

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker-
having a complete superstructure with tonnage opening
(Type of Superstructures.)

Port of Survey _____
Date of Survey 4/4/22

Ship's Name Levington Court Nationality and Port of Registry _____ Official Number _____ Gross Tonnage _____ Date of Build 1923

Name of Surveyor _____
Particulars of Classification + 100A-1 with flag

Moulded Dimensions: Length 395.35 Breadth 53.0 Depth 27.0
Moulded displacement at moulded draught = 85 per cent. of moulded depth 10690 tons
Coefficient of fineness for use with Tables .778 22.95 = .85

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	27.0	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	53.0
Stringer plate	.04	(27.04 - 26.38) 3		Standard Round of Beam = $\frac{B \times 12}{50}$	12.72
Sheathing on exposed deck	-	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	+.207	Ship's Round of Beam	13.0
$T \left(\frac{L-S}{L} \right) =$				Difference	.28
Depth for Freeboard (D) =	27.04	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.28}{4} \times \left(1 - \frac{13.0}{53.0} \right) = .28 \times .75 = .21$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure	
Poop enclosed	22.80	22.80	9.0	-	22.80	7.45
" overhang						R.Q.D.
R.Q.D. enclosed						
" overhang						
Bridge enclosed	362.92	362.92	9.0	-	362.92	
" overhang aft						
" overhang forward						
F'cle enclosed						
" overhang						
Trunk aft						
" forward						
Tonnage opening aft	9.63	4.81			4.81	
" forward						
Total	395.35	390.58			390.58	

Percentage covered $\frac{S}{L} = 100\%$
 $\frac{S_1}{L} = 98.78$
 $\frac{E}{L} = 98.78$

Percentage from Table, Line A. (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. 98.50 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required)
 Deduction = $41.69 \times .985 = - 41.07$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual shear aft	Mean standard shear aft
A.P.	49.5	1	49.5	49.5	60.0	186.78	1	78.60	78.60	1.55	
$\frac{1}{2}L$ from A.P.		4			26.07	32.98	4	139.92	139.92	1.86	
$\frac{3}{4}L$		2			6.52	8.65	2	17.30	17.30		
Amidships		4					4				
$\frac{3}{4}L$ from F.P.		2			11.06	13.27	2	26.54	26.54		
$\frac{1}{2}L$		4			44.24	53.67	4	214.68	214.68		
F.P.	99.0	1	99.0	99.0	102.0	120.6	1	120.60	120.60		
Total			445.5					597.64			

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{152.14}{18} \left(.75 - \frac{50}{125} \right) = - 2.12$

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.778 + .62}{1.26} = \frac{1.458}{1.26}$
Depth to Freeboard Deck = 27.04	$\Delta =$	70.06
Summer freeboard = 2.83	Tons per inch immersion at summer load water line	75.10
Moulded draught (d) = 24.21	T = 41.6	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.05	Deduction = $\frac{\Delta}{40T}$ inches =	
Addition for Winter North Atlantic Freeboard (if required) =		
		Depth Correction ... 2.07
		Deduction for superstructures ... 41.07
		Sheer correction ... 2.12
		Round of Beam correction ...
		Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		2.07 43.19 - 41.12
		Summer Freeboard = 33.98

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— 2-10

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

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. :-

	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.

	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								

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:—

Builder's name and yard number

Names of sister ships

Owners

Fee £ : : Received by me