

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

22 SEP 1927

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

Port of Survey Rottterdam
Date of Survey Building
Name of Surveyor L. Nuyk.

Ship's Name. M.S. "KOTA-INTEN"
Port of Registry and Nationality. Rottterdam Dutch.
Official Number. 306
Gross Tonnage. 7190.87
Date of Build. 1916/17
Particulars of Classification. +100 A1 contemplated..

Number in Register Book

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>449.6</u>	<u>60.83</u>	<u>29.67</u>	<u>4707.41</u> <u>1817.37 between tonnage deck and upper deck.</u>
Length on LOADLINE.	<u>448.4"</u>	Frame Depth <u>92</u> Rule <u>" 4"</u> <u>as per plan 2 1/2</u> <u>= - .42</u> <u>For Vert. Spacing</u> <u>+ .20</u>	Ceiling <u>filler</u> Sheer <u>+ .86</u> <u>To Tank Top</u> <u>at ends</u> <u>extended</u> <u>31.00</u>	Peak } Included. Tanks } For raised O.B. amidships <u>+ 48.3 tons</u> For 8 Tween Decks <u>Frames = 4.5 tons</u> For 115 Frames Forward + 3 tons
CORRECTED DIMENSIONS.	<u>448.33</u>	<u>60.61</u>	<u>31.86</u>	<u>6568.78</u>

Co-efficient of fineness..... .46
Any modification necessary }
[Para. 4 (a) to (e)]* } C.D.B.
Co-efficient as corrected44

Sheer { Stem..... 10' 11 1/4"
at { Sternpost 2' 9" } $164.75 \div 2 = 82.37$...Mean 36/30.94
Sheer at 1/3 of the length from { Stem 6' 3 1/2"
Sternpost 1' 6 1/2" } $94.0 \div 2 = 47.0$...Mean 83.91
Gradual mean Sheer 83.91
Standard mean Sheer [Table, Para. 18] 54.83 Correction
Difference..... 29.08 $\div 4 =$ 7.27
§ If limited as Para. 18 (f) - 4 1/4"

Rise in Sheer { At front of bridge house..... 1' 1"
from amidships }
[Para. 18 (e)] { At after end of forecastle 5' 6 3/4"

Fall in Sheer }
Para. 18 (d) } $\div 2 =$ ✓
Length uncovered Correction ..

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... 5' 9"
Correction for Length, if required (Para. 12, 13, and 14) + 3 3/4"
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }
Difference 8' 11 1/4"
Percentage as below..... 2' 10 1/2"
36.88%
82.32

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) }
Allowance for Deck Erections - 1' 0 3/4"

	Length.	Length allowed.	Height.
Forecastle.....	<u>65.75</u>	<u>65.75</u>	<u>7.5</u>
Bridge House.....	<u>130.00</u> <u>incl. 1.5' overhang from</u>	<u>127.50</u>	<u>7.75</u>
† Raised Q. Dk.....	<u>✓</u>	<u>✓</u>	<u>✓</u>
Poop.....	<u>58.108</u>	<u>58.06</u>	<u>7.25</u>
Total	<u>251.33</u>	<u>251.33</u>	<u>561</u>
Length of Ship	<u>448.33</u>		

Corresponding percentage }
(Para. 11, 12, 13, and 14) } 36.88%

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

Fresh Water Line above centre of Disc ...
Indian Summer Line " " " ...
Winter Line below " " " ...
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.

Moulded Depth as measured..... 33' 6"
Addition for Keel below base line for draught record... 1.60...inches. Keel plank & A shake.

CORRECTION FOR LENGTH

Length of Ship on Loadline..... 448' 4" (448.33)
Length in Table 402.00
Difference 46.33
Correction for 10ft., Table A. 1.4 Table C. .8
× Difference divided by 10 4.876 (required.) 3.41
If 1/10ths length covered divide by 2 + 8" + 3 3/4"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered561
Thickness of usual wood deck, less stringer 3 1/2"
2 1/4" Sheathing fitted in wells. .561 x 3 1/2 = 2' 0 3/4" - 1/4"
3 1/2" - 3" = 1/2" x .561 = 1/4" Mean effective = 3"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 60.0
Round of Beam 15"
Normal round..... 15"
Difference $\div 2 =$ ✓
Proportion of Deck uncovered (Para. 19) ✓

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

Freeboard, Table A 8' 10 1/2"
Correction for Sheer - 4 1/4"
Correction for Length + 8"
Allowance for Deck Erections - 1' 0 3/4"
Correction for Round of Beam..... ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Steel Deck (if required) - 1/4"
2 1/4" Sheathing on as above
4' 10 1/4"
Additions for non-compliance with provisions of }
Para. 11 (d) and (e) } ✓
Other Corrections (if any) No sheathing in Bridge - 3"
4' 7 1/4"

Winter Freeboard 7' 4 1/4"
Summer Freeboard 4' 1 1/4"
Indian Summer Freeboard 6' 4 1/4"
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 3/4"

Winter Freeboard from deck line 4' 9"
Summer " " " 4' 3"
Indian Summer " " " 6' 9"
N.A. Winter " " " ✓

Winter Freeboard from deck line 4' 3"
Summer " " " 6 1/2"
Indian Summer " " " 6"
N.A. Winter " " " ✓

† 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.

