$
" overhang forward						Percentage from Table, Line A.
F'cle enclosed	32.66	32.66	2'6"	-	32.66	(corrected for absence of fore-castle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of fore-castle (if required))
" forward						Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction = <u>37.37 x .3631 = -13.57</u>
" " forward						
Total	166.36	166.36			166.36	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	43.07	1		43.07	51"	51.00	1		51.00	Mean actual sheer aft = <u>Excess</u>
$\frac{1}{2}$ L from A.P.	19.17	4		76.68	22.5"	22.12	4		88.48	Mean actual sheer forward = <u>Excess</u>
$\frac{2}{3}$ L "	4.74	2		9.48	5.5"	5.53	2		11.06	Mean standard sheer forward
Amidships		4					4			Length of enclosed superstructure forward of amidships = <u>.058</u>
$\frac{2}{3}$ L from F.P.	9.47	2		18.94	11.5"	11.06	2		22.12	" " aft of " = <u>.051</u>
$\frac{1}{2}$ L "	38.33	4		153.32	45"	44.24	4		176.96	
F.P.	86.14	1		86.14	102"	102.00	1		102.00	
Total				387.63					451.62	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{63.99}{18} \left(.75 - .2515 \right) = -1.77$

If 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. Depth to Freeboard Deck = <u>25'54"</u> Summer freeboard = <u>3'96"</u> Moulded draught (d) = <u>21'58"</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>5'5"</u> Addition for Winter North Atlantic Freeboard (if required =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.68 + .754}{1.36} = \frac{1.434}{1.36}$ Depth Correction 8'90" Deduction for superstructures 13'57" Sheer correction 1'77" Round of Beam correction 04" Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = <u>47'48"</u>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Weed, Steel, Deck:— 3'11 1/2"

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 " "

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
		On 6 th Deck	On 8 th Deck	On 9 th Deck	On 10 th Deck	On 11 th Deck	On 12 th Deck	On 13 th Deck	On 14 th Deck	On 15 th Deck	On 16 th Deck
Description of Hatchway		No. 1	No. 2, 4, 5	No. 3	No. 3	To Side	To Coal	To Side	To Side	To Side	To Side
Dimensions of Hatchway		24' 9" x 18' 0"	24' 0" x 18' 0"	9' 0" x 18' 0"	12' 0" x 18' 0"	26' x 1' 10"	46' x 18' 0"	9' 0" x 2' 10"	4' 0" x 3' 0"	2' 4" x 2' 4"	3' 3" x 3' 3"
COAMINGS	Height above Deck	30"		29 1/2" x .50"		15"	29 1/2" x .50"	30"	29 1/2" x .50"	29 1/2" x .50"	29 1/2" x .50"
	Thickness	1/4"		1/4"		1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Sides										
	Ends										
Stiffeners		2 3/4" x 40" all round									
Brackets, Stays		2 stays 2 1/2" dia. each side.									
HATCH BEAMS	Number	5		1	2						
	Spacing	4' 1 1/2"		4' 6"							
	Scantling and Sketch	14" x 34" 10" x 34" 4" x 8" x 44"		14" x 36" 10" x 36" 4" x 8" x 44"	14" x 36" 9" x 36" 4" x 8" x 44"						
	Bearing Surface	3"									
FORE AND AFTERS	Number										
	Spacing										
	Unsupported Lengths										
	Scantling* and Sketch										
Bearing Surface											
HATCH COVERS	Material					Wood					
	Thickness					2 3/4"					
	How fitted										
	Bearing Surface	3" and 4"									
Spacing of Cleats						24" maximum					
Number of Tarpaulins		2	2	2	1	2	2	2	1	1	1
*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/>											
Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/>											
Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/>											
Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/>											

Particulars of fiddley, funnel and ventilator coamings:—

2 ventilators	30' dia.	to Dr. R.	} Fiddley top 7' 0" above Mudg. Deck.
2 "	24" "	to L. R.	

Eugene Room steel skylights with flap covers and bull's eyes. The paddy openings are provided with steel covers permanently attached.

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways :—

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

On Fcl Deck. 2 off. 20" dia x 26" coany x 44".
and 1 goose-neck. 5" dia x 6" high.

On Forewell. 1 off 20" dia x 26" coany. x 44".
3 " 17" " x 36" " x 40".

On Afterwell 3 " 17" " x 36" " x 40"

On Bridge Deck 2 off. 20" dia x 26" coany x 44".

On Pop Deck. 1 off 17" dia x 30" " x 40".
1 " 10" " x 20" " x 32".
1 " 8" " x 27" " x 25".

