

Rpt. C.11.

Index. No. **30958**  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~  
having Freight and Poop and Bridge combined.

(Type of Superstructures.)

Ship's Name <b>T.S.S. MONOWAI</b>	Nationality and Port of Registry <b>British Greenock</b>	Official Number <b>147816</b>	Gross Tonnage <b>10852</b>	Date of Build <b>1925-2</b>
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Moulded Dimensions: Length Breadth Depth

Moulded displacement at moulded draught = 85 per cent. of moulded depth \_\_\_\_\_ tons

Coefficient of fineness for use with Tables \_\_\_\_\_

Port of Survey Sydney N.S.W.

Date of Survey 30 July and 1<sup>st</sup> 2<sup>nd</sup> and 4<sup>th</sup> August 1932.

Name of Surveyor Jas. C. Erskine Barton P. Fielden

Particulars of Classification +100 A1  
with fuel void.  
J.S. Lon No 1.30. Filled for oil fuel 2.25. FP. above 150°F.

<b>Depth for Freeboard (D)</b> Moulded depth ... .. Stringer plate ... .. Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = _____	<b>Depth correction</b> (a) Where D is greater than Table depth (D-Table depth) R = _____ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures _____	<b>Round of Beam correction</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$
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### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..					
„ overhang ... ..					
R.Q.D. enclosed ... ..					
„ overhang ... ..					
Bridge enclosed ... ..					
„ overhang aft ... ..					
„ overhang forward ... ..					
F'cle enclosed ... ..					
„ overhang ... ..					
Trunk aft ... ..					
„ forward ... ..					
Tonnage opening aft ... ..					
„ „ forward ... ..					
Total ... ..					

Standard Height of Superstructure \_\_\_\_\_

„ „ R.Q.D. \_\_\_\_\_

Deduction for complete superstructure \_\_\_\_\_

Percentage covered  $\frac{S}{L} =$  \_\_\_\_\_

„ „  $\frac{S_1}{L} =$  \_\_\_\_\_

„ „  $\frac{E}{L} =$  \_\_\_\_\_

Percentage from Table, Line A.  
(corrected for absence of forecable (if required)) \_\_\_\_\_

Percentage from Table, Line B.  
(corrected for absence of forecable (if required)) \_\_\_\_\_

Interpolation for bridge less than 2L (if required) \_\_\_\_\_

Deduction = \_\_\_\_\_

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..		1				1	
$\frac{1}{4}$ L from A.P. ... ..		4				4	
$\frac{2}{8}$ L „ ... ..		2				2	
Amidships ... ..		4				4	
$\frac{2}{8}$ L from F.P. ... ..		2				2	
$\frac{1}{4}$ L „ ... ..		4				4	
F.P. ... ..		1				1	
Total ... ..							

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

If limited on account of midship superstructure. \_\_\_\_\_

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. \_\_\_\_\_

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = _____ Ft. Summer freeboard = _____ Moulded draught (d) = _____ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____	<b>Deduction for Fresh Water.</b> 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 = _____	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient <table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Depth Correction ... ..</td><td></td><td></td></tr><tr><td>Deduction for superstructures ... ..</td><td></td><td></td></tr><tr><td>Sheer correction ... ..</td><td></td><td></td></tr><tr><td>Round of Beam correction ... ..</td><td></td><td></td></tr><tr><td>Correction for Thickness of Deck amidships ... ..</td><td></td><td></td></tr><tr><td>Other corrections, scantlings, etc. ... ..</td><td></td><td></td></tr></table> Summer Freeboard = _____		+	-	Depth Correction ... ..			Deduction for superstructures ... ..			Sheer correction ... ..			Round of Beam correction ... ..			Correction for Thickness of Deck amidships ... ..			Other corrections, scantlings, etc. ... ..		
	+	-																					
Depth Correction ... ..																							
Deduction for superstructures ... ..																							
Sheer correction ... ..																							
Round of Beam correction ... ..																							
Correction for Thickness of Deck amidships ... ..																							
Other corrections, scantlings, etc. ... ..																							

### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

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 „ „ ... ..