MARKING FORM

RECEIVED 8 OCT 1927

3458-023465-0091

Do all the Frames extend to the top height in the Poop? *Yes.* Raised Quarter Deck? *Yes.* Bridge House? *Yes.* Forecastle? *Yes.*
 To what height do the Reverse Frames extend? *All bulkhead frames.*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes.*
 Give particulars of the means for closing the openings in Bulkhead *2 1/2" shifting boards in channels full height of opening.*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No.* Has the Bridge House an efficient Bulkhead at the fore end? *Yes.*
 Give particulars of the means for closing the openings in Bulkhead *steel hinged doors.*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *240 x 90 x 12.5 BA spaced ± 30" apart.*
 Are bracket plates fitted at each end of the Stiffeners? *6 x 6 x .50 lugs.* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes.*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes.*
 How are the openings closed? *2 1/2" shifting boards in channels full height of opening.*
 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? *steel Bulk'd.*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by bridge and enclosed by strong steel 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 *Coaming .30 plating .26 Stiffeners 5 x 2 1/2 x 40 spaced 30"*
 What is the height of the exposed Casings? *16'6"* Are suitable means provided for closing all openings in them in bad weather? *Yes.*
 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:— *See below.*

Position and Size.		No. 1 - 22'6" x 16'0"		No. 2 - 30'0" x 16'0"		No. 3 - 35'0" x 16'0"		No. 4 - 22'6" x 16'0"			
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	30"	30"	30"	30"	30"	30"	30"	30"		
	Sides.....	.44	.44	.44	.44	.44	.44	.44	.44		
	Ends.....	.44	.44	.44	.44	.44	.44	.44	.44		
SHIFTING BEAMS OR WEB PLATES.	Number	4	4	5	5	6	6	4	4		
	Section and Scantlings	14 x .34 plat		14 x .34 plat		14 x .34 plat		14 x .34 plat			
	Material	3 1/2 x 3 x .42 angles		3 1/2 x 3 x .42 angles		3 1/2 x 3 x .42 angles		3 1/2 x 3 x .42 angles			
* FORE AND AFTERS.	Number										
	Section and Scantlings										
	Material										
HATCHES Thickness		2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2		
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? *16"* Strake between Main and Bridge Sheerstrakes? *16"*

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, ~~satisfactory~~.

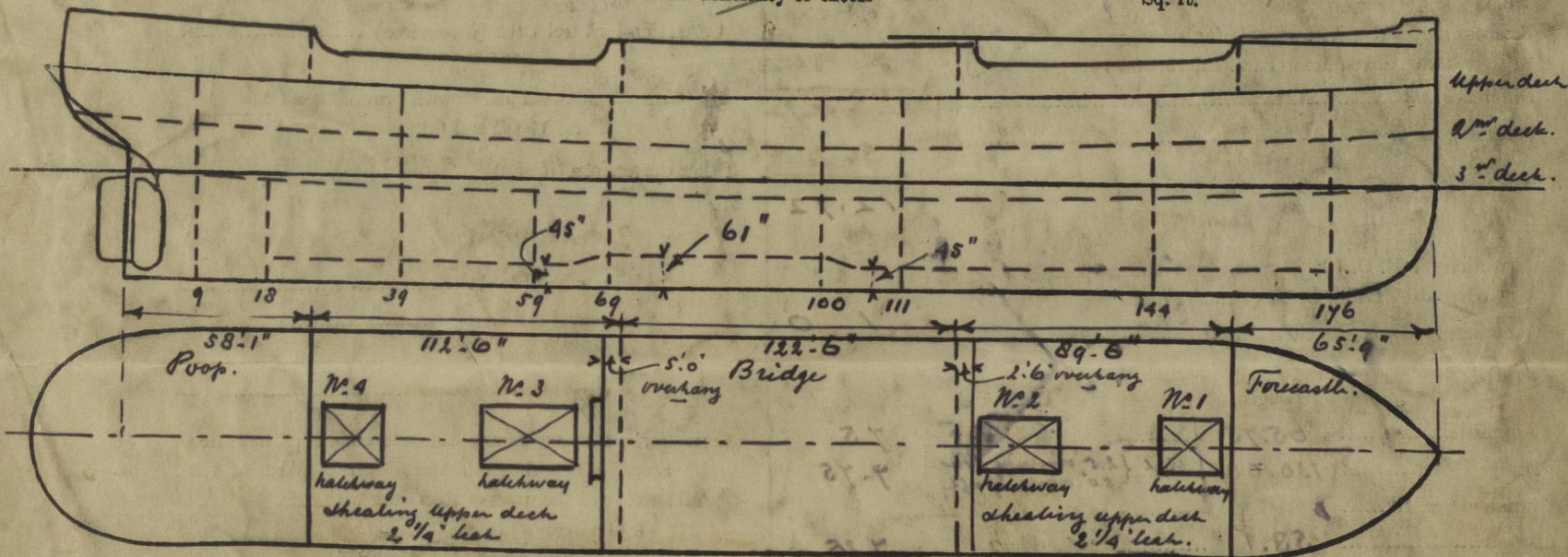
Length of Bulwarks in well *forewell 87'0" afterwell 107'6"*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *21.5* Sq. ft.

Ft. Tenths. Ft. Tenths. No.

forewell 3.0 x 1.5 x 4 } Freeing Ports = 18.0 Sq. ft.
afterwell 3.0 x 1.5 x 5 } (each side of vessel) = 22.5 Sq. ft.

Total deficiency or excess = Sq. ft.



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

Application form attached to this Report.

State any special features in the construction of the Vessel *The vessel has been built in accordance with the approved plans.*

Builder's name and yard number *Maats' van Scheps & Werkuigbouw Feyenoord. Yard number 306.*

Names of sister vessels *M.S. "Kota Radja". Maats' de Scheld. Yard number 182.*

Owners *Rotterdamse Lloyd.*

Address *Rotterdam.*

A provisional permit has been assigned to

the vessel per your letter 22-1-26.

Fee *f 144.00* will be Received by me *L. Vuyk*