

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS ~~WITH FLUSH DECKED, OR WITH TOP GALLANT 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 Frederikstad  
Date of Survey 3/10/32  
Name of Surveyor

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
<b>S/S OTHANDER</b> Number in Register Book	<u>Frederikstad</u> <u>Norwegian</u>		<u>1873</u>	<u>1917/9</u>	<u>+ 100 A.1.</u>

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>249.6</u>	<u>43.6</u>	<u>18.2</u>	<u>1679</u>
Length on LOADLINE.	<u>251</u>	Frame Depth <u>8</u> Rule " <u>5</u> <u>2</u> <u>50</u> <u>33</u>	Ceiling <u>+ 20</u> Sheer <u>+ 44</u> <u>3" Drop in Tank</u> <u>+ 12</u>	Peak } <u>Inc.</u> Tanks }
CORRECTED DIMENSIONS.	<u>251</u>	<u>43.43</u>	<u>18.96</u>	<u>1679</u>

Co-efficient of fineness..... .812  
Any modification necessary }  
[Para. 4 (a) to (e)]\* }  
Co-efficient as corrected ..... .792

Sheer { Stem..... 74 1/2 } 113 ÷ 2 = 56.5...Mean  
at { Sternpost 38 1/2 }  
Sheer at 1/8 of the length from { Stem 41 } 56 ÷ 2 = 28.0...Mean  
Sternpost 15 } ÷ .55 = 50.91  
Gradual mean Sheer ..... 50.91  
Standard mean Sheer [Table, Para. 18] ..... 35.10 Correction  
Difference..... 15.81 ÷ 4 = 3.95  
§ If limited as Para. 18 (f) ..... - 3.95

Rise in Sheer { At front of bridge house..... ✓  
from amidships }  
[Para. 18 (e)] { At after end of forecastle ..... ✓  
Fall in Sheer } 13 1/4 ÷ 2 =  
Para. 18 (d) }  
Length uncovered ..... Correction ✓  
Covered by Bridge

ALLOWANCE FOR DECK ERECTIONS:—  
Freeboard, Table C..... 17.125  
Correction for Length, if required (Para. 12, 13, and 14) ..... + .39  
17.515  
Freeboard by Table A, corrected for sheer, and for length, }  
if required (Para. 14, 15, 16, and 17) } 45.63  
Difference ..... 28.115  
Percentage as below..... 32.218%  
9.06

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) ..... ✓  
Allowance for Deck Erections ..... - 9.06

	Length.	Length allowed.	Height.
Forecastle.....	<u>26.58</u> <u>1.50</u>	<u>28.08</u>	<u>7'-0"</u>
Bridge House.....	<u>62.10</u> <u>5.50</u>	<u>62.72</u>	<u>7'-0"</u>
+ Raised Qr. Dk.....	<u>23.50</u> <u>2.25</u>	<u>24.62</u>	<u>7'-0"</u>
Poop.....	<u>2.25</u>		
Total .....	<u>116.93</u> <u>251</u>	<u>115.42</u> <u>251</u>	<u>= .4599</u>
Length of Ship .....	<u>251</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>32.218%</u>		

Moulded Depth as measured..... 20' - 2 3/4" *to lowest point of keel*  
13/4  
Addition for Keel below base line for draught record..... inches. 20' - 4 1/2" *moulded depth at middle of length*

CORRECTION FOR LENGTH.  
Length of Ship on Loadline..... 251.0  
Length in Table ..... 244.5  
Difference ..... 6.5  
Correction for 10ft., Table A. .... 1.2 Table C. .6  
× Difference divided by 10 ..... + .78 (if required.) + .39  
If 1/10ths length covered divide by 2

CORRECTION FOR IRON DECK.  
Proportion covered, if less than 1/10ths length covered ..... .4599  
Thickness of usual wood deck, less stringer ..... 3 1/2 = - 1.61"

CORRECTION FOR ROUND OF BEAM.  
Breadth at Gunwale amidships..... 43.50  
Round of Beam ..... 12.00"  
Normal round..... 10.875  
Difference ..... 1.125 ÷ 2 = .56  
Proportion of Deck uncovered (Para. 19) ..... 5.341 = - .30"

Freeboard, Table A ..... 48.80  
Correction for Sheer ..... - 3.95  
44.85  
Correction for Length ..... + .78  
45.63  
Allowance for Deck Erections ..... - 9.06  
36.57  
Correction for Round of Beam..... - .30  
36.27  
Correction for fall in Sheer (if any)..... ✓  
Correction for Steel Deck (if required) ..... - 1.61  
34.66  
Additions for non-compliance with provisions of }  
Para. 11 (d) and (e) } ✓  
Other Corrections (if any) ..... ✓

Winter Freeboard ..... 2' - 10 3/4"  
Summer Freeboard (2 1/2 : 3 1/2) = 3 ..... 2' - 7 3/4"  
Indian Summer Freeboard ..... 2' - 4 3/4"  
N. A. Winter Freeboard ..... 3' - 0 3/4"

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. ✓  
Winter Freeboard from deck line .....  
Summer " " " " .....  
Indian Summer " " " " .....  
N. A. Winter " " " " .....

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

Tropical Fresh Water Line above Centre of Disc	<u>7 1/2 = 190</u>	Tropical Fresh Water Freeboard	<u>2' - 0" = 610</u>
Fresh Water Line	<u>4 1/2 = 114</u>	Fresh Water	<u>2' - 3 1/4" = 686</u>
Tropical Line	<u>3" = 76</u>	Tropical	<u>2' - 4 1/2" = 724</u>
Winter Line below	<u>3" = 76</u>	Winter	<u>2' - 10 1/2" = 876</u>
Winter North Atlantic Line	<u>5" = 127</u>	Winter North Atlantic	<u>3' - 0 1/2" = 927</u>