

pt. No. 31153.  
 No. 31154.  
 GOVERNMENT  
 SURVEYS FOR FREEBOARD.—STEAM SHIPS.  
 COPY

Index No. 31422  
 (For London Office only.)

11 SEP 1924

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Rotterdam  
 Date of Survey Building  
 Name of Surveyor J. O. Heuvela

Ship's Name Twin Screw Steamer MANUELA  
 Number in Register Book  
 Port of Registry and Nationality Dutch Curacao.  
 Official Number 95  
 Gross Tonnage ?  
 Date of Build 1924  
 Particulars of Classification +100 A1 Contemplated with freeboard, Carrying Petroleum in bulk.

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	305.0	50.29	15.146	1798.69
Length on LOADLINE.	305.0	Frame Depth 10 Rule 5 -83 no sheering +33	Ceiling +20 Sheer <del>not fitted</del>	Peak Tanks include 2nd floor forward draft +20 tons.
CORRECTED DIMENSIONS.	305.0	49.79	14.406	1824.18.

Moulded Depth as measured..... 15'-0"  
 Addition for Keel below base line for draught record. 1.22 inches. Keelplate + A Sheer

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	305.0
Length in Table .....	180.0
Difference .....	125.0
Correction for 10ft., Table A. ....	1.0
× Difference divided by 10 .....	12.5
If $\frac{1}{10}$ ths length covered divide by 2	6.25
	+6 1/4"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered .....	-
Thickness of usual wood deck, less stringer .....	3 1/2"
	-3 1/2"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	50.0
Round of Beam .....	12 1/2"
Normal round.....	12 1/2"
Difference .....	÷ 2 =
Proportion of Deck uncovered (Para. 19) .....	✓

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

Co-efficient of fineness..... .83  
 Any modification necessary [Para. 4 (a) to (e)]\*  
 Co-efficient as corrected ..... .82 Highest in tables.

Sheer { Stem..... 24 }  
 at { Sternpost .. 14 } 38 ÷ 2 = 19 ... Mean

Sheer at  $\frac{1}{3}$  of the length from { Stem 3 1/2 }  
 { Sternpost 1/4 } 3.75 ÷ 2 = 1.87 ... Mean

Gradual mean Sheer ..... 6.62

Standard mean Sheer [Table, Para. 18] ..... 40.5 Correction  
 Difference..... 33.88 ÷ 4 = 8.47  
 § If limited as Para. 18 (f) ..... +8 1/2"  
from frame 20 to 120 straight

Rise in Sheer { At front of bridge house..... ✓ }  
 from amidships { Para. 18 (e) }  
 { At after end of forecastle ..... ✓ }

Fall in Sheer { Para. 18 (d) } ÷ 2 =  
 Length uncovered ..... Correction

Freeboard, Table A .....	2-7"
Correction for Sheer .....	+ 8 1/2"
	3-3 1/2"
Correction for Length .....	+ 6 1/4"
	3-9 3/4"
Allowance for Deck Erections .....	- 1-4 1/2"
	2-5 1/4"
Correction for Round of Beam.....	✓
Correction for fall in Sheer (if any).....	✓
Correction for Iron Deck (if required) .....	- 3 1/2"
	2-1 3/4"
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	✓
Other Corrections (if any) <u>for scantlings and class to correspond to approved draught of 11'-0" mld.</u>	+ 2-0"
	4-1 3/4"
Winter Freeboard .....	4-1 3/4"
Summer Freeboard .....	4-0 1/4"
Indian Summer Freeboard .....	✓
N. A. Winter Freeboard .....	✓
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side.	1/4"

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	0-7 1/2"
Correction for Length, if required (Para. 12, 13, and 14) .....	✓
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	3-3 1/2"
Difference .....	2-8
Percentage as below.....	51.9
	16.60
Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }	-1-4 1/2"
Allowance for Deck Erections .....	

Length.	Length allowed.	Height.
Forecastle..... <u>28'-6 1/2"</u>	= 28.52	7'-6"
Bridge House <u>Trunk + 18'-10" beam with 34'-0"</u>	<u>18'-21" × 24'-50" × .8 = 102.70</u>	6'-3 1/2"
† Raised Qr. Dk..... <u>46'-7 1/4"</u>	88.27	6'-3 1/2"
Poop.....		
Total .....	<u>219.49</u>	
Length of Ship .....	<u>305</u>	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>51.9%</u>	

Winter Freeboard from deck line .....	4-3 1/2"
Summer " " " " .....	4-2"
Indian Summer " " " " .....	✓
N. A. Winter " " " " .....	✓

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—

Fresh Water Line above centre of Disc .....	3"
Indian Summer Line " " " " .....	✓
Winter Line below " " " " .....	1 1/2"
Winter North Atlantic Line " " " " .....	✓

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† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.  
 † In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.  
 § In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

† State dimensions of freeing port area on back of this form.  
 † The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft, should be reported.

