

W465-0130 (1/2)



# SURVEYS FOR FREEBOARD. STEAMSHIPS.

**"WAIKOUAITI"**

L.L. No. ex Date of Build 1914  
 Ship's Name Imgard  
 Port of Registry and Nationality London  
 Official Number 143157  
 Particulars of Classification and Passenger Certificates Surmanichu Lloyd + 100 A from September 1918

Port of Survey Antioch Shields  
 Date of Survey May 1919  
 Surveyor's Signature Wm. A. Ainslie  
 Gross Tonnage 3680

The Surveyor should carefully delete all matter that does not apply to the particular case reported upon.

Erections.	Poop and Quarter Deck	Combined.	Bridge House.	Forecastle.
Do all the frames extend to the top height?			Yes	Yes
Thickness of the side-plating			9/16"	7/16"
Are efficient bulkheads fitted at the ends?			Yes	Yes
Thickness of coaming			3"	3/16"
" " plating			3"	3/16"
Section, spacing, and scantlings of stiffening			L 9"x3 1/2"x3/4"-24"	L 4"x2 1/2"x3/4"-24"
Are knees fitted at each end of stiffeners?			Yes 2'x2'x3/4"	None
Number and size of openings			Two 3'x5'3"	2'x5'
Means for closing			Board or Channels	Hinged teak doors
Height of channels, and whether they are riveted			Full Height. Riveted	
Thickness of boards in channels			4"	
Details of any special arrangements in connection with the openings			Class A closed.	

	LENGTH.			HEIGHT.	REMARKS, SKETCHES OR COMPUTATIONS.
	Actual.	Proportion.	Allowed.		
Forecastle.—Closed	46.2	7	46.2	8.0	
" —Open	6	7 1/2	46.38 say 45		
Bridgehouse.—Open	2.0	1/2	1.0	8.0	
" —Closed	233.2	7	233.2		
and —Open					
Read quarter deck					
Poop.—Closed					
" —Open					
Total length	282.0	779	280.85		
Length of ship	362		362		

Corresponding percentage (paragraphs 11, 12, 13) = 57.5%



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Tropical Line " " 4 1/2  
 Winter Line below " 4 1/2  
 Winter North Atlantic Line " 6 1/2

Tropical " " 3 - 1/2  
 Winter " " 3 - 10 1/2  
 Winter North Atlantic " " 4 - 0 1/2



W445-0130 (212)

## MOULDED DEPTH

as measured in the hold of ship or	Pl.	ins.	Correction for unsheathed iron deck, or thin deck, when required (Para. 6 (a)).
Depth of hold	23	4 1/2	
" floors, &c.	3	1/4	
	24	2 3/4	
Less round of beam	1	0 1/2	
Moulded depth	26	2	
Difference			

MOULDED DEPTH used = 26' 2"

## LENGTH CORRECTION.

Length of ship on load line	Table A.	Table C.
" in Table	362	314
Difference	48	75/14
Correction for one foot	6 2/3	
If 1/2 covered divide by 2	3 1/3	add
(Paragraphs 11 and 12).	36	

## CORRECTION FOR UNSHEATHED IRON OR STEEL DECK.

CORRECTION FOR UNDESIRABLE	
	Para. 6 (b).
Rule thickness of wood deck, less stringer fitted	$2' - 625''$ $= 3.375'$
Proportion covered by erections = 77.54	Allow 100 per cent.
Correction	$3.375' - 0''$

## CORRECTION FOR DECK GREATER OR LESS THAN RULE THICKNESS, Para. 6 (b).

Thickness of wood deck above stringer	" stringer fitted	" amidships	total
Rule wood deck			
Difference			
Proportion covered by erections =	Allow	per cent.	
Correction			

## SUMMARY.

Freeboard by TABLE A.	+	-
Correction for sheer	36	7.90
" length	3.12	16.19
Allowance " deck erections		
Correction " round of beam		
" fall in sheer		
" unsheathed deck	3.375	3.375
" thickness of wood deck, &c.		
Additions for non-compliance with paragraph 11 (d) & (e)		
Other corrections	36	5.2
Winter freeboard	3.12	21.415
Statutory deck line correction		
Deduction in Summer.		
Table A. 3-5	167	779
Table C. 5-17	130	35
	4.30	
Winter.		
Summer.		
Indian Summer.		
North Atlantic Winter.		

