

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 19 OCT 1932  
 Index. No. 22654  
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
 having *Combined Poop & Bridge and Forecastle*

(Type of Superstructures.)

Ship's Name **"AUSTRALIA"** Nationality and Port of Registry *British London* Official Number *136740* Gross Tonnage *7550.6* Date of Build *1912-12*

Moulded Dimensions: Length *482.33* Breadth *62.46* Depth *32.12*  
 Moulded displacement at moulded draught = 85 per cent. of moulded depth *17700* tons  
 Coefficient of fineness for use with Tables *756*

Port of Survey *Falmouth*  
 Date of Survey *17/10/32*  
 Name of Surveyor *Reilly, J. H. Rundle*  
 Particulars of Classification *+100A1*  
*S.S. 7al. No. 8-10. 25*  
*S.S. 7al. No. 1-29*

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	32.08	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	62.46
Stringer plate	.06	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	14.99
ing on exposed deck $\left(\frac{L-S}{L}\right) =$		(32.15 - 32.12) 3.0 = -.09		Ship's Round of Beam	15
Depth for Freeboard (D) =	32.12	If restricted by superstructures		Difference	.01
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L})$	$\frac{.01^2}{4} \times 1.225 = .0003$

## 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	871.8	343.10	8'2"		343.10
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward	79.55	79.55			79.55
F'cle enclosed	80.8		8'2"		
" overhang	1.25	.62			.62
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	452.60	423.27			423.27

Standard Height of Superstructure 7.50

" " R.Q.D.

Deduction for complete superstructure 42.00

Percentage covered  $\frac{S}{L} = 93.81$ "  $\frac{S_1}{L} = 87.75$ "  $\frac{E}{L} = 87.75$ 

Percentage from Table, Line A. (corrected for absence of fore-castle (if required)) 84.91

Percentage from Table, Line B. (corrected for absence of fore-castle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = - 35.67

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	58.23	1	58.23	131.5	71.00	1	71.00
$\frac{1}{2}$ L from A.P.	25.91	4	103.64	67	26.86	4	107.44
$\frac{3}{4}$ L	6.40	2	12.80	17.25	6.71	2	13.42
Amidships		4				4	
$\frac{3}{4}$ L from F.P.	12.81	2	25.62	5.5	16.78	2	33.56
$\frac{1}{2}$ L	51.82	4	207.28	26	67.14	4	268.56
F.P.	116.46	1	116.46	72.2	130.00	1	130.00
Total			524.03				623.98

 Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{99.95}{18} = 5.55$   
 If limited on account of midship superstructure.
If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

 Depth to Freeboard Deck = 32.12  
 Summer freeboard = 5.42  
 Moulded draught (d) = 26.70

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.67

## Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

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=  $6\frac{3}{4}$ 

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

 $756 + .68 = 1436$  $\frac{1.36}{1.36}$ 

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. ...

Summer Freeboard = 65.10

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

Tropical Fresh Water Line above Centre of Disc	13 $\frac{1}{2}$ "	Tropical Fresh Water Freeboard	5' - 5"
Fresh Water Line	6 $\frac{3}{4}$ "	Fresh Water	4' - 3 $\frac{1}{2}$ "
Tropical Line	6 $\frac{3}{4}$ "	Tropical	4' - 10 $\frac{1}{4}$ "
Winter Line below	6 $\frac{3}{4}$ "	Winter	4' - 10 $\frac{1}{4}$ "
Winter North Atlantic Line	6 $\frac{3}{4}$ "	Winter North Atlantic	5' - 11 $\frac{1}{4}$ "

