

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "Vic 79" YARD N ^o 342	Official Number 166696	Nationality and Port of Registry BRITISH Lowestoft.	Gross Tonnage 132	Date of Build 1944	Port of Survey IPSWICH
Moulded Dimensions: Length 75'-10" Breadth 20'-0" Depth 9'-6"					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth 258 tons					Surveyor's Signature <i>Joy Bell</i>
Coefficient of fineness for use with Tables .7					Particulars of Classification 100 A.1 COASTAL SERVICES - LIMITS TO BE DEFINED.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 9.5'	(a) Where D is greater than Table depth (D-Table depth) R = $(9.52 - 5.32) \cdot 614 = + 2.58$	Moulded Breadth (B) 20'
Stringer plate30	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 4.8''$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = NONE
Depth for Freeboard (D) = 4.52		Difference 4.8''
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4.8}{4} \times \frac{50.42}{75} = +.60$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	6'-6"	6.50	6'-0"	✓	6.50
" overhang	✓		7'-3"		
R.Q.D. enclosed	19'-3"	19.25	3'-0"	✓	19.25
" overhang	✓		6'-9"		
Bridge enclosed	✓				
" overhang aft	✓				
" overhang forward	✓				
F'cle enclosed	13'-10"	13.83	7'-0"	✓	13.83
" overhang	✓				
Trunk aft	✓				
" forward	✓				
Tonnage opening aft	✓				
" " forward	✓				
Total	39.58	39.58			39.58

Standard Height of Superstructure	6.0
" " R.Q.D.	3.0
Deduction for complete superstructure	13.98
Percentage covered $\frac{S}{L} =$	} 49.58
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	31.64
(corrected for absence of forecastle (if required))	✓
Percentage from Table, Line B.	✓
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	$13.98 \times 31.64 = - 4.42$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	17.98	1		17.98	✓	↑	1		↑
1/4 L from A.P.	8.00	4		32.00	✓	↑	4		↑
3/4 L "	1.98	2		3.96	✓	↑	2		↑
Amidships	-	4		-	✓	NIL	4		NIL
3/4 L from F.P.	3.96	2		7.92	✓	↓	2		↓
1/4 L "	16.00	4		64.00	✓	↓	4		↓
F.P.	35.97	1		35.97	✓	↓	1		↓
Total				161.83					NIL

Mean actual sheer aft	} NIL
Mean standard sheer aft	
Mean actual sheer forward	} NIL
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships =	} NIL
" " aft of " =	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{161.83}{18} \left(.75 - \frac{39.58}{75} \right) = + 4.51$
 If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft. -

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	7.98
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{70 + 68}{1.36} = \frac{1.38}{1.36}$	8.10
Depth to Freeboard Deck = 9.52 Ft.	Δ =	Depth Correction	2.58
Summer freeboard = .94	Tons per inch immersion at summer load water line	Deduction for superstructures	- 4.42
Moulded draught (d) = 8.58	T =	Sheer correction	4.51
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4	Deduction = $\frac{\Delta}{40 T}$ inches = 2"	Round of Beam correction60
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		Summer Freeboard =	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	Not assigned	Tropical Fresh Water Freeboard	0 - 11 1/4
Fresh Water Line " "	2"	Fresh Water " "	9 1/4
Tropical Line " "	not assigned	Tropical " "	
Winter Line below " "	2 1/4"	Winter " "	1 1/2
Winter North Atlantic Line " "	not assigned	Winter North Atlantic " "	