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
FORWARD			AFT			AFT			AFT	
Description of Hatchway	N°1	N°2	N°3	N°4	N°5	N°6	N°7	N°8	N°9	N°10
Dimensions of Hatchway	11'3" x 10'0"	10' x 12'	15' x 12'	15' x 12'	10' x 12'	11'3" x 10'0"	20'3" x 12'0"	10' x 12'	15' x 12'	10' x 12'
COAMINGS	Height above Deck	4'2"	3'0"	3'0"	3'0"	3'0"	4'2"	4'2"	4'2"	4'2"
	Thickness	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"
	Sides	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"
	Ends	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"	4'4"
HATCH BEAMS	Stiffeners	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"	7'3" x 3'5"
	Brackets, Stays	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"	6'3" x 1'4"
	Number	2	2	2	2	2	2	2	2	2
	Spacing	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
FORE AND AFTERS	Scantling and Sketch	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
	Bearing Surface	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
	Number	2	2	2	2	2	2	2	2	2
	Spacing	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
HATCH COVERS	Material	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
	Thickness	2'2"	2'2"	2'2"	2'2"	2'2"	2'2"	2'2"	2'2"	2'2"
	How fitted	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
	Bearing Surface	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"	3'9" x 1'4"
Spacing of Cleats	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"
Number of Tarpaulins	3	2	2	2	2	2	2	2	2	2

Particulars of fiddle, funnel and ventilator coamings:—  
 Fiddle, funnel and ventilator coamings of strong construction on erections on both decks.  
 Funnel coamings carried full height of funnels.  
 Ventilators will be supported and carried down within deck houses.  
 No permanent storm covers fitted.

Particulars of Flush Bunker Scuttles:—

None.

Particulars of Companionways:—

None.

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

Exposed Ventilators:— on fore-castle: 4'9", 1'10", 2'12"

In well:— 2'10"

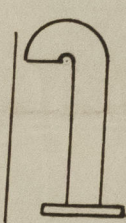
Coamings of each ventilator 3'6" high and

fitted with wood flaps and canvas covers.

Coamings riveted to deck.

No canvas ventilators on bridge or poop decks.

Ventilators to accommodate below superstructure deck of each room, oval section, 11" x 3 1/2", 7" x 3 1/2", 5" x 3 1/2"  
 on fore-castle and in well, 3'6" in height and fitted with canvas covers.  
 on bridge deck, 3'2" in height.



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

section and 3" diameter.

on fore-castle and in well, 3'6" in height and fitted with canvas covers.

on bridge deck, 3'2" in height.

Efficient closing appliances provided.

Particulars of Gangway Cargo and Ceiling Ports:—

Gangway Doors, each side, one forward and one aft:— openings 5'9 1/2" x 3'6"

on shell 6" x 3 1/2" x 1/2" angles. Frame on door 5" x 3 1/2" x 1/2" angles.

secured by 2-6" x 3 1/2" strong bolts, and 8-1" bolts. Fitted with rubber gaskets.

on each side amidships. Opening 5'9 1/2" x 1'10"

on shell 6" x 6" x 1/2" angle. Frame on door 4" x 3 1/2" x 1/2" angle.

secured by 3-6" x 3 1/2" channel strong bolts and 6-1" bolts. Fitted with rubber gaskets.

on fore-castle and in well, 3'6" in height and fitted with canvas covers.

on bridge deck, 3'2" in height.

MONOWAL

Particulars of Scuppers and Sanitary Discharge Pipes — Scuppers from exposed decks, 6" dia. with brass bands.

Scuppers from spaces, below fore and deck and from within enclosed superstructures fitted

with automatic non return valves with positive means of closing from above fore and deck.

Sanitary Discharge Pipes fitted with two automatic non return valves, the upper valves immediately

below fore and deck in accessible positions and can be examined from above fore and deck.

all valves bronze. Lowest outlet 14'0" below fore and deck.

Particulars of Side Scuttles: Above Fore and Deck:— In fore-castle, 12" dia. with hinged dead lights.

In Bridge Space, 14" dia. without dead lights. In Poop, 12" dia. without dead lights.

In Upper Deck:— Forward, in main spaces, 12" dia. with hinged dead lights. Amidships, 16" dia.

in Dining Saloons, fitted with flaps. 14" dia. with hinged dead lights in accommodation and

bulb. In Lower Deck:— In way of N°3 hatch, 6-10" dia. each side. In way of N°2 hatch, first side only, 3-10" dia.

all fitted with hinged dead lights. all side scuttles bronze. Bill of lowest side scuttle

9'3" below fore and deck at side amidships.

