DISCLASSED SECTION NC

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362

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having 1 Deck (steel).

Poop, Bridge and Forecastle.
(Type of Superstructures.)

Port of Survey SYDNEY N.S.W.

Date of Survey 17th & 26th October 1932.

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

Particulars of Classification ✠ 100 A.1. 55 Syd. No. 2.26.

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
~~SHING-HO~~ BARUNGA.	~~BRITISH~~ Chinese ~~AUCKLAND~~ Tsingtao	142734	4342	1918 - 10

Moulded Dimensions: Length 379·66 Breadth 49·25 Depth 30'-1½"

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

Coefficient of fineness for use with Tables .... Sister not done

Depth for Freeboard (D)

Moulded depth ... ...

Stringer plate ... 0·57" ... ...

Sheathing on exposed deck $T\left(\frac{L-S}{L}\right) =$

Depth for Freeboard (D) =

Depth correction

(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

Round of Beam correction

Moulded Breadth (B)

Standard Round of Beam = $\frac{B \times 12}{50}$ =

Ship's Round of Beam = 12"

Difference

Restricted to

Correction = $\frac{Diff^{ce}}{4} \times \left(1-\frac{S_1}{L}\right)$ =

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
Poop enclosed	29'-6"		8'-0"		
„ overhang					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed	102'-0"		8'-0"		
„ overhang aft ...	3'-0"		8'-0"		
„ overhang forward					
F'cle enclosed	40'-6"		8'-0"		
„ 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 forecastle (if required))

Percentage from Table, Line B. (corrected for absence of forecastle (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	
$\frac{1}{6}$L from A.P. ...		4				4	
$\frac{2}{6}$L „ ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$L from F.P. ...		2				2	
$\frac{1}{6}$L „ ...		4				4	
F.P.		1				1	
Total ...							

$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}$ =

$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}$ =

$\frac{\text{Length of enclosed superstructure}}{L}$ forward of amidships =

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18}\left(\cdot75-\frac{S}{2L}\right)$ =

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck =

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) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\triangle$ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\triangle}{40T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

	+	−
Correction for coefficient		
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc.		

Summer Freeboard =

1908 freeboards reassigned at owners request.

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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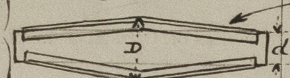
PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

	← FREEBOARD DECK					→		SUPERSTRUCTURE DECK		
Description of Hatchway	No 1	No 2	No 3	No 4	No 5	No 6		No 3		
Dimensions of Hatchway	29'-9" x 20'-0"	30'-0" x 20'-0"	15'-0" x 20'-0"	18'-0" x 20'-0"	24'-0" x 20'-0"	29'-9" x 20'-0"		14'-0" x 20'-0"		
COAMINGS — Height above Deck	37"	37"	11"	37"	37"	37"		37"		
COAMINGS — Thickness, Sides	·5	·5	·5	·5	·5	·5		·5		
COAMINGS — Thickness, Ends	·4	·4	·4	·4	·4	·4		·4		
COAMINGS — Stiffeners	8" BULB ANGLE		NONE.	8" BULB ANGLE.				8" Bulb Angle		
COAMINGS — Brackets, Stays	2 EACH SIDE & AT FORWARD END.		NONE.	1 EACH SIDE 2 EACH END	2 ON SIDES & ENDS.	2 EACH SIDE 2 AFT END.		1 EACH SIDE.		
HATCH BEAMS — Number	5	5	2	3	4	5		2.		
HATCH BEAMS — Spacing	4'-11½"	5'-0"	5'-0"	4'-6"	4'-9½"	4'-11½"		4'-8"		
HATCH BEAMS — Scantling and Sketch	ALL DOUBLE ANGLES 4" x 3" x ·46"									
	PLATE — ALL BEAMS ·36									
D	17¾	17¾"	14"	17¾"	17¾"	17¾"		13½"		
d	9¼	9¼"	7½"	9¼"	9¼"	9¼"		7"		
HATCH BEAMS — Bearing Surface	3"	3"	3"	3"	3"	3"		3"		
FORE AND AFTERS — Number / Spacing / Unsupported Lengths / Scantling* and Sketch / Bearing Surface				NONE.						
HATCH COVERS — Material				WOOD						
HATCH COVERS — Thickness				2½"						
HATCH COVERS — How fitted				FORE & AFT						
HATCH COVERS — Bearing Surface				2½"						
Spacing of Cleats				24"						
Number of Tarpaulins				2						



*Are wood fore and afters steel shod at all bearing surfaces?
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 fiddley, funnel and ventilator coamings :— *On top of casings on Bridge Deck.*
Engine Room fitted with strong steel skylight.
Fidley gratings fitted with steel storm covers permanently attached.
Funnel casing carried full height of funnel.
Ventilators of strong construction, well supported and passing through machinery casings.

Particulars of Flush Bunker Scuttles :—

None.

Particulars of Companionways :—

None.