All ventilators are
provided with ~~wood~~ flaps
& canvas covers. /

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

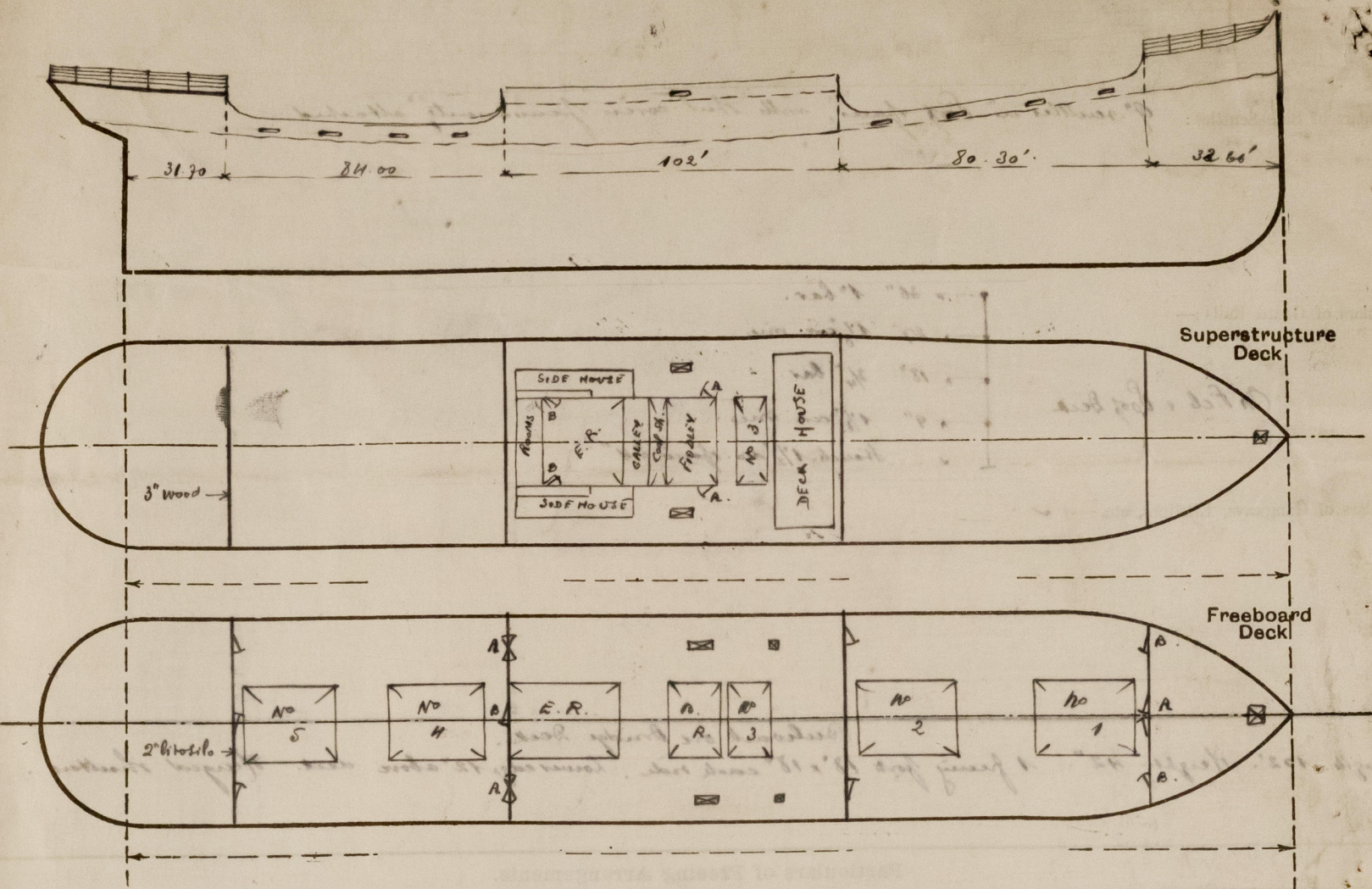
On Fore Deck.	Steel pipe	3" dia	x 14" high	to Fore Peak
	"	2 1/2"	x 18"	to No 1 Tank.
In Fore & after well.	"	2 1/2"	x 16"	
On Hog Deck	"	2 1/2"	x 18"	
On Roof Deck.	"	3"	x 14"	

~~No means of closing the openings.~~
Wood Plugs provided

Particulars of Gangway Cargo and Coaling Ports:—

Stammore

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



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

External Displacement at 21' 0" draught. 7000 Tons. — Tons per inch. 30.650.
 " " 22' 0" " 7.370 " " " 30.850.

The vessel has been examined. float and no part of the special survey has been carried out.

The vessel is at present laid up and there are only old tarpaulins on the hatches.

Shetlar

Builder's name and yard number. *Lloyd Royal Belg. (Great Britain) Ltd. Glasgow.*

Names of sister ships.

Owners. *Co. Maritime Belg. (Lloyd Royal) S.A.*

Fee £ *22.00* — *18/5/33*. Received by me



© 2021

Lloyd's Register
Foundation