

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. 27085.
(For London Office only.)

AUG 25 1937.

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having **Poop, bridge and forecastle.**

Port of Survey **Kobe.**

(Type of Superstructures.)

Date of Survey **19th July, 1937.**

Ship's Name
s/s "SHING HO"

Nationality and Port of Registry
**Chinese
Tsingtao**

Official Number
1758

Gross Tonnage
4351

Date of Build
1918 10mo

Name of Surveyor **Y. Jo.**

Moulded Dimensions: Length Breadth Depth

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

Coefficient of fineness for use with Tables _____

Particulars of Classification *** 100 A.1.**

Depth for Freeboard (D)
Moulded depth
Stringer plate
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 = _____
Difference _____
Restricted to _____
Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure _____
" overhang						" " R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure _____
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang						Interpolation for bridge less than 2L (if required)
Trunk aft						Deduction = _____
" forward						
Tonnage opening aft						
" " forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P.		1				1		Mean actual sheer aft = Mean standard sheer aft =
$\frac{1}{6}$ L from A.P.		4				4		Mean actual sheer forward = Mean standard sheer forward =
$\frac{2}{6}$ L "		2				2		Length of enclosed superstructure forward of amidships = $\frac{L}{L}$
Amidships		4				4		" " aft of " =
$\frac{2}{6}$ L from F.P.		2				2		
$\frac{1}{6}$ 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. _____

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
 $\Delta =$
Tons per inch immersion at summer load water line
T = _____
Deduction = $\frac{\Delta}{40T}$ 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 _____

Notes
S.P.B.
26-8-37.
Jules 16-11-37

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 " "	

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	{	Height above Deck	...						
		Thickness { Sides	...						
		{ Ends	...						
		Stiffeners	...						
		Brackets, Stays	...						
HATCH BEAMS	{	Number	...						
		Spacing	...						
		Scantling and Sketch	...						
		Bearing Surface	...						
FORE AND AFTERS	{	Number	...						
		Spacing	...						
		Unsupported Lengths	...						
		Scantling* and Sketch	...						
		Bearing Surface	...						
HATCH COVERS	{	Material	...						
		Thickness	...						
		How fitted	...						
		Bearing Surface	...						
Spacing of Cleats	...								
Number of Tarpaulins	...								

*Are wood fore and afters steel shod at all bearing surfaces?

Are battens and wedges efficient and in good condition?

Are tarpaulins in good condition and in accordance with rule requirements?

Are lashings provided in accordance with rule requirements?

Particulars of fiddle, funnel and ventilator coamings :—

Particulars of Flush Bunker Scuttles :—

Particulars of Companionways :—

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

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

Particulars of Gangway Cargo and Coaling Ports :—

Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles :

Particulars of Guard Rails :—

Particulars of Gangways, Lifelines, etc. :—

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

State position of each freeing port ... } After Well :—
(F. and A. position and height above deck edge) } Forward Well :—