Particulars of Guard Rails:—

on Fore-castle:— 3 bar rails, 3'4 1/2" in height.

on Bridge Deck and Poop:— 4 bar rails and high top rail, 3'4" in height.

Particulars of Gangways, Lifelines, etc.:—

N°2 hatchway practically full length of well. Lifelines rigged when required.

## Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	None.					
Forward Well	32'0"	4'3"	3'6" by 1'6"	3	15'75' #	9'4' #

State position of each freeing port (F. and A. position and height above deck edge) { After Well: 1'4" x 3'6" by 1'6" → 3'6" → 7'4" → 3'6" → 6'0" → Aft.  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Fitted with 4 horizontal bars, no shutters.  
 Additional area where sheer is less than standard. Height above deck edge 11".

## Particulars of Superstructures, Trunks, Casings, Deckhouses.

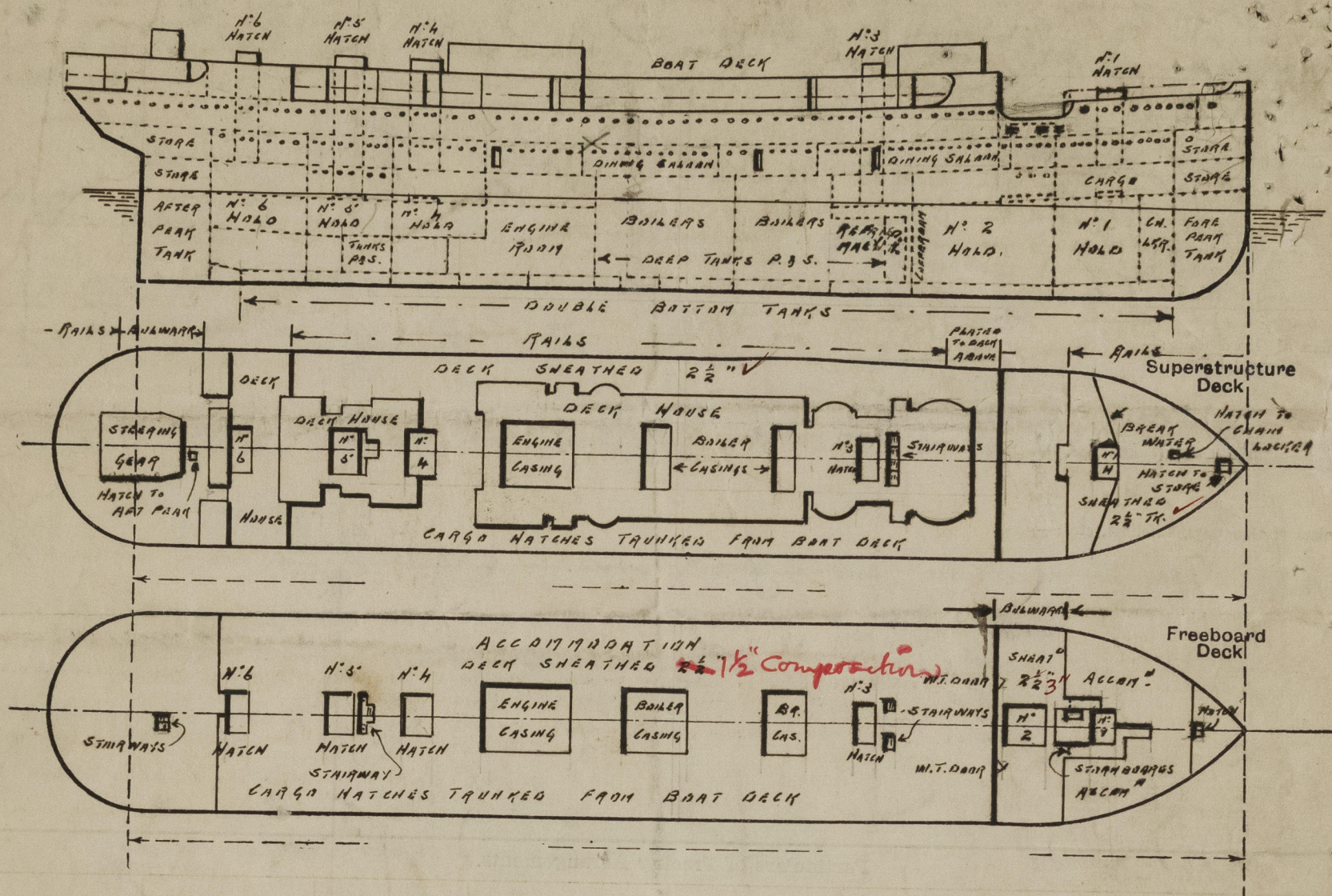
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	3'2"	3'2"	2'2" x 2'2" x 3'2"	2'0"	None	None		5'6"
Raised Quarter Deck Bulkhead								5'6"
Bridge, After Bulkhead	3'2"	3'2"	2'2" x 2'2" x 3'2"	2'0"	BRACKETED TO RA	4'4" x 3'11"	3'9" x 2'4"	9'0"
Bridge, Forward Bulkhead	4'4"	4'4"	3'2" x 3'2" x 4'4"	3'0"	4'0" x 3'2" x 4'4"	5'6" x 2'9"	1'3"	8'6"
Fore-castle Bulkhead	2'2"	2'2"	2'2" x 2'2" x 3'2"	2'0"	None	5'6" x 2'9"	None	5'6"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free-board or Raised Quarter Decks								
Exposed Machinery Casings on Super-structure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	3"	3"	3'2" x 3'2" x 3'2"	3'0"	None	None		8'6"
Deckhouses on Fore-castle Deck	3"	3"	4'4" x 3'2" x 3'2"	4'0"	LAPPED TO BARS 6" x 2'8" TO AT TOP	5'9" x 2'5"	9'10" x 10"	9'0"