004019-004028-0262

Lloyd's Register  
 MARKING FORM  
 RECEIVED 1 OCT 1924

Do all the Frames extend to the top height in the Poop?  Raised Quarter Deck? *Yes* Bridge House?  Forecastle? *Yes*

To what height do the Reverse Frames extend?

Has the ~~Poop~~ Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*

Give particulars of the means for closing the openings in Bulkhead

Is the Poop or Raised Quarter Deck connected with the Bridge House?  Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating?  and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners?  Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes and enclosed by a strong casing and deckhouse*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*

Give thickness of plating; scantlings and spacing of Stiffeners *50 Stiffeners 3x3x.30 2'-6" apart*

What is the height of the exposed Casings? *7'-6"* Are suitable means provided for closing all openings in them in bad weather? *Not done.*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *all hatches steel above oil compartments and above fuel oil and closed with steel screw covers*

Position and Size.	Ship.	Rule.								
COAMING										
Item.										
Height above top of DECK										
Thickness										
Sides										
Ends										
SHIFTING BEAMS OR WEB PLATES										
Number										
Section and Scantlings										
Material										
* FORE AND AFTERS										
Number										
Section and Scantlings										
Material										
HATCHES Thickness										
Remarks										

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake?  Strake between Main and Bridge Sheerstrakes?

Delete the words } The Crew are, *are not*, berthed in the bridge house. *forecastle*

that do not apply } The arrangements to enable them to get backwards and forwards from their quarters are, *are not* satisfactory. *over bulk with rail*

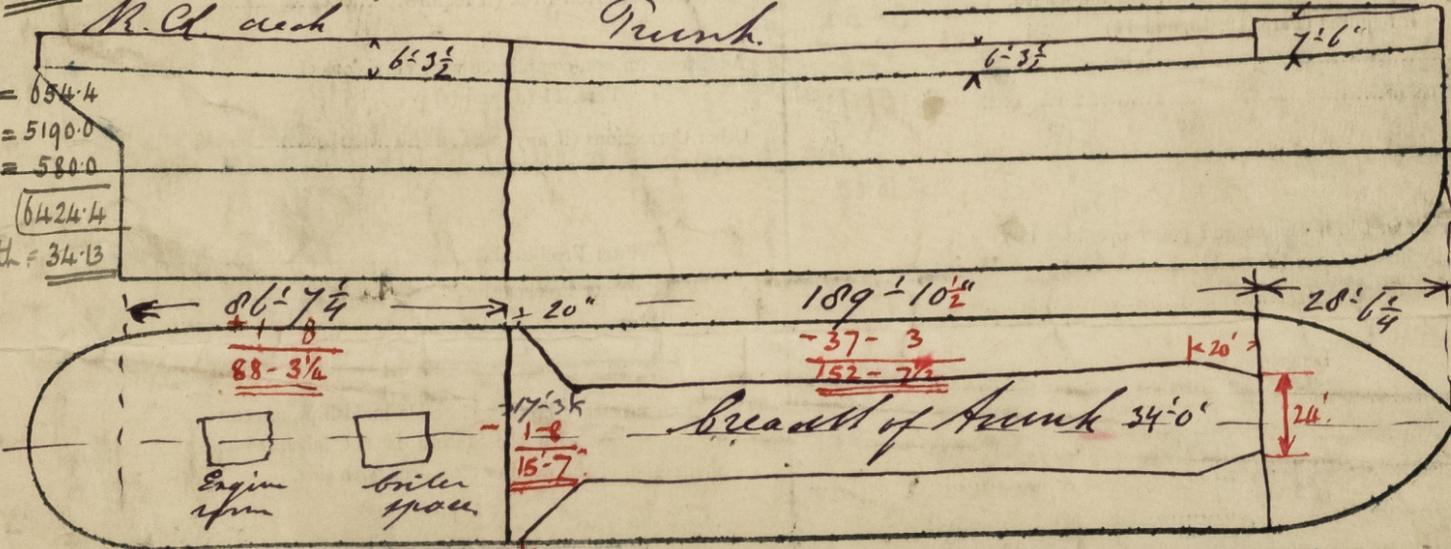
Length of Bulwarks in well *open rail*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = Sq. ft.

Total deficiency or excess = Sq. ft.

Sheer  
F. 24.0 1 24.0  
1/8L. 3.5 4 14.0  
1/4L. - 2 -  
3/8L. - 4 -  
1/2L. - 2 -  
3/8L. - 4 -  
1/4L. - 2 -  
1/8L. 25 4 1.0  
A. 14.00 1 14.0  
8 53.0  
mean and shear 6.62



Show hereon line of Floors of Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *The vessel has been built in accordance with the approved plans, which are retained in your office*

Builder's name and yard number *Rotterdam Drydock Corp. yard No: 95*

Names of sister vessels *S. Martina, Julieta and Marsella.*

Owners *Curacaosche Scheepvaart Maatschappij*

Address *Willemstad*

Fee of *96.00* will be received by me *Application from sent herewith*