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Forecastle F. Well - Bridge Dk - Bunker									
Description of Hatchway	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Side	after
Dimensions of Hatchway	No.1	No.2	No.3	No.4	No.5	No.6	No.7	Numbers	Stores
COAMINGS									
Height above Deck	38 1/2"	59"	35 1/2"	34 1/2"	35 1/2"	35 1/2"	35"	4 1/2" x 4 1/2"	29 1/2"
Thickness	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	8 1/2"	38 1/2"
Stiffeners	4"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	7 1/2" x 3 1/2"	30 1/2"
Brackets, Stays	2 Bkts Fore	2 Bkts on						30 1/2" high	Strong
	End.	Sides						3 1/2" thick	wood
HATCH BEAMS								3 1/2" Wood	Cover
Number	3	5	5	3	3	3	3	1 1/2" Beams	1 1/2" Sliding
Spacing	5 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	21" Cleats	Panel
Scantling and Sketch	4 x 3 x 4 1/2"	Plate	Plate	Plate	Plate	Plate	Plate	2 Tarps	18" Cleats
Bearing Surface	3"	3"	3"	3"	3"	3"	3"	1 1/2" Beams	2 Tarps
Lud Dk								4 1/2"	30 1/2" x 4 1/2"
Number								9 1/2" BA	20 1/2" x 30"
Spacing								3 1/2" BA	9 1/2" BA
Unsupported Lengths								3 1/2" BA	30 1/2" x 4 1/2"
Scantling and Sketch	Trunk							3 1/2" BA	30 1/2" x 4 1/2"
Bearing Surface								3 1/2" BA	30 1/2" x 4 1/2"
HATCH COVERS								3 1/2" BA	30 1/2" x 4 1/2"
Material								3 1/2" BA	30 1/2" x 4 1/2"
Thickness								3 1/2" BA	30 1/2" x 4 1/2"
How fitted								3 1/2" BA	30 1/2" x 4 1/2"
Bearing Surface								3 1/2" BA	30 1/2" x 4 1/2"
Spacing of Cleats								3 1/2" BA	30 1/2" x 4 1/2"
Number of Tarpaulins								3 1/2" BA	30 1/2" x 4 1/2"

\*Are wood fore and afters steel shod at all bearing surfaces? *yes*  
 Are battens and wedges efficient and in good condition? *yes*  
 Are tarpaulins in good condition and in accordance with rule requirements? *yes*  
 Are lashings provided in accordance with rule requirements? *yes*

Particulars of fiddle, funnel and ventilator coamings: *Stokehold gratings covered by hinged steel plates*  
*Engine Room, Messroom, & Forecastle skylights of steel strongly constructed*  
*Funnel & fiddle ventilators efficient*

Particulars of Flush Bunker Scuttles: *none*

Particulars of Companionways: *Companion to lower forecastle from alleyway, double hinged wood doors manipulated both sides - 19" sill*  
*Stokehold doors, double hinged doors of steel manipulated both sides 18" sill*  
*Engine Room doors, hinged wood manipulated both sides 18" sill*  
*and a double hinged steel door*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks: *Bridge Dk. 17 1/2" dia 50" high to holds.*  
*F. Well Dk. 19 1/2" dia 36" high 7/16" thick*  
*2 - 8" " 36" " 3/16" " F. Well*  
*1 - 8" " 9" " 3/16" " F. Well*  
*4 - 22" " 44" " 3/8" " - NO hold.*  
*7 - 4" " 9" " wood plugs fitted*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks: *Bridge Dk. 8 1/2" 3" diam 2" to opening 20 per sketch*  
*1 1/2" 3 1/2" dia 15" high*  
*1 1/2" 3 1/2" " 12" "*  
*4 1/2" 4" " 10" to 28" high*  
*4 1/2" 3" " 10" to 28" high*

Particulars of Gangway Cargo and Coaling Ports: *none.*

Deck Scuppers. 17 1/2" in F. Well disched. 9 1/2" on Bridge-Poop deck through deck  
 Particulars of Scuppers and Sanitary Discharge Pipes: *Sanitary Discharges: 17 1/2" 3ft below Main deck 27 1/2" 6ft below main deck. Storm valves fitted*  
*Midships: 17 1/2" 3ft below deck storm valves fitted - 17 1/2" 3ft ejectors 3ft below main deck. Storm valves fitted*  
*Aft: 17 1/2" 3ft below deck and 17 1/2" 3ft above deck. Storm valves fitted*  
*Discharges from bath 72 are above main deck no valves fitted*