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	None
Raised Quarter Deck Bulkhead	None
Bridge, After Bulkhead	One slab door in center, 1'6" thick with 4'2" x 3'2" frame. Rubber gasket.
Bridge, Forward Bulkhead	3'2" x 3'2" glass window at side of door. Wedge handles - manipulated from inside only.
Fore-castle Bulkhead	2'2" x 2'2" slab door with rubber gasket. Secured by wedge handles manipulated from inside only.
Exposed Machinery Casings on Free-board or Raised Quarter Decks	2'2" x 2'2" slab doors - riveted channels 6" in height. Open fore-castle
Exposed Machinery Casings on Super-structure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	None
Deckhouses on Fore-castle Deck	Wood framed doors 1 1/2" thick in recesses and sketched positions. 6'0" x 2'8" to 3'9" x 2'5". Capable of being manipulated from both sides.



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:—

*Passenger and cargo vessel.*

Usual trade between Sydney N.S.W. and San Francisco, via ports.  
Now surveyed in dry dock without including any portion of special survey.  
On superstructure deck, in line with bridge front, a mild steel shelter is fitted forward of bridge house with steel water tight door and heavy glass windows. Shelter carried along sides of vessel for a length of 20 feet.

Hatchways on Superstructure Decks:— On forecastle deck, to fore peak, one hatch 3'0" x 3'0", 8" coaming 5" thick. Hinged steel cover 38", with rubber joint and secured by 8 - 3/4" screws. Max. spacing 18".  
On forecastle deck, trunked to chain locker, one hatch 1'6" by 1'6", 6" coaming 5" thick. Hinged steel cover 38", with rubber joint. Secured by 5 - 3/4" screws.

On poop, trunked to after peak, one hatch 2'3" by 2'3", coaming 18 1/2" high, 38" thick. Wood cover 2 3/8" thick, hatch rests 2 3/8". Chats spaced 16" apart 2 timpanis, battens and wedges.

Hatchway on Freeboard Deck:— Within forecastle, to fore peak, one hatch 3'0" by 3'0", 8" bulb angle coaming. 2 1/2" wood hatches, 2 1/2" hatch rest. No chats fitted.

Builder's name and yard number *Harland and Wolff, Ltd. N° 659.*

Names of sister ships

Owners *Union S. S. Co. of New Zealand, Ltd.*

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