

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

19802

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey <i>Swansea</i>	
having					Date of Survey <i>25th May 1933</i>	
(Type of Superstructures.)					Name of Surveyor <i>J. S. Sellar</i>	
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification <i>+100 ft</i>	
" <i>CITY OF LYONS</i> "	<i>Bidigh Liverpool</i>	<i>147353</i>	<i>7063</i>	<i>1926-2</i>		
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 = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$

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.
F'cle enclosed						(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction =
" " 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 =
$\frac{1}{4}$ L from A.P.		4					4			Mean standard sheer aft =
$\frac{3}{4}$ L "		2					2			Mean actual sheer forward =
Amidships		4					4			Mean standard sheer forward =
$\frac{3}{4}$ L from F.P.		2					2			Length of enclosed superstructure forward of amidships =
$\frac{1}{4}$ L "		4					4			" " aft of " =
F.P.		1					1			
Total										

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

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Depth to Freeboard Deck = Ft.	Displacement in salt water at summer load water line	Correction for coefficient
Summer freeboard =	$\Delta =$	Depth Correction
Moulded draught (d) =	Tons per inch immersion at summer load water line	Deduction for superstructures
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	T =	Sheer correction
Addition for Winter North Atlantic Freeboard (if required) =	Deduction = $\frac{\Delta}{40 T}$ inches =	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	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "

City of Lyons

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	upper Deck N ^o 1	N ^o 2	3A			
Dimensions of Hatchway	...	...	...	27'-0" x 18'-1"	42'-0" x 18'-1"	30'-0" x 18'-0"			
COAMINGS	{	Height above Deck	...	19'-"	19'-"	19'-"			
		Thickness	{	75	75	75			
		Sides	...	45	45	45			
		Ends	...	45	45	45			
Stiffeners	...	BA	12 x 3 1/2 x 60	12 x 3 1/2 x 60	12 x 3 x 3 1/4				
Brackets, Stays	...	5 x 3 x 50, 0A	2	4	2				
HATCH BEAMS	{	Number	...	5	7	4			
		Spacing	...	4'-6"	5'-3"	5'-"			
		Scantling and Sketch	...	15' x 3 3/5"	16 1/2' x 3 3/5"	19' x 3 3/8"			
		Sketch	...	Plate	15' x 3 3/5"	16 1/2' x 3 3/5"	19' x 3 3/8"		
Bearing Surface	...	...	3	3	4"				
	...	...	...	3	3	4"			
FORE AND AFTERS	{	Number	...						
		Spacing	...						
		Unsupported Lengths	...						
		Scantling* and Sketch	...	None	None	None			
Bearing Surface	...	...					
HATCH COVERS	{	Material	...	White wood	White wood	Wood			
		Thickness	...	2 1/4"-2 1/2"	2 1/4"-2 1/2"	3"			
		How fitted	...	F 9 9	F 9 9	F 1 A			
		Bearing Surface	...	8"	8"	3"			
Spacing of Cleats	...	...	22' x 2 1/4"	22' x 2 1/4"	24"				
Number of Tarpaulins	...	...	2	2	3				
*Are wood fore and afters steel shod at all bearing surfaces? <i>Yes</i>									
Are battens and wedges efficient and in good condition? <i>Yes</i>									
Are tarpaulins in good condition and in accordance with rule requirements? <i>Yes</i>									
Are lashings provided in accordance with rule requirements? <i>✓</i>									

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 :—



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