10.83  
20.83  
31.66

70.83

24.495  
46.335  
36.2652  
48.353-8  
1.40  
4.80

## ENGINE AND BOILER OPENINGS.

How are the casings protected?	by closed bridge
Height of casings above bridge deck	8 feet
How are the openings in the sides closed?	hinged doors
on the top	hinged steel cover on top of gratings
Height of sills of openings in casing sides	18"
Any special arrangements in connection with the openings?	
Thickness of casings to casings	7/16" 375
plating	5/16" 475
General conditions of casings, &c.	good
Size of casing stiffeners	L 3 3/4" x 8" x 3/8"
Spacing	24"

(Para. 23).  
Vertical distance of the sill of the lowest ordinary SIDE-SCUTTLE from the top of the freeboard deck amidships at side  
If the freeboard is likely to be affected by the operation of Clause 60 (d) of the Instructions as to the Survey of Passenger Steamers, state particulars

Length on load line	362
Gross length of erections	282
Length of well = difference	80
Freeing port area required on each side of vessel under paragraph 11 (c)	16

## FREEING PORTS fitted on each side in vessels of all types.

Length.	Breadth.	Number.	Area.
2.95	1.45	4	17.11

Total area = 17.11

Deduct excess of freeing port area

Where are the crew berthed?	In T. G. Locks
Do the arrangements for enabling the crew to get to and from their quarters comply with the requirements of paragraph 11 (d), (pages 26 and 27) of the Freeboard Tables 1909?	Yes
Can the boiler room be entered from the bridge deck?	Yes
State any special arrangements	

Are all bunker hatchways, scuttles, stairways, and similar openings in the upper deck, whether within the deck erections or otherwise, provided with suitable covers and means for securing them watertight?	Yes
State if the Scupper draining erection spaces are led overboard or to the bilges, and if stern valves and plugs are fitted?	led to bilges

Are all ventilators substantially constructed and in good seaworthy condition?	Yes
Usual trade in which vessel is engaged.	Intended for South American Trade
Number of years for which it is recommended that a freeboard certificate should be granted having regard to the vessel's condition.	12 months closed vessel

FREEBOARD approved amidships from centre of disc to top of statutory deck line (steel) deck	3'-8"
Reduction for fresh water	5 1/2
" Indian Summer	4 1/2
Addition " Winter	4 1/2
" Winter North Atlantic	4 1/2

25 NOV 1936

Tropical Line  
Winter Line below  
Winter North Atlantic LineTropical  
Winter  
Winter North Atlantic


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# HATCHWAYS ON THE FREEBOARD DECK, AND THE DECKS OF ERECTIONS.

Number from forward		1	2	3	4	5	6	7
Position		Well deck	Well deck	Bridge deck	Bridge deck	Bridge deck		
Length x breadth		23.2 x 16.4	31.5 x 16.4	25.2 x 16.4	23.1 x 16.4	6.2 x 5.6	x	x
COAMINGS	Height above top of deck	3.0'	3.0'	3.0'	3.0'	3.0'		
	Thickness of sides	3/8"	3/8"	1/2"	1/2"	3/8"		
	" " ends	3/8"	3/8"	3/8"	3/8"	3/8"		
	Number and size of stays, if fitted	4 x 3/4 x 3 1/2 x 1/2" Channel						
	Condition of coamings	Good	Good	Good	Good	Good		
SHIFTING BEAMS OR WEB PLATES	Number	5	4	5	5	none		
	Spacing	equal	equal	equal	equal			
	Section and scantlings*		4 x 3 x 7/16 Ls	As No. 1.				
	Size of knees	1L 30						
	Material							
	Condition and fit							
	Bearing surface	2"						
FORE AND AFTERS	Number							
	Section and scantlings*							
	Material							
	Condition and fit							
	Are they in one length?							
	" iron shod?							
HATCH COVERS	Thickness	3 1/4"	As No. 1	As No. 1	As No. 1	As No. 1		
	Bearing surface at coaming	3"						
	" " fore and after	✓						
	Material	W. board						
	Condition and fit	Good						
	Are locking bars of wood fore and after fitted on top of covers?	Yes 2 3/8 x 3/8 P.N. Straps 5' x 3 1/4'						
Are the tarpaulins, cleats, battens and wedges in good condition?		Yes.						

\* Sketches of sections with figured dimensions of shifting beams, web plates and fore and afters are to be inserted, and it should be stated if the stops on the wood centre fore and afters are cut out of the solid wood or are nailed or screwed on. The sections of the fore and afters should be taken at their mid-length.

The position of the deck erections with the openings in their bulkheads, the engine and boiler casings, skylights, hatchways, companionways, &c., line of floors, tank top and peaks are to be shown below with figured dimensions.