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

On Forecastle.	*3 - 9" dia*	*coamings 36" in height.*	*All supplied with wood plugs and canvas covers.*
In Fore Well.	*8 - 20" dia.*	*coamings 36" in height.*	
In After Well.	*8 - 20" dia*	*coamings 36" in height.*	
On Poop.	*2 - 9" dia*	*coamings 33" in height.*	

Particulars of Air Pipes in exposed positions on freeboard, ~~raised quarter, or~~ superstructure decks :—
On forecastle and poop; air pipes of cast iron swan neck type, 3" dia, height 17", height to opening 12".
In wells: air pipes of mild steel swan neck type, 3" dia., height 4'-0", height to opening 3'-5".
All air pipes fitted with wood plugs.

Particulars of Gangway Cargo and Coaling Ports :—

None.

Particulars of Scuppers and Sanitary Discharge Pipes —

Scuppers from superstructure decks fitted with open bends discharging above freeboard deck.
Sanitary discharges from deck houses on bridge deck each fitted with one bronze automatic storm valve discharging above freeboard deck.
Sanitary discharges from forecastle and poop each fitted with one cast iron automatic storm valve; discharges from forecastle 4'-0" and from poop 2'-0" below freeboard deck.

Particulars of Side Scuttles: In Forecastle: 9" dia side scuttles without deadlights.
In Poop: 10" dia side scuttles with hinged cast iron deadlights.

No side scuttles below freeboard deck.

Particulars of Guard Rails:—

On Superstructures: 3-bar rails 3'-4" in height.
In Wells: Bulwarks 4'-4" in height.

Particulars of Gangways, Lifelines, etc.:—

Efficient life lines rigged in fore and after wells 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	119'-0"	4'-4"	34½" × 19"	6	27·3 sq. ft.	23·8 sq. ft.
Forward Well	88'-8"	4'-4"	34½" × 19"	4	18·2 sq. ft.	17·73 sq. ft.

State position of each freeing port ... ... (F. and A. position and height above deck edge)
After Well :— A |< 11'-0" >|□|< 16'-6" >|□|< 15'-6" >|□|< 16'-3" >|□|< 14'-9" >|□|< 10'-0" >|□|< 17'-9" >| F
Forward Well :— A |< 15'-0" >|□|< 14'-5" >|□|< 15'-3" >|□|< 16'-6" >|□|< 16'-0" >| F

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :— Hinged shutter and 3 horizontal bars.

Additional area where sheer is less than standard. Ports varying from 9" to 15" above deck edge.

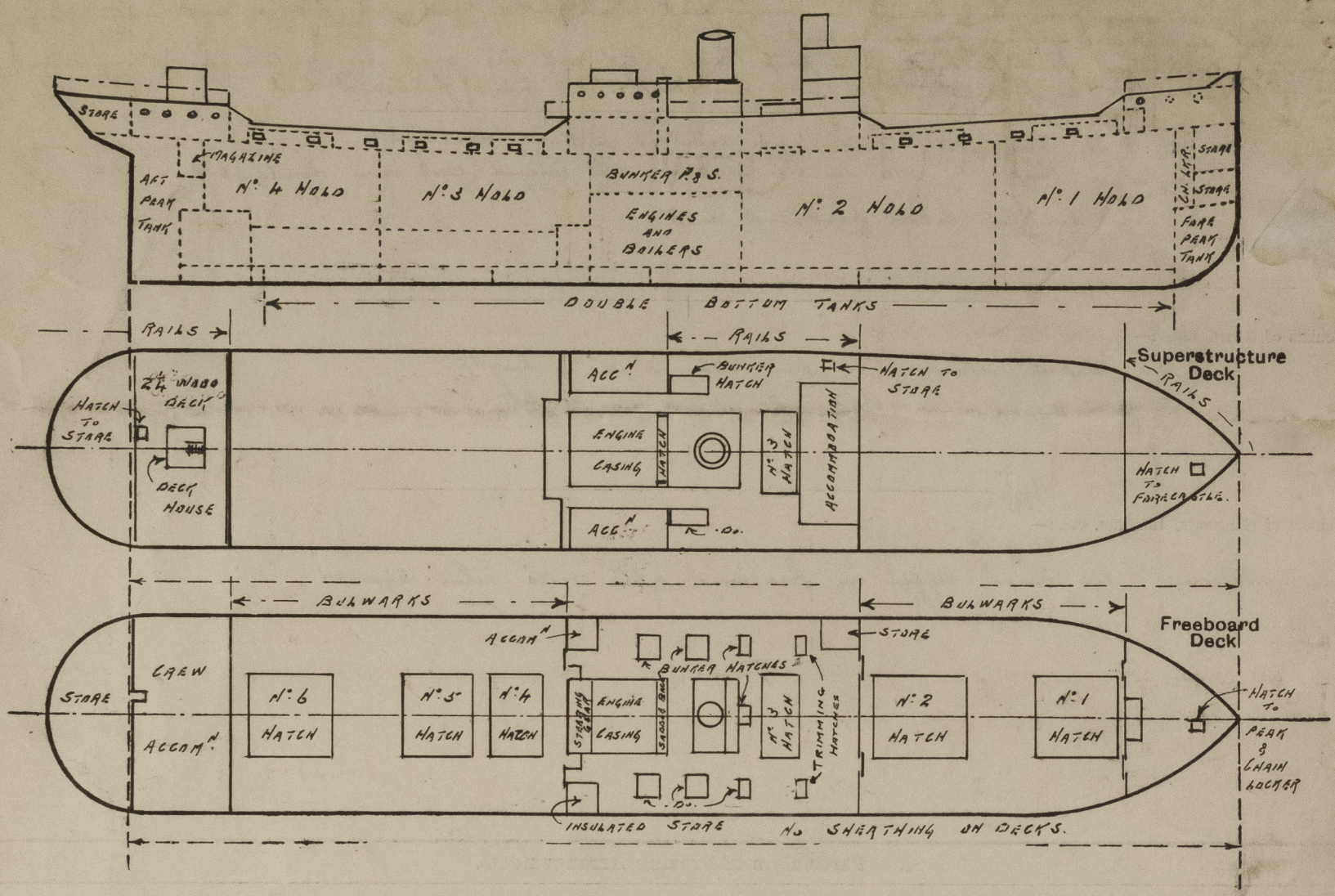
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	·44	·38	6 × 3½ × ·5 L	30"	None.	None.		8'-0"
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead	·44	·44	4 × 3 × ·38 L	31"	None.	~~4'-9" × 3'-0" P.S.~~ 4'-9" × 3'-3" S.S.	23"	8'-0"
Bridge, Forward Bulkhead	·44	·44	8 × 3½ C	30"	Brackets top & bottom.	5'-0" × 3'-6"	15"	8'-0"
Forecastle Bulkhead	·38	·38	4 × 3 × ·38 L	30"	None.	4'-9" × 3'-3"	21½"	8'-0"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks	·32	·25	4 × 3 × ·38 L	36"	Brackets at top	5'-10" × 2'-0"	18"	7'-2"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	·32	·28	4 × 3 × ·38 L	36"	None.	5'-2" × 2'-0"	18½"	8'-0"
Deckhouses on ~~Bridge~~ Superstructure Deck, ~~Ships~~ ...	·40	·25	4 × 3 × ·38 L	39"	Brackets at top	5'-0" × 2'-4"	16"	7'-6½"