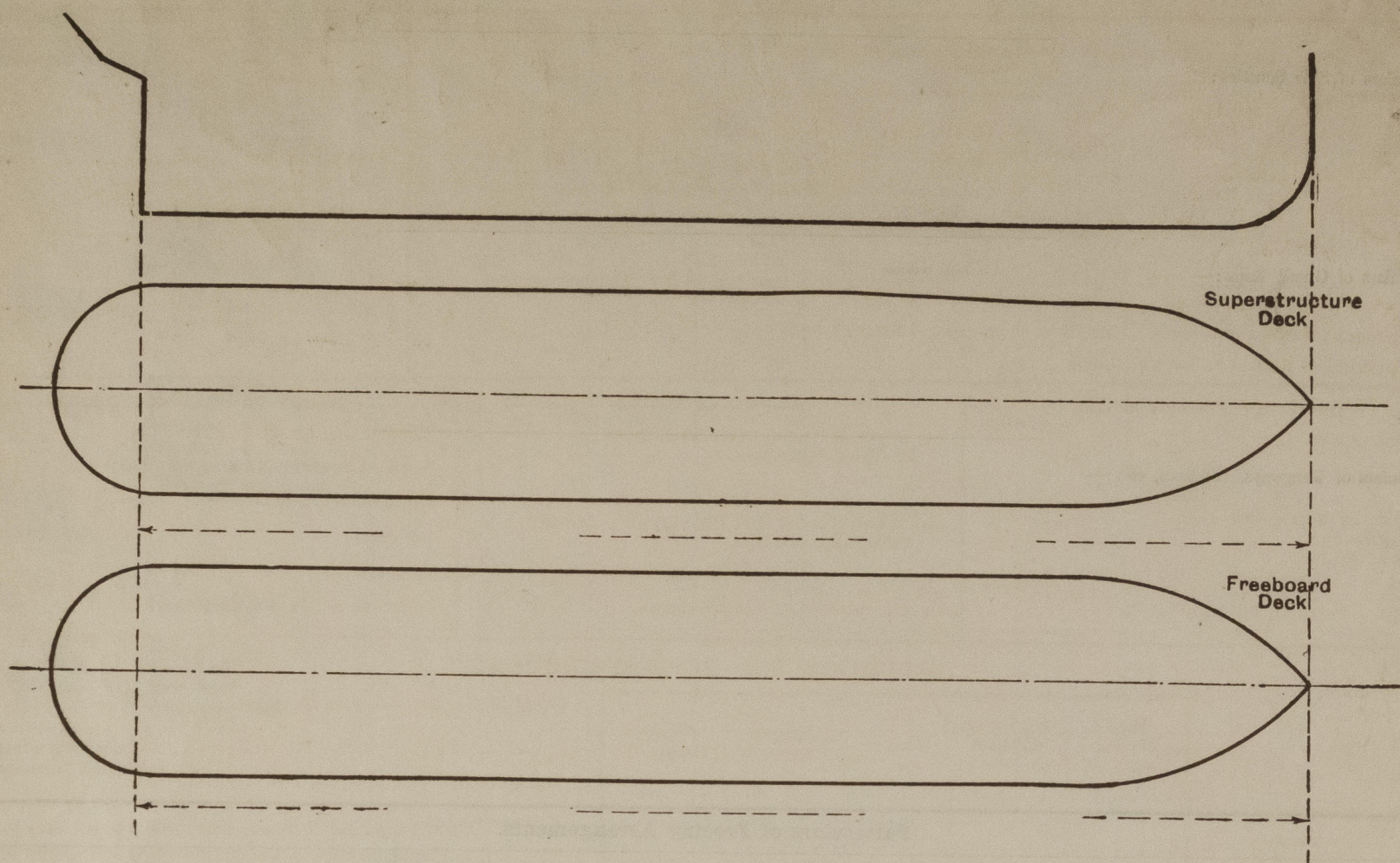
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :—

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
Forecastle Bulkhead
Trunk, Aft
Trunk, Forward
Exposed Machinery Casings on Freeboard or Raised Quarter Decks
Exposed Machinery Casings on Superstructure Decks
Machinery Casings within Superstructures not fitted with Class I Closing Appliances
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	...
Forecastle Bulkhead	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...
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:—

Vessel now surveyed for Timber Freeboard in accordance with the regulations and the Secretary's cable dated 13th July, 1937.

Nos. 2 & 7 double bottom tanks have been divided on the middle line, Nos. 3, 4, 5 & 6 tanks were already divided. New sounding pipe fitted in No. 7 tank in shaft tunnel on port side.

The bulwark 4'-6" high have been examined and found of strong construction, with stays fitted 5'-2" apart at or near the beams.

Steering is effected by means of rods and chains on weather deck, these have been efficiently protected by strong stays. Alternative steering is effected by hand gears on poop deck.

Eye plates for lashing have been riveted to the sheer strake in the wells at intervals of 10'-0" or less, the ends being 3'-6" from the bulkheads.

Sockets for upright have been fitted.

Timber freeboard marks cut in and verified as per attached verification form.

Y. Jo.

Builder's name and yard number

Names of sister ships

Owners

Fee £ : : :

Received by me



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Foundation