

# Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

WS08-0055-1/2

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>POOP, BRIDGE &amp; FUNNEL</u>					Date of Survey _____
(Type of Superstructures.)					Name of Surveyor _____
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification _____
LYNGENFJORD	Norwegian Oslo		5873	1913/3	
Moulded Dimensions: Length		Breadth	Depth		
Moulded displacement at moulded draught = 85 per cent. of moulded depth		12130		tons	
Coefficient of fineness for use with Tables		.767			

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	29.17	(a) Where D is greater than Table depth (D - Table depth) R =	+ 6.09	Moulded Breadth (B)	
Stringer plate	.04	(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) =	29.21			Difference	
				Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right)$	= - .05

## 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					
Funnel enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure	7.50
" " R.Q.D.	
Deduction for complete superstructure	42.0
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	49.24
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	TIMBER 68.77
Interpolation for bridge less than 2L (if required)	
Deduction =	28.88

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
1/4 L from A.P.		4				4	
3/4 L		2				2	
Amidships		4				4	
3/4 L from F.P.		2				2	
1/4 L		4				4	
F.P.		1				1	
Total							

Mean actual sheer aft =  
Mean standard sheer aft =

Mean actual sheer forward =  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =  
" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  - 3.25

If limited on account of midship superstructure.

If limited to maximum allowance of 1 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 = 29.21 Summer freeboard = 4.37 Moulded draught (d) = 24.84 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.21 = 6 1/4	<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 Plush Deck (if required) Correction for coefficient <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td>6.09</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td>28.88</td> </tr> <tr> <td>Sheer correction</td> <td></td> <td>3.25</td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td>.05</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> </tbody> </table>		+	-	Depth Correction	6.09		Deduction for superstructures		28.88	Sheer correction		3.25	Round of Beam correction		.05	Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.		
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Timber SUMMER FREEBOARD amidships from ~~Centre of Disc~~ to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	26 1/4" = 66 7/8"	Tropical Fresh Water Freeboard	4' 4 1/2" = 1338"
Fresh Water Line	20" = 508"	" Fresh Water	3' 4" = 1016"
Tropical Line	20" = 508"	" Tropical	3' 10 1/4" = 1175"
Winter Line	5 1/2" = 140"	" Winter	3' 10 1/4" = 1175"
Winter North Atlantic Line	5" = 127"	" Winter North Atlantic	5' 0 3/4" = 1543"
			5' 11 1/4" = 1810"

1m, 632.

4 JUN 1933

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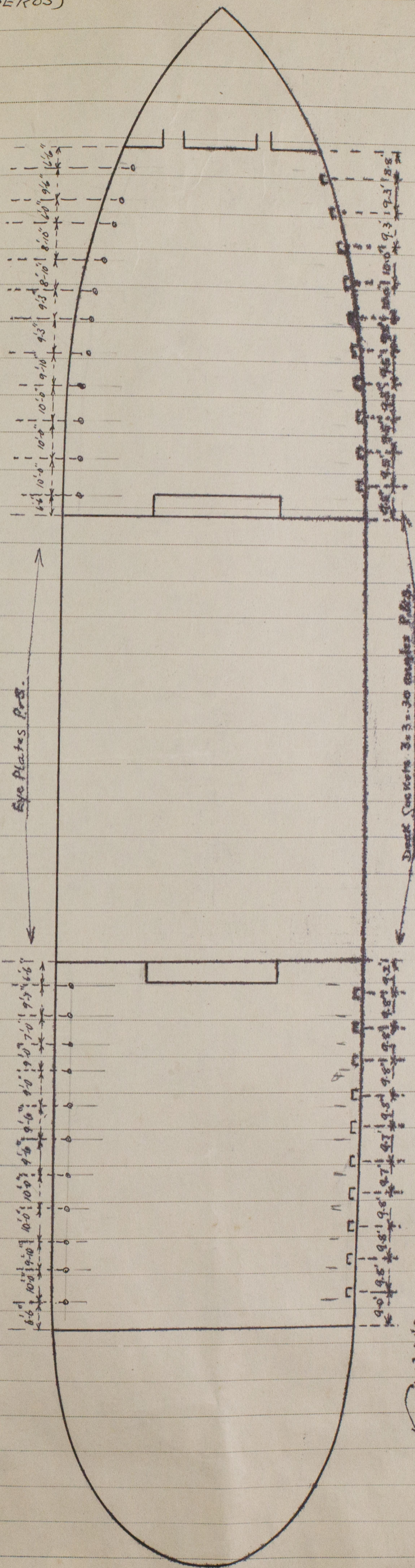
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Lloyd's Register Foundation

# TIMBER FREEBOARD REPORT



Drawing Pins on lines in Pops with heart added to lower top.  
 \* Celestine Cabot & bridge  
 Steel Clamps provided 5 for in the limit and on way of weights.