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

Poop Bulkhead	No openings.
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	2¾" shifting boards full height of opening on starboard side, hardwood door 1⅝" thick on port side, can be manipulated both sides.
Bridge, Forward Bulkhead	Hinged steel doors ·38" thick with screw fastenings on outside.
Forecastle Bulkhead	2¾" shifting boards in channels riveted to bulkhead, full height of opening.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	
Exposed Machinery Casings on Superstructure Decks	Hinged steel doors ·32" thick. Can be manipulated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	Hinged steel doors ·32" thick. Can be manipulated from both sides.
Deckhouses on ~~Bridge~~ Superstructure Decks, ~~Ships~~ ...	1¾" framed wood doors. Can be 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 :— Cargo vessel usually trading between Australian ports. Now surveyed afloat in conjunction with part Special Survey.

Hatches on Superstructure Decks:

On Forecastle Deck - To fore peak: 3'-0" × 3'-0". Coaming 7½" × ·32. Bolted steel cover ·32" thick.

On Poop Deck. - To store: 2'-6" × 2'-6". Coaming 15" × ·33. 2½" wood cover. 2½" bearing surface. Cleats, battens & tarpaulins.

On Bridge Deck. - To store. 2'-3" × 1'-9". Coaming 16½" × ·44. 2½" wood cover. 2½" bearing surface. Cleats, battens & tarpaulins.

Bunker Hatches (p & s). 11'-1" × 3'-5". Coaming 18" × ·46. 2½" wood hatches. 2½" bearing surface. Cleats, battens & tarpaulins.

Hatches on Freeboard Deck.

In Forecastle. - To fore peak: 3'-5" × 3'-5". 3" angle coaming. 2½" wood cover. No battening arrangements.

In Poop. - To magazine: 3'-0" × 2'-0". 3" wood coaming. 2" wood cover. 1⅝" bearing surface. No battening arrangements.

In Bridge. Trimming hatches (one each side) 2'-6" × 2'-0". Coaming 9" × ·38. Bolted steel covers ·38" thick.

Bunker Hatches: One each side 3'-8½" × 2'-6½"
Two each side 6'-0" × 4'-0"
One at centre 4'-0" × 2'-6"
} Coamings 10½" × ·38
2½" wood hatches with 2⅛" bearing surface.
Fitted with cleats, battens and tarpaulins.

Builder's name and yard number Canadian Vickers Ltd. Montreal. Yard No. 64

Names of sister ships Baldina.

Owners The Adelaide Steamship Co. Ltd.

Fee £ 16 : 2 : 0 Received by me