Particulars of Side Scuttles: *1 Starboard in lower fore 10" dia 3ft below main deck. Hinged glass & deadlight*  
*Side Scuttles in forecastle & poop have hinged glasses & deadlights*

Particulars of Guard Rails: *F. Well Dk. 4 Rails & Stanchions - 3'2" high 4'6" apart*  
*Bridge & Aft " " " - 3'6" " 4'6" "*

Particulars of Gangways, Lifelines, etc.: *none fitted*

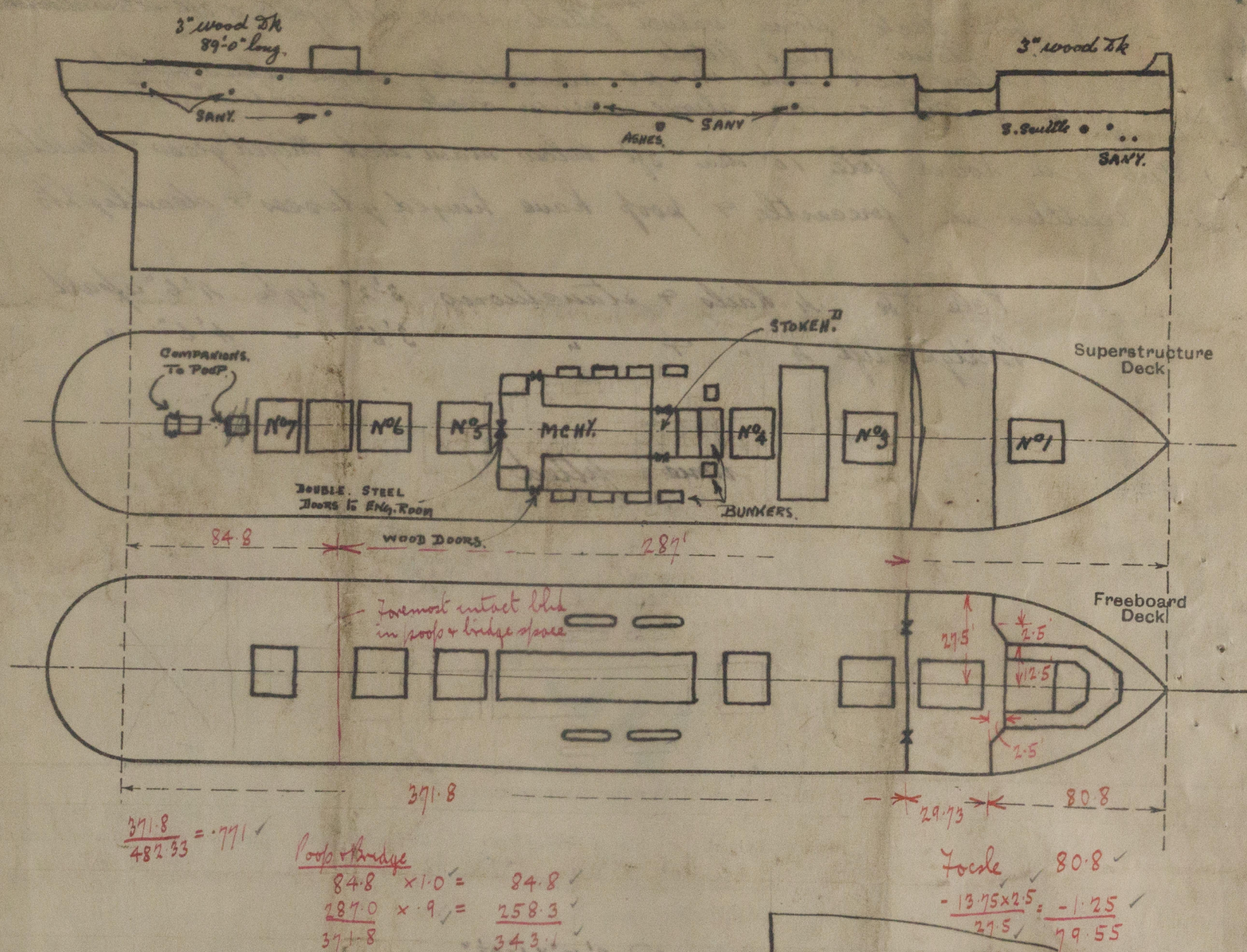
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well						
Forward Well	30'-0"	4'-6"	2 @ 2'-10" x 1'-4 1/2" 1 @ 3'-4" x 1'-4 1/2"		11.2 sq ft	9.5 sq ft
State position of each freeing port (F. and A. position and height above deck edge) After Well: <i>15" above deck. Hinged shutters &amp; 1 bar.</i> Forward Well: <i>15" above deck. Hinged shutters &amp; 1 bar.</i> State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: Additional area where sheer is less than standard.						

