

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey <u>Newcastle</u>	
having <u>Poop-bridge & forecastle</u>					Date of Survey <u>28th Nov. 1934</u>	
(Type of Superstructures.)					Name of Surveyor <u>P. Horndale</u>	
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification <u>+100 A1.</u>	
<u>"HARDINGHAM"</u>	<u>British London</u>	<u>163310</u>	<u>5415</u>	<u>1933-2</u>		
Moulded Dimensions: Length	Breadth	Depth				
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons						
Coefficient of fineness for use with Tables _____						
Depth for Freeboard (D)			Depth correction		Round of Beam correction	
Moulded depth			(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	
Stringer plate			(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50} =$	
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$			If restricted by superstructures		Ship's Round of Beam =	
Depth for Freeboard (D) =					Difference	
					Restricted to	
					Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	

DEDUCTION FOR SUPERSTRUCTURES.

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

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual sheer aft =
A.P.		1					1			Mean standard sheer aft =
$\frac{1}{8}L$ from A.P.		4					4			Mean actual sheer forward =
$\frac{2}{8}L$ "		2					2			Mean standard sheer forward =
Amidships		4					4			Length of enclosed superstructure forward of amidships =
$\frac{3}{8}L$ from F.P.		2					2			" " aft of " =
$\frac{1}{8}L$ "		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.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) = _____

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.

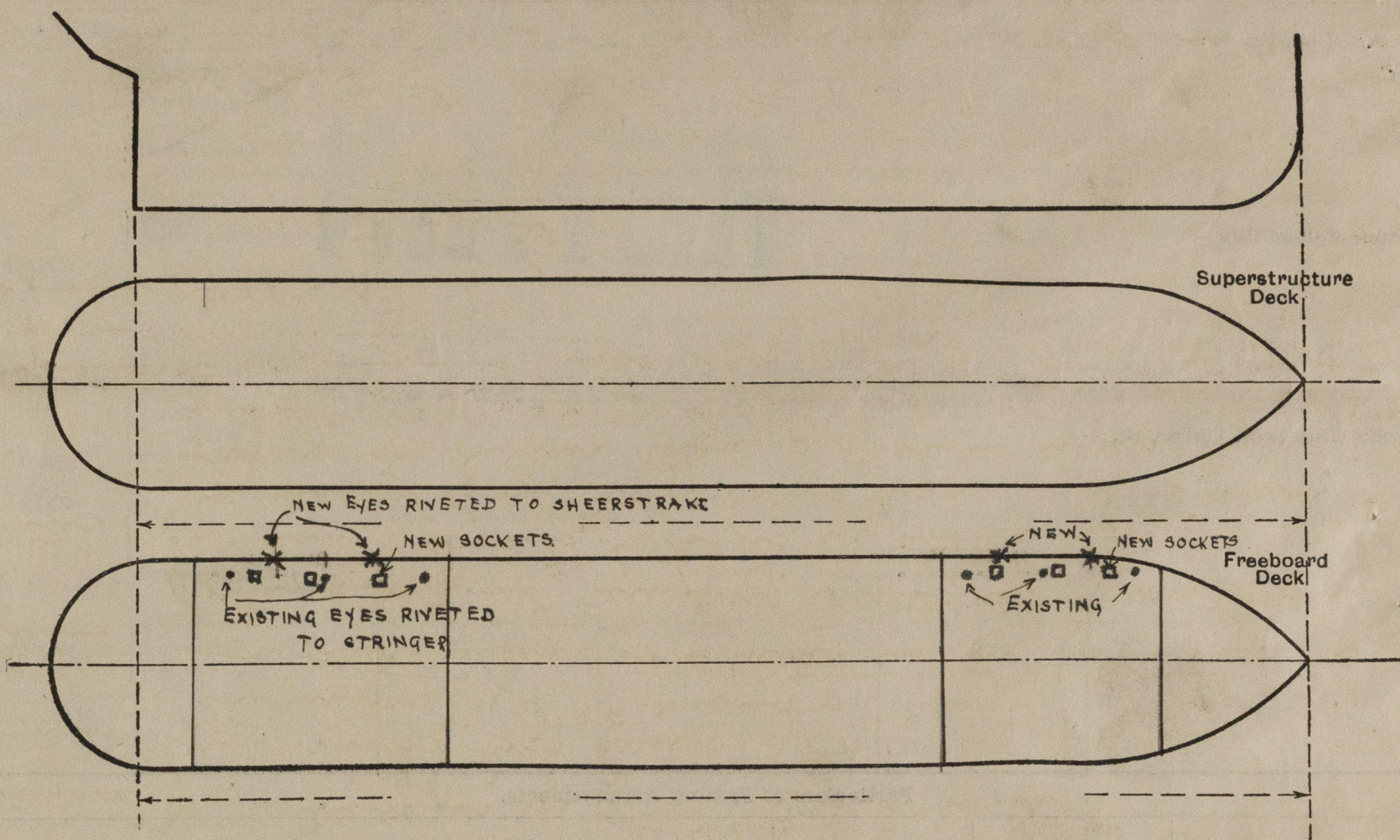
Summer Freeboard = _____

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

Tropical Fresh Water Line above Centre of Disc
Fresh Water Line " "
Tropical Line " "
Winter Line below " "
Winter North Atlantic Line " "Tropical Fresh Water Freeboard
Fresh Water " "
Tropical " "
Winter " "
Winter North Atlantic " "

Hardingham

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:—

Timber Assignment Required

Rule 86:- Poop. bridge & foils fitted. ✓

Rule 88:- The centre girder in Nos 2 & 5 tanks is 10/T. ✓

Rule 89:- Bulwarks 4'0" high Rail 6" x 3" B.A. ✓
Stanchions 7" x 38" B.P. spaced 6'0" apart.

Rule 90:- steam steering gear is situated in the poop space (telemotor)
No hand gear but relieving tackles led to poop winch.

Rule 91:- Eye plates & sockets fitted as per sketch above.
The spacing of eye plates varies from 7'6" to 8'6" while no
end eye is further than 6'6" from superstructure
bulkhead. ✓

Notes S.T.B
1.12.32.

Builder's name and yard number

Lithgows Ltd.

Names of sister ships

Owners

W. Ellis & Co. Ltd.

Fee £

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Received by me

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