

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>VIC 76</b>	Official Number ✓ 180531	Nationality and Port of Registry BRITISH <i>London</i>	Gross Tonnage ✓ 132	Date of Build 1944	Port of Survey IPSWICH
Moulded Dimensions: Length 79'-10" Breadth 20'-0" Depth 9'-6"					Date of Survey 26-9-44
Moulded displacement at moulded draught = 85 per cent. of moulded depth 258 tons					Surveyor's Signature <i>Joyrell</i>
Coefficient of fineness for use with Tables .700 ✓					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 = $(9.52 - 5.37) \times 614 = + 2.58$		Moulded Breadth (B)	20'
Stringer plate ...	.02' 30	(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) =	9.52			Difference	4.8
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{4.8^2 \times 5042}{4} = + .60$

DEDUCTION FOR SUPERSTRUCTURES.				
Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	6.6"	6.50	6.0	6.50
" overhang ...				
R.Q.D. enclosed ...	19.3"	19.25	3.0	19.25
" overhang ...				
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	↑
$\frac{1}{2}L$ from A.P. ...	8.00	4	32.00	✓	↑	4	↑
$\frac{1}{4}L$ " ...	1.98	2	3.96	✓	Nil	2	Nil
Amidships ...	-	4	-	✓	Nil	4	Nil
$\frac{3}{4}L$ from F.P. ...	3.96	2	7.92	✓	↓	2	↓
$\frac{1}{2}L$ " ...	16.00	4	64.00	✓	↓	4	↓
F.P. ...	35.97	1	35.97	✓	↓	1	↓
Total ...			161.83				Nil

  

Mean actual shear aft  
Mean standard shear aft = } Nil

Mean actual shear forward  
Mean standard shear forward = } Nil

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

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{161.83 (-75 - 2479)}{18 \cdot 5021} = + 4.51$   
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>Deduction for Fresh Water.</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required)	7.98
<b>Addition for Winter and Winter North Atlantic Freeboard.</b>	Displacement in salt water at summer load water line Δ = Tons per inch immersion at summer load water line T = Deduction = $\frac{\Delta}{40 T}$ inches = 2"	Correction for coefficient $\frac{.70 + .68}{1.36} = \frac{1.38}{1.36}$	8.10
Depth to Freeboard Deck = 9.52 Ft.		Depth Correction ...	2.58
Summer freeboard = .94		Deduction for superstructures ...	- 4.42
Moulded draught (d) = 8.58		Sheer correction ...	4.51
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4		Round of Beam correction ...	.60
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships ...	-
		Other corrections, scantlings, etc. ...	-
		7.69	4.42
		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	Nil assigned	Tropical Fresh Water Freeboard	0 - 11 1/4"
Fresh Water Line	" "	Fresh Water	" 0 - 9 1/4"
Tropical Line	" "	Tropical	" "
Winter Line below	" 2 1/4"	Winter	" 1 - 1 1/2"
Winter North Atlantic Line	" "	Winter North Atlantic	" "

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship COASTING

Names of sister ships "VIC 77", "VIC 78"

Builder's name and yard number THE ROWHEDGE IRONWORKS CO. LD. ROWHEDGE. YARD N° 655

Owners ADMIRALTY

Fee £ Charge with P&Fees



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Foundation