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	✓							
Raised Quarter Deck Bulkhead	✓							
Bridge, After Bulkhead	✓							
Bridge, Forward Bulkhead	1/2"	3/8"	9 x 3 1/2" BA	27"	Bkts F. & A.	4'-6" x 3'-6"	19"	8'-2"
Forecastle Bulkhead	✓	3/8"	flanged 3 1/2"	4'-6"	none	See sketch		8'-2"
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	✓							
Exposed Machinery Casings on Superstructure Decks in way of Stokehold entrance	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓	1/4"	5' x 3' BA	2'-6"	none	3'-11" x 1'-9"	16"	8'-2"
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	✓
Bridge, Forward Bulkhead	3" storm boards in riveted channels full height - with steel covering plates bolted through boards. See sketch page 4.
Forecastle Bulkhead	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	✓
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

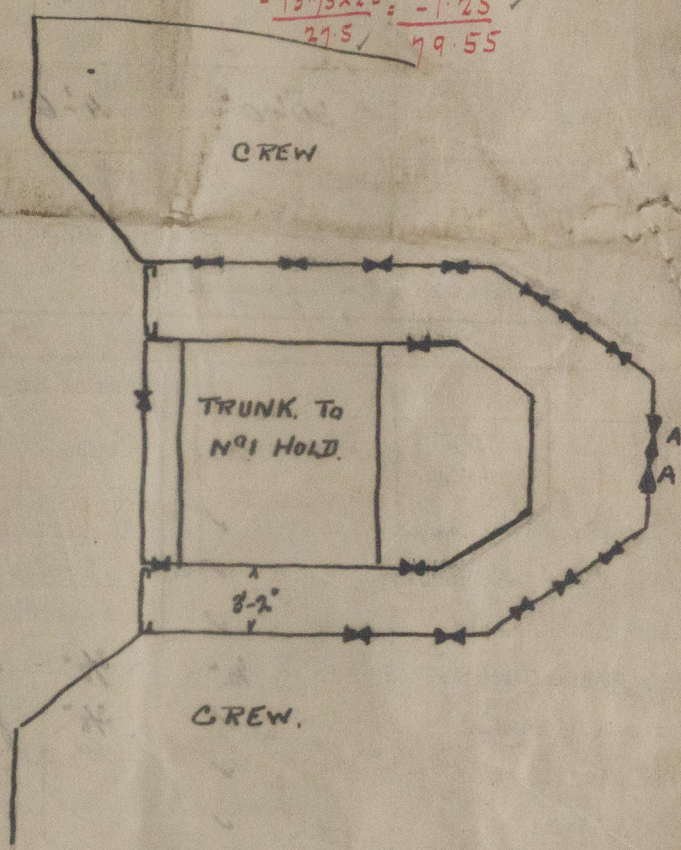


Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

3" Riveted channels 5'-2" high are fitted at alley way entrances 22" sill  
No storm boards provided  
all doors to accommodation—  
Wood. 4'-10" x 2'-0" x 22" sill.  
Double wood doors marked A. are  
Companions to lower forecabin stores  
opening 4'-10" x 2'-9" 19" sill



Builder's name and yard number *Flensburg. Schiffsb. Ges. Flensburg.*

Names of sister ships *stated to be Sister to "Tasmania" 72796 R.B.*

Owners *British India Steam Nav. Co. Ltd.*

Fee £ *15* : *6* : *0